



让机器人造福全人类

梦想起航 携手共赢
Dream set sail hand in hand
win-win situation

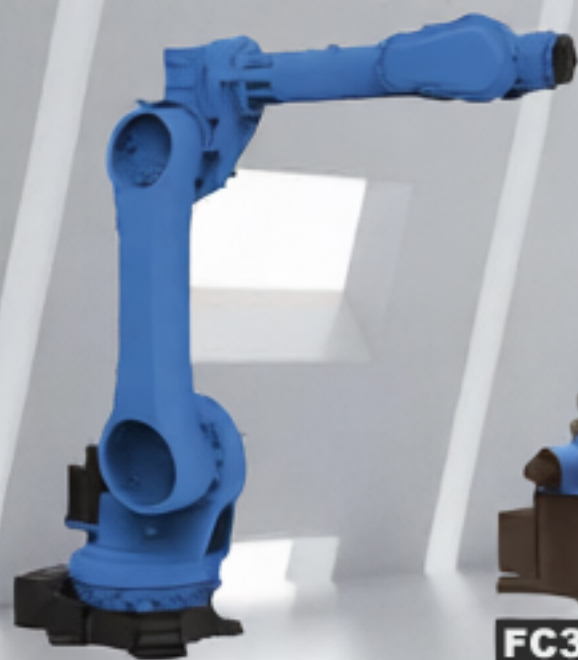


Shenzhen Forchip Technology Co. LTD



Scan
WeChat





FC100-2100



FC30-1900



FC25-1800



FC12-2500



FC10-1850



FC10-1800



FC15-1100



FC6-900



FC2-600



FC1-400



FCB15-1500



FC7-700



FC4-540

企业简介 Enterprise Brief Introduction

FORCHIP ROBOT THE SPIRIT OF ENTERPRISE

Shenzhen Forchip Technology Co., Ltd. is committed to the research and development of industrial robots, focusing on the research and development of core technologies. It is an independent production enterprise in the industrial robot industry that integrates research and development, production, sales, and after-sales service. The company focuses on product research and development, adheres to independent innovation, holds multiple patents, breaks the history of the industry being monopolized by countries such as Japan, Europe and America, and changes from Made in China to Created in China. The core backbone of the company has years of practical experience in intelligent manufacturing and robotics, and has mastered key core technologies in robot research and development design, production technology solutions, and other fields. At the same time, it has a deep technical accumulation in intelligent manufacturing. The company's main theme is "Setting Sail from Dreams, Joining Hands for Win", providing customers with high-quality products, professional services, and complete robot application solutions, working hand in hand with customers for mutual benefit.





FCB10-1000

Product Introduction

The robot features a compact and lightweight design, offering advantages such as simplified structure, low failure rate, easy operation, low energy consumption, small footprint, and fast cycle time. Its hollow wrist wiring reduces the risk of interference between wiring and surrounding devices, providing adaptability and easier access to confined areas. The powerful wrist load capacity allows it to easily complete handling, palletizing, and stamping tasks.

Product Features

1. User-friendly, easy-to-learn stamping process interface
2. Stable performance
3. Elegant design with built-in cables/air hoses
4. High speed and high precision
5. Compact design with minimal footprint
6. Lower energy consumption, saving 30% more electricity than comparable models

10kg

Maximum load

975mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Palletizing

High-speed, high-repeatability positioning accuracy, space-saving palletizing process packages, simple and fixed automation.

Metal Stamping

High speed, high repeatability, small footprint, easy to maneuver in confined spaces. Stamping program template, easy to learn and use.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FCB10-1000	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	4	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+35 ~ -85°
	J3	+60 ~ -60°
	J4	±360°
最大速度 Axis Max. speed	J1	444°/s, 7.74rad/s
	J2	297°/s, 5.18rad/s
	J3	360°/s, 6.28rad/s
	J4	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	10kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	
	J6	
最大工作半径 Max. reach	975 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ8*1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.3kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	4M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	60 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1: 安装场所因手腕负荷质量变化。

*2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3: 依据“JIS B 8432”。

*4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1: This value varies from the installed position and the wrist load mass.

*2: Note that wrist moment of inertia varies depending on wrist load conditions.

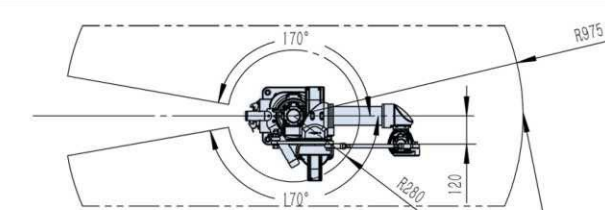
*3: JIS B 8432 compliant.

*4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

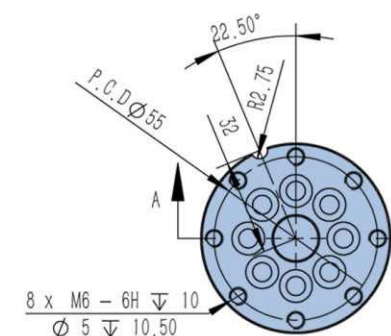
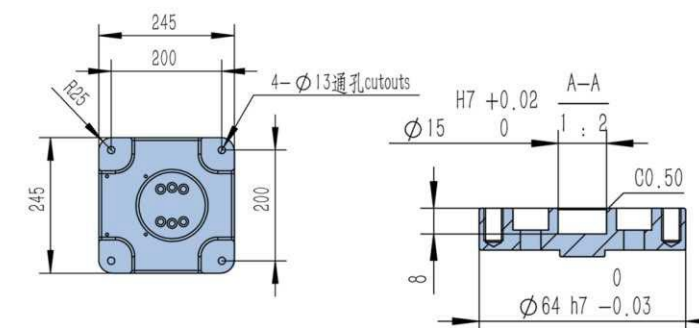
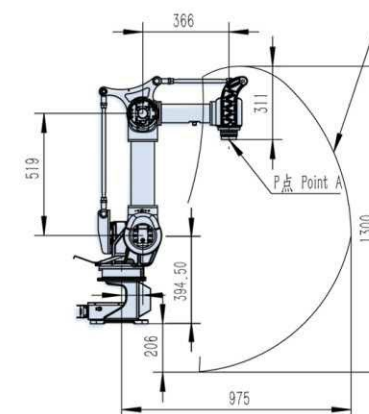
*5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



P点运动范围 Point A LOCUS





FCB6-1400

Product Introduction

The robot features a compact and lightweight design, offering advantages such as simplified structure, low failure rate, easy operation, low energy consumption, small footprint, and fast cycle time. Its hollow wrist wiring reduces the risk of interference between wiring and surrounding devices, providing adaptability and easier access to confined areas. The powerful wrist load capacity allows it to easily complete handling, palletizing, and stamping tasks.

Product Features

1. User-friendly, easy-to-learn stamping process interface
2. Stable performance
3. Elegant design with built-in cables/air hoses
4. High speed and high precision
5. Compact design with minimal footprint
6. Lower energy consumption, saving 30% more electricity than comparable models

6kg
Maximum load

1401mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Palletizing

High-speed, high-repeatability positioning accuracy, space-saving palletizing process packages, simple and fixed automation.

Metal Stamping

High speed, high repeatability, small footprint, easy to maneuver in confined spaces. Stamping program template, easy to learn and use.

技术指标

TECHNICAL INDICATORS

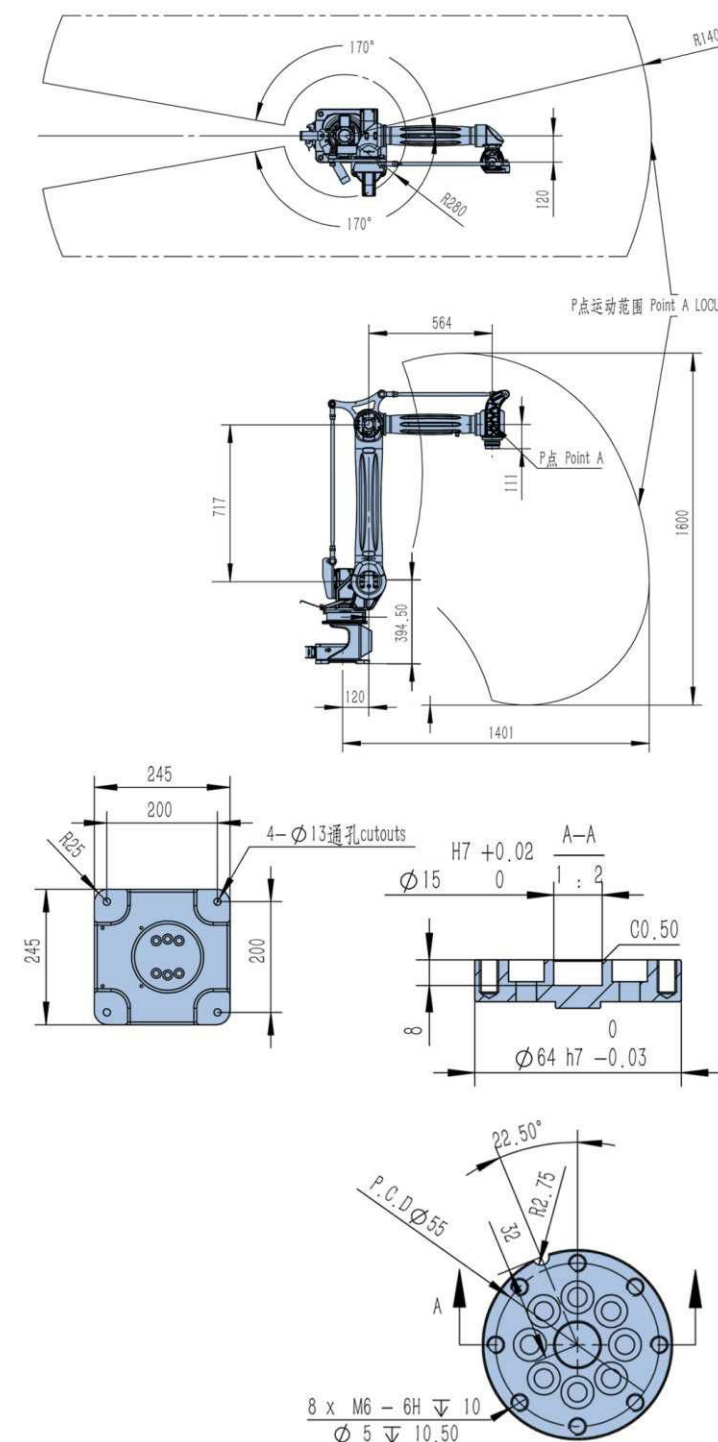
项目 Item	规格 Specifications	
机器人型号 Robot model	FCB6-1400	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	4	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+35 ~ -85°
	J3	+60 ~ -60°
	J4	±360°
最大速度 Axis Max. speed	J1	444°/s, 7.74rad/s
	J2	297°/s, 5.18rad/s
	J3	360°/s, 6.28rad/s
	J4	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	6kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	
	J6	
最大工作半径 Max. reach	1401 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ8*1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.3kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	4M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	70 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
- *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3 : 依据“JIS B 8432”。
- *4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5 : 有机溶剂、酸类、碱类、氯类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1 : This value varies from the installed position and the wrist load mass.
- *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- *3 : JIS B 8432 compliant.
- *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FCB10-1500

Product Introduction

The robot features a compact and lightweight design, offering advantages such as simplified structure, low failure rate, easy operation, low energy consumption, small footprint, and fast cycle time. Its powerful wrist load capacity allows it to easily complete tasks such as handling, palletizing, and stamping.

Product Features

1. High speed and high precision
2. Stable performance
3. Lightweight design and beautiful appearance
4. Stamping process with user-friendly interface that is easy to learn and use
5. Greater handling capacity



10kg

Maximum load

1508mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Palletizing

High-speed, high-repeatability positioning accuracy, space-saving palletizing process packages, simple and fixed automation.

Metal Stamping

High speed, high repeatability, small footprint, easy to maneuver in confined spaces. Stamping program template, easy to learn and use.

技术指标

TECHNICAL INDICATORS

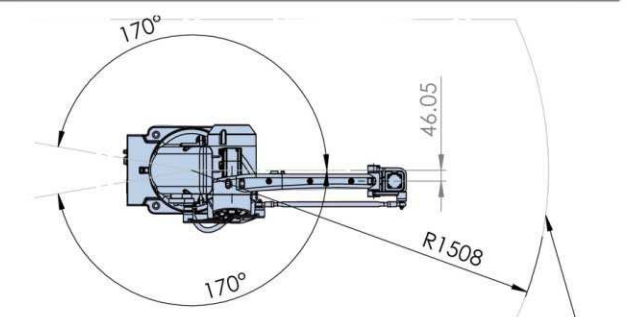
项目 Item	规格 Specifications	
机器人型号 Robot model	FCB10-1500	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	4	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+30 ~ -75°
	J3	+40 ~ -70°
	J4	±360°
最大速度 Axis Max. speed	J1	222°/s, 3.87rad/s 444°/s, 7.74rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	360°/s, 6.28rad/s
最大负载 Maximum load	手腕部*1 Wrist 10kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	
	J6	
最大工作半径 Max. reach	1508 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping(Optional)	φ10	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.15kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature 设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
	耐环境性*5 Environmental performance	IP54
本体质量 Robot mass	150 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

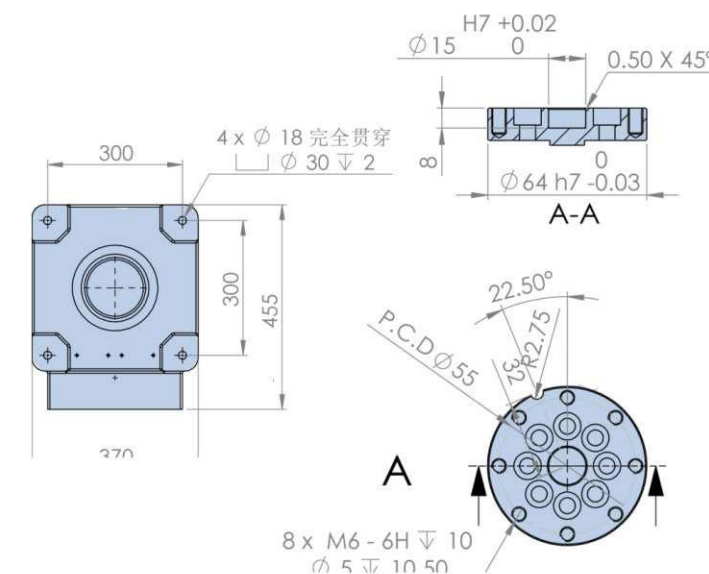
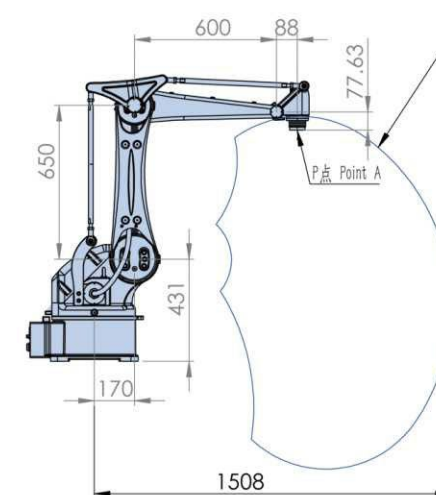
- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据“JIS B 8432”。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶液、酸类、碱类、氧类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

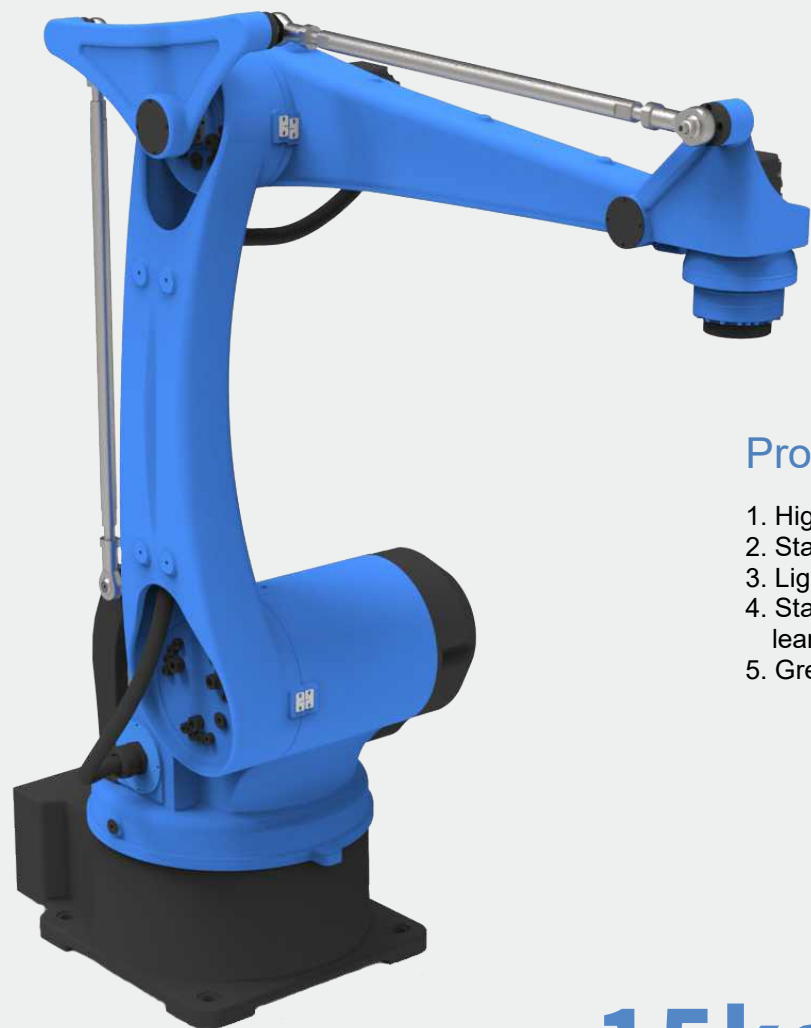
工作空间

WORKING SPACE



P点运动范围 Point A LOCUS





FCB15-1500

Product Introduction

The robot features a compact and lightweight design, offering advantages such as simplified structure, low failure rate, easy operation, low energy consumption, small footprint, and fast cycle time. Its powerful wrist load capacity allows it to easily complete tasks such as handling, palletizing, and stamping.

Product Features

1. High speed and high precision
2. Stable performance
3. Lightweight design and beautiful appearance
4. Stamping process with user-friendly interface that is easy to learn and use
5. Greater handling capacity

15kg

Maximum load

1508mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Palletizing

High-speed, high-repeatability positioning accuracy, space-saving palletizing process packages, simple and fixed automation.

Metal Stamping

High speed, high repeatability, small footprint, easy to maneuver in confined spaces. Stamping program template, easy to learn and use.

技术指标

TECHNICAL INDICATORS

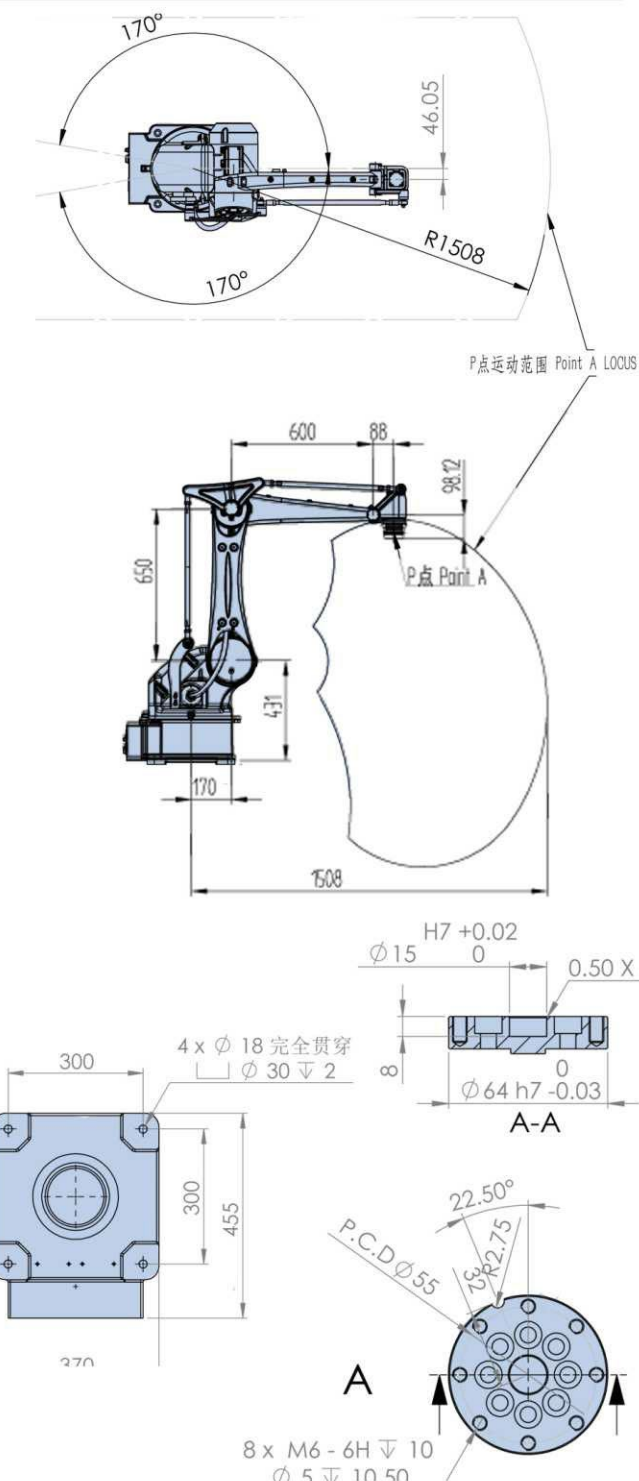
项目 Item	规格 Specifications	
机器人型号 Robot model	FCB15-1500	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	4	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+30 ~ -75°
	J3	+40 ~ -70°
	J4	±360°
最大速度 Axis Max. speed	J1	222°/s, 3.87rad/s 444°/s, 7.74rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	360°/s, 6.28rad/s
最大负载 Maximum load	手腕部*1 Wrist	15kg
	J4	20.4 N·m
手腕容许静负荷扭矩 Allowable static load torque for wrist	J5	
	J6	
	J4	0.42kg·m ²
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J5	
	J6	
	J4	
最大工作半径 Max. reach	1508 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping(Optional)	φ10	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.15kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	1555 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- ※1 : 安装场所因手腕负荷质量变化。
- ※2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- ※3 : 依据 "JIS B 8432"。
- ※4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- ※5 : 有机溶剂、酸类、碱类、氨类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- ※1 : This value varies from the installed position and the wrist load mass.
- ※2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- ※3 : JIS B 8432 compliant.
- ※4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- ※5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FCS6-400/600

Product Introduction

The robot has a compact design, a lightweight yet sturdy arm, consumes less power, and features optimized motor power and motion performance, resulting in shorter cycle times and greater stability. It can be used for various tasks such as dispensing, screwing, sorting lightweight products, and drilling, and is widely used in the 3C industry.

Product Features

1. High speed and high precision
2. Stable performance
3. Lightweight design with low power consumption, energy-saving and environmentally friendly
4. Simple operation, easy-to-learn and easy-to-use graphical interface
5. Small footprint and noiseless operation



6kg

Maximum load

400/600mm

Operating radius

产品应用

PRODUCT APPLICATION

Dispensing

High repeatability, high operating speed, saves desktop space, and features fixed automation.

Screw driving

High repeatability, ultra-high operating speed, and stable performance.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FCS6-400/600	
结构 Structure	SCARA	
关节数 Number of axes	4	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±132°
	J2	+150 ~ -150°
	J3	+40 ~ -200°
	J4	±180°
	J5	
	J6	
最大速度 Axis Max. speed	J1	6800 mm/s
	J2	6800 mm/s
	J3	1100 mm/s
	J4	2000 deg/s
	J5	
	J6	
可搬质量 Payload	手腕部*1 Wrist	6kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	
	J5	
	J6	
最大工作半径 Max. reach	400/600 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ4×2	
噪音水平 Noise level	60dB(A)	
额定功率 Rate power	1.0kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	18/20 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1: 安装场所因手腕负荷质量变化。

*2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3: 依据 "JIS B 8432"

*4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1: This value varies from the installed position and the wrist load mass.

*2: Note that wrist moment of inertia varies depending on wrist load conditions.

*3: JIS B 8432 compliant.

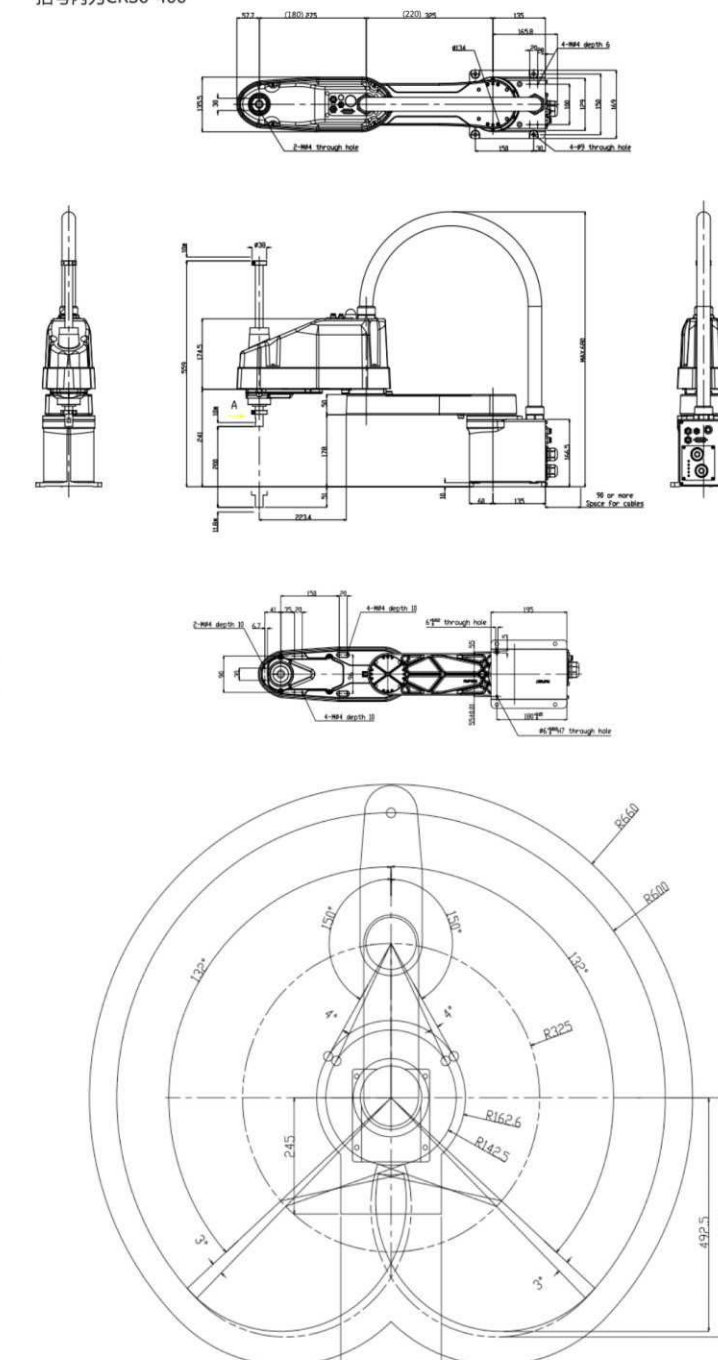
*4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

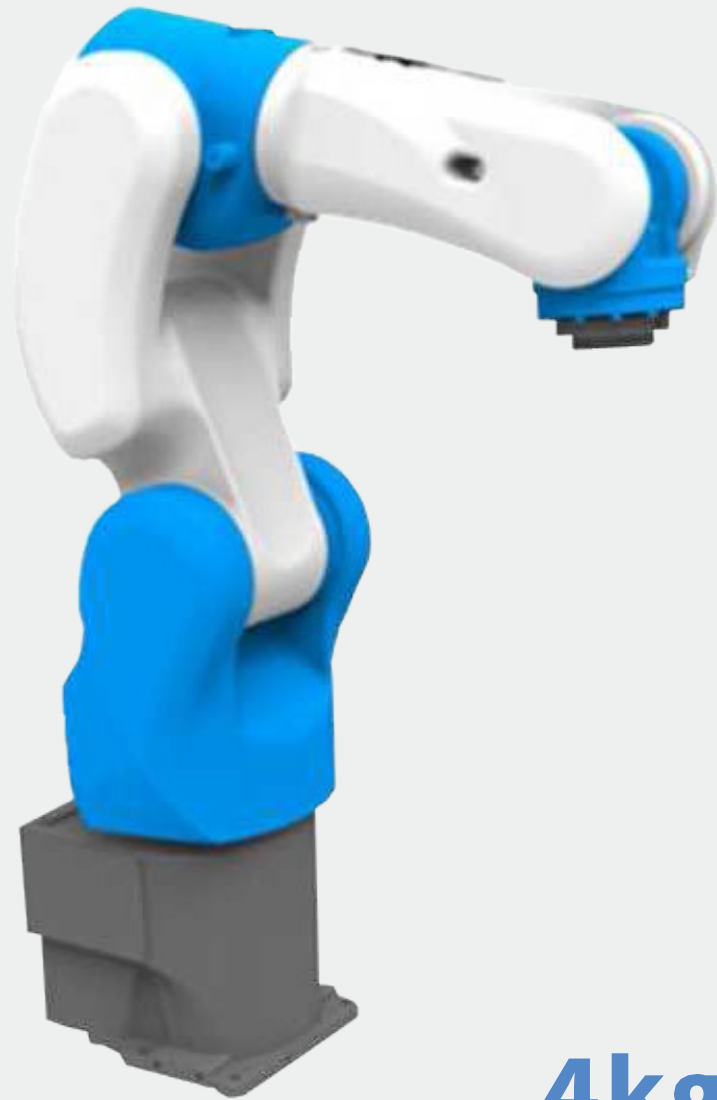
*5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE

括号内为CRS6-400





FC4-540

Product Introduction

Lightweight robots, with their compact size and light weight, are ideal for assembling small units, enabling them to perform tasks such as loading, unloading, sorting, and assembly at high speed and with high precision. All robot cables are internally mounted, allowing for flexible operation in confined spaces. Installation methods include ground mounting, hanging, and inverted mounting.

Product Features

1. Lightweight
2. High operating speed
3. Beautiful appearance
4. High repeatability
5. Internal cable
6. Space-saving (occupies approximately the size of an A5 sheet of paper)

4kg

Maximum load

541mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Assembly

High speed, high repeatability, saves ground space, and extends working time.

Polishing

High protection level; large wrist torque.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC4-540	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. operating envelope	J1	±170°
	J2	±170°
	J3	+40° ~ -220°
	J4	±185°
	J5	±125°
	J6	±360°
最大速度 Max. velocity	J1	370°/s, 6.46rad/s
	J2	370°/s, 6.46rad/s
	J3	430°/s, 7.50rad/s
	J4	300°/s, 5.23rad/s
	J5	460°/s, 8.03rad/s
	J6	600°/s, 10.46rad/s
最大负载 Maximum load	手腕部 ^{※1} Wrist	4 kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J5	35 N·m
	J6	24 N·m
手腕容许最大惯性力矩 ^{※2} Allowable static load torque for wrist	J5	0.49kg·m ²
	J6	0.28kg·m ²
最大工作半径 Max. reach	540 mm	
位置反复精度 ^{※3} Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ6×2	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	1.5KW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0~40 °C ^{※4} Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20~85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性 ^{※5} Environmental performance	IP65	
本体质量 Robot mass	28 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

※1: 安装场所因手腕负荷质量变化。

※2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

※3: 依据 "JIS B 8432"。

※4: 在海拔1000m以下使用, 超过容许高度时, 周围温度受到限制。

※5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

※1: This value varies from the installed position and the wrist load mass.

※2: Note that wrist moment of inertia varies depending on wrist load conditions.

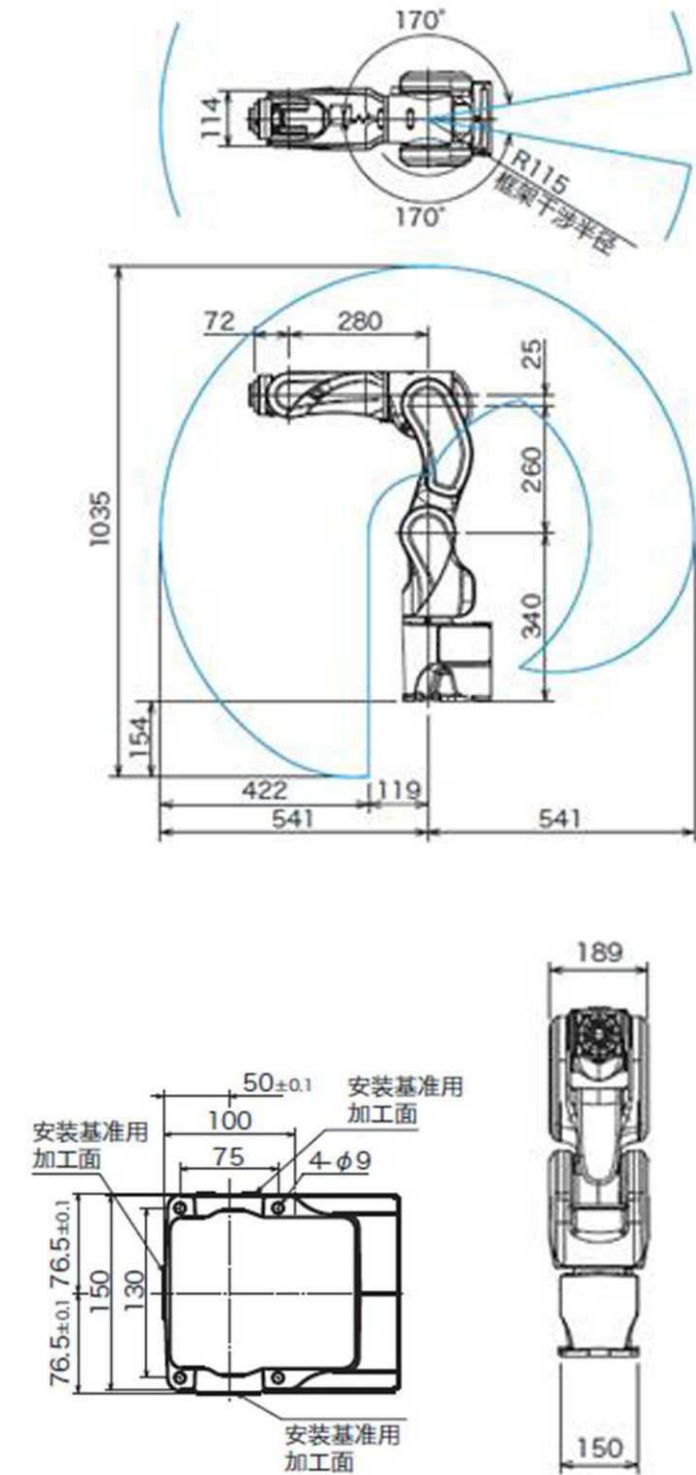
※3: JIS B 8432 compliant.

※4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

※5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



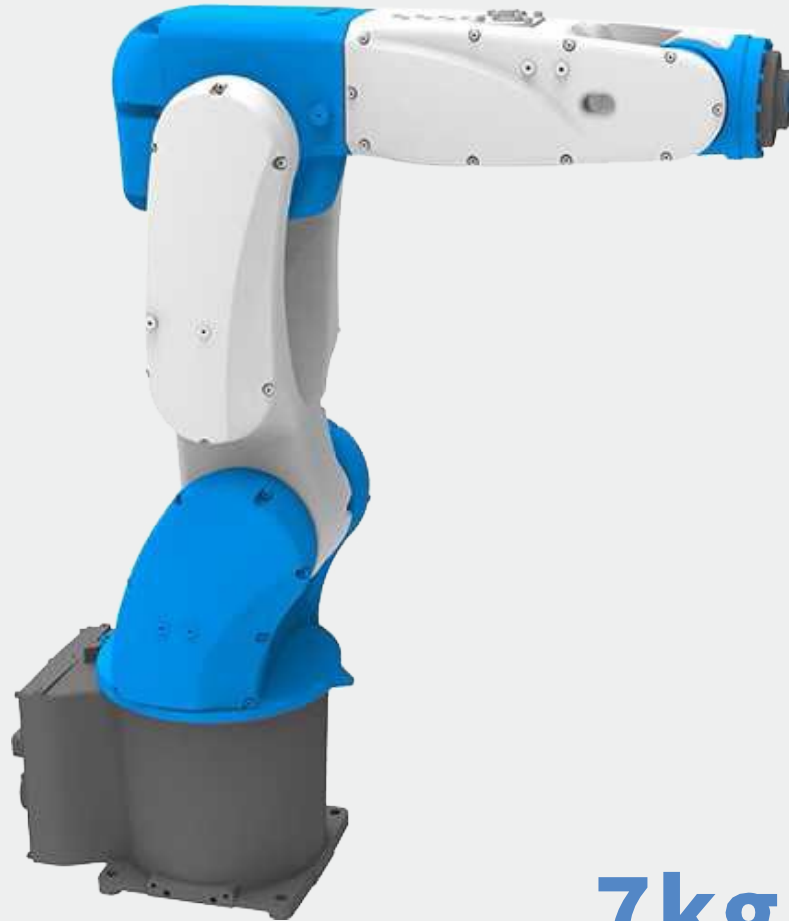
FC7-700

Product Introduction

Lightweight robots, with their compact size and light weight, are ideal for assembling small units, enabling them to perform tasks such as loading, unloading, sorting, and assembly at high speed and with high precision. All robot cables are internally mounted, allowing for flexible operation in confined spaces. Installation methods include ground mounting, hanging, and inverted mounting.

Product Features

1. Lightweight
2. High operating speed
3. Beautiful appearance
4. High repeatability
5. Built-in cable



7kg
Maximum load

723mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Assembly

High speed, high repeatability, saves ground space, and extends working time.

Polishing

High protection level; large wrist torque.

技术指标

TECHNICAL INDICATORS

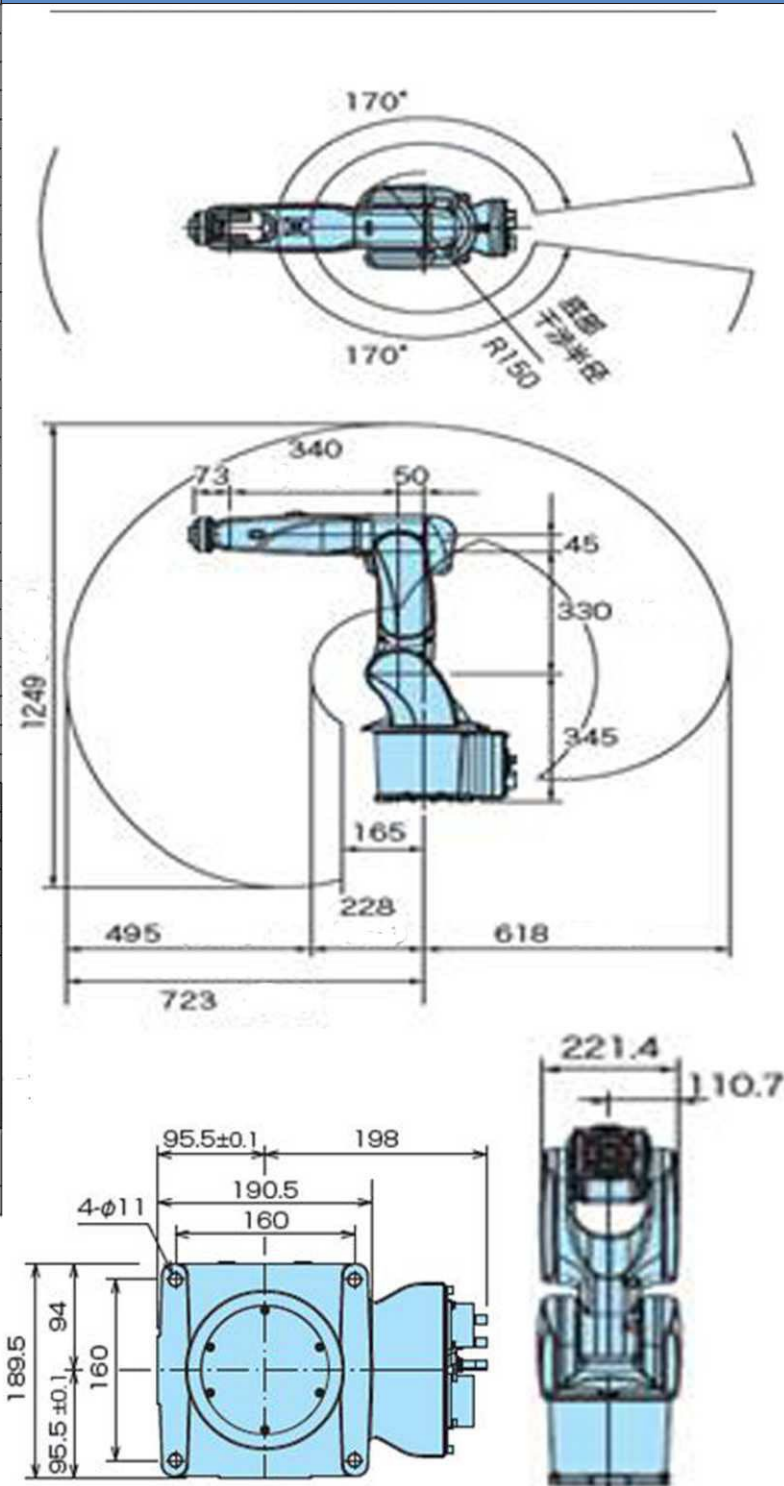
项目 Item	规格 Specifications	
机器人型号 Robot model	FC7-700	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+110 ~ -110°
	J3	+40 ~ -220°
	J4	±185°
	J5	+35 ~ -205°
	J6	±360°
最大速度 Axis Max. speed	J1	370°/s, 6.45rad/s
	J2	370°/s, 6.45rad/s
	J3	430°/s, 7.50rad/s
	J4	300°/s, 5.23ad/s
	J5	460°/s, 8.03rad/s
	J6	600°/s, 10.47rad/s
最大负载 Maximum load	手腕部*1 Wrist 7kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	35N·m
	J5	24N·m
	J6	24N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	3.57kg·m ²
	J5	2.45kg·m ²
	J6	2.45kg·m ²
最大工作半径 Max. reach	723 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	1.6kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	32 kg	

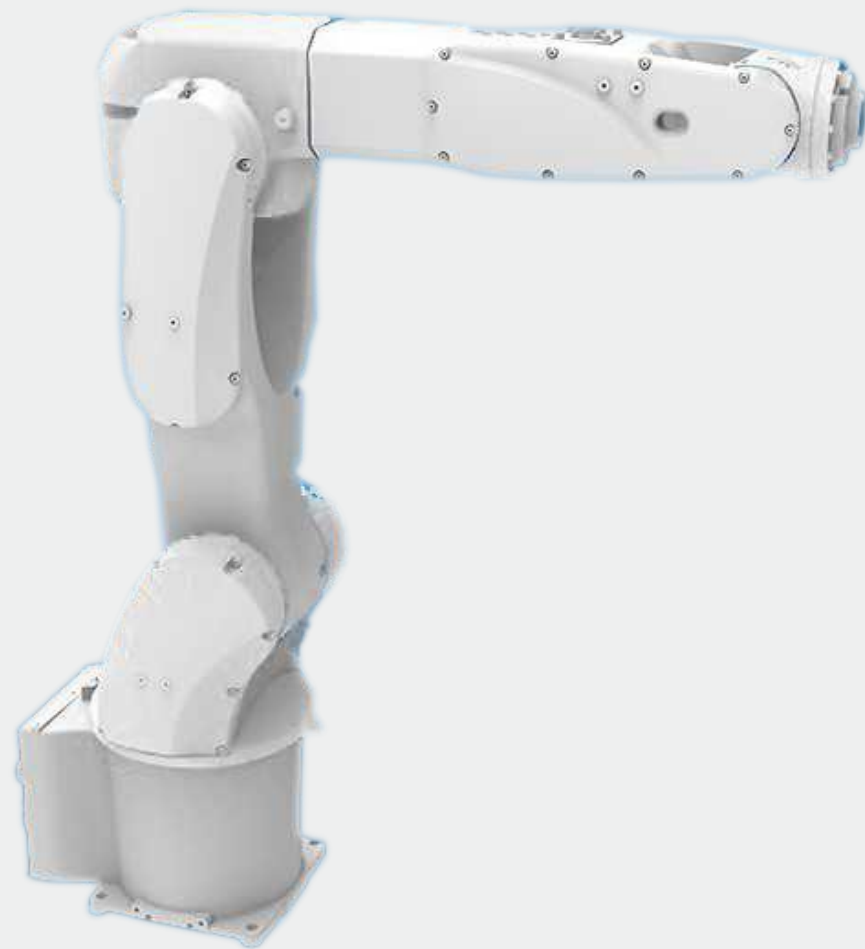
1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
- *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3 : 依据 "JIS B 8432"。
- *4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1 : This value varies from the installed position and the wrist load mass.
- *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- *3 : JIS B 8432 compliant.
- *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC5-900

Product Introduction

Lightweight robots, with their compact size and light weight, are ideal for assembling small units, enabling them to perform tasks such as loading, unloading, sorting, and assembly at high speed and with high precision. All robot cables are internally mounted, allowing for flexible operation in confined spaces. Installation methods include ground mounting, hanging, and inverted mounting.

Product Features

1. Lightweight
2. High operating speed
3. Beautiful appearance
4. High repeatability
5. Built-in cable

5kg
Maximum load

912mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling

Greater flexibility, high wrist torque enables high speed, maximizing throughput and extending operating time.

Assembly

High speed, high repeatability, saves ground space, and extends working time.

Polishing

High protection level; large wrist torque.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC5-900	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+110 ~ -110°
	J3	+40 ~ -220°
	J4	±185°
	J5	+35 ~ -205°
	J6	±360°
最大速度 Axis Max. speed	J1	370°/s, 6.45rad/s
	J2	370°/s, 6.45rad/s
	J3	430°/s, 7.50rad/s
	J4	300°/s, 5.23ad/s
	J5	460°/s, 8.03rad/s
	J6	600°/s, 10.47rad/s
最大负载 Maximum load	手腕部*1 Wrist 5kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	
	J5	35N·m
	J6	24N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	
	J5	3.57kg·m ²
	J6	2.45kg·m ²
最大工作半径 Max. reach	912 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	1.6kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度: 0~45℃*4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度: 20~85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动: 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	36 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1: 安装场所因手腕负荷质量变化。

*2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3: 依据“JIS B 8432”。

*4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5: 有机溶剂、酸类、碱类、氧类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1: This value varies from the installed position and the wrist load mass.

*2: Note that wrist moment of inertia varies depending on wrist load conditions.

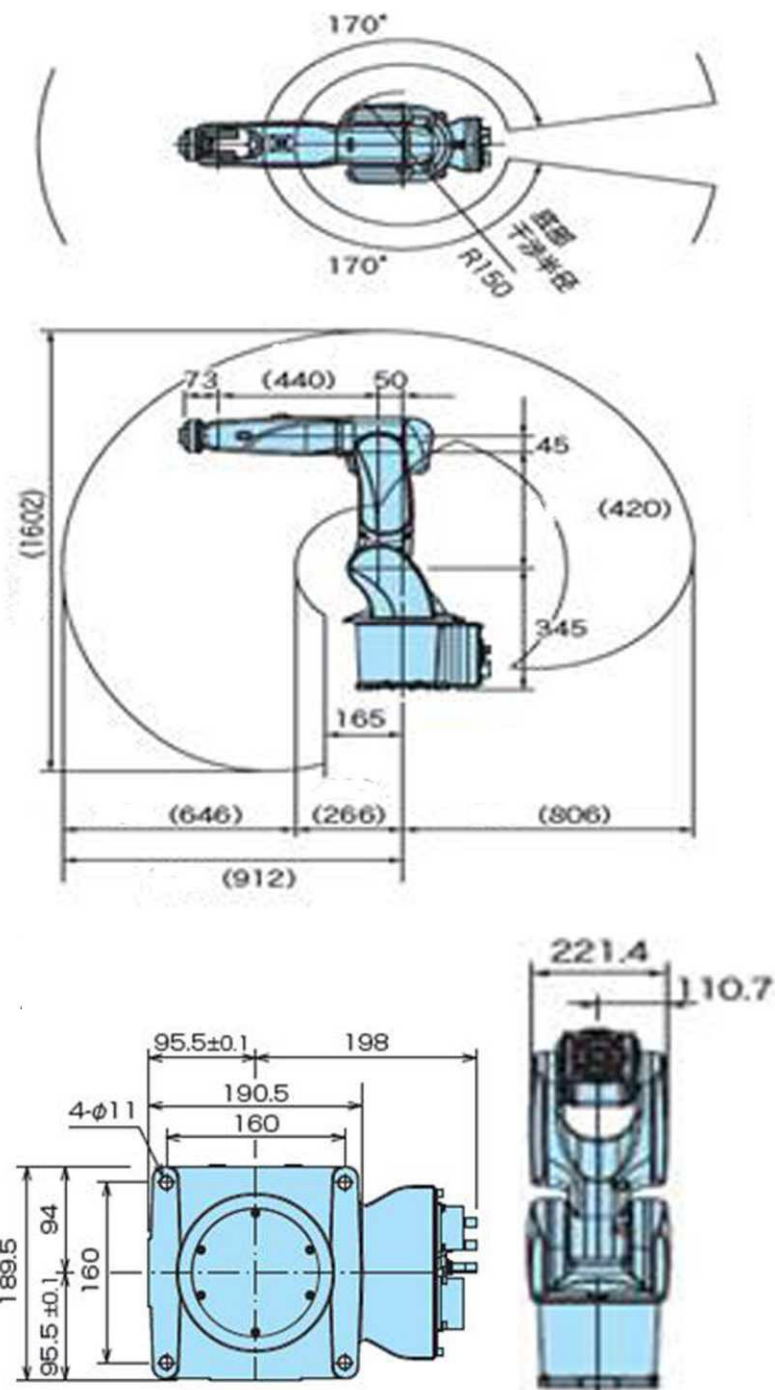
*3: JIS B 8432 compliant.

*4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



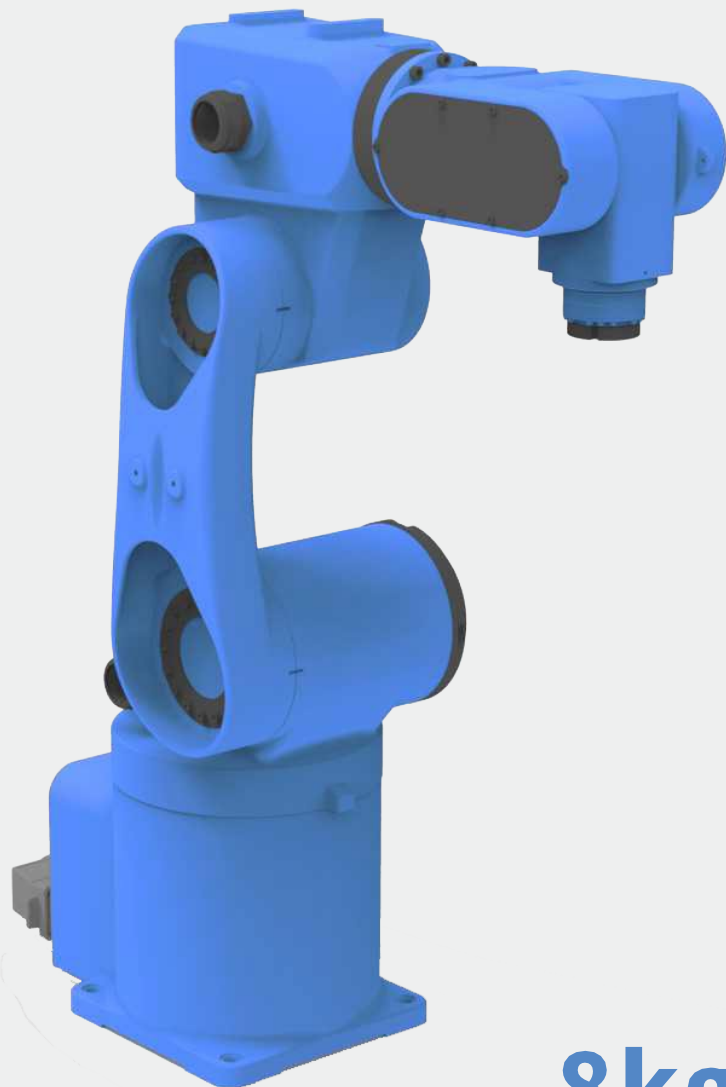
FC8-700

Product Introduction

Lightweight robots, with their compact size and light weight, are ideal for assembling small units, enabling them to perform tasks such as loading, unloading, sorting, and assembly at high speed and with high precision. All robot cables are internally mounted, allowing for flexible operation in confined spaces. Installation methods include ground mounting, hanging, and inverted mounting.

Product Features

1. Lightweight
2. High operating speed
3. Beautiful appearance
4. High repeatability
5. Built-in cable



8kg

Maximum load

722mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC8-700	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±175°
	J2	+70 ~ -100°
	J3	+100 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	360°/s, 6.28rad/s
	J2	360°/s, 6.28rad/s
	J3	450°/s, 7.85rad/s
	J4	450°/s, 7.85rad/s
	J5	360°/s, 6.28rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	8kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	16.5 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.23kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	722 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.5kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	40kg	

1[rad] = 180/m°, 1[N·m] = 1/9.8[kgf·m]

*1: 安装场所因手腕负荷质量变化。

*2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3: 依据 "JIS B 8432"。

*4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5: 有机溶剂、酸类、碱类、氨类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1: This value varies from the installed position and the wrist load mass.

*2: Note that wrist moment of inertia varies depending on wrist load conditions.

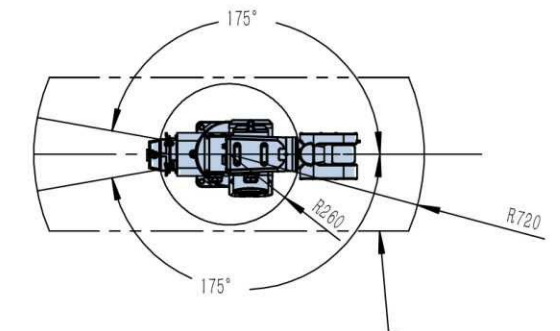
*3: JIS B 8432 compliant.

*4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

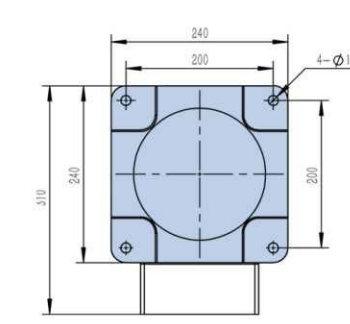
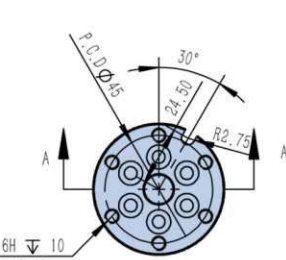
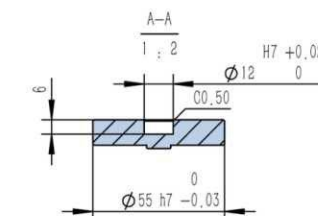
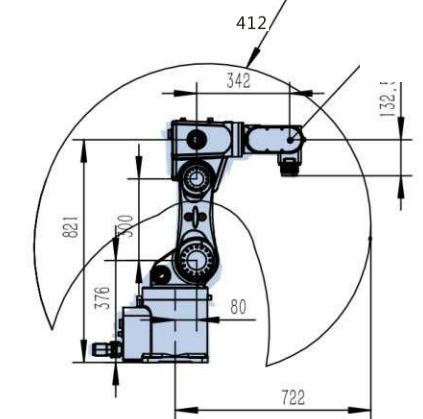
*5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

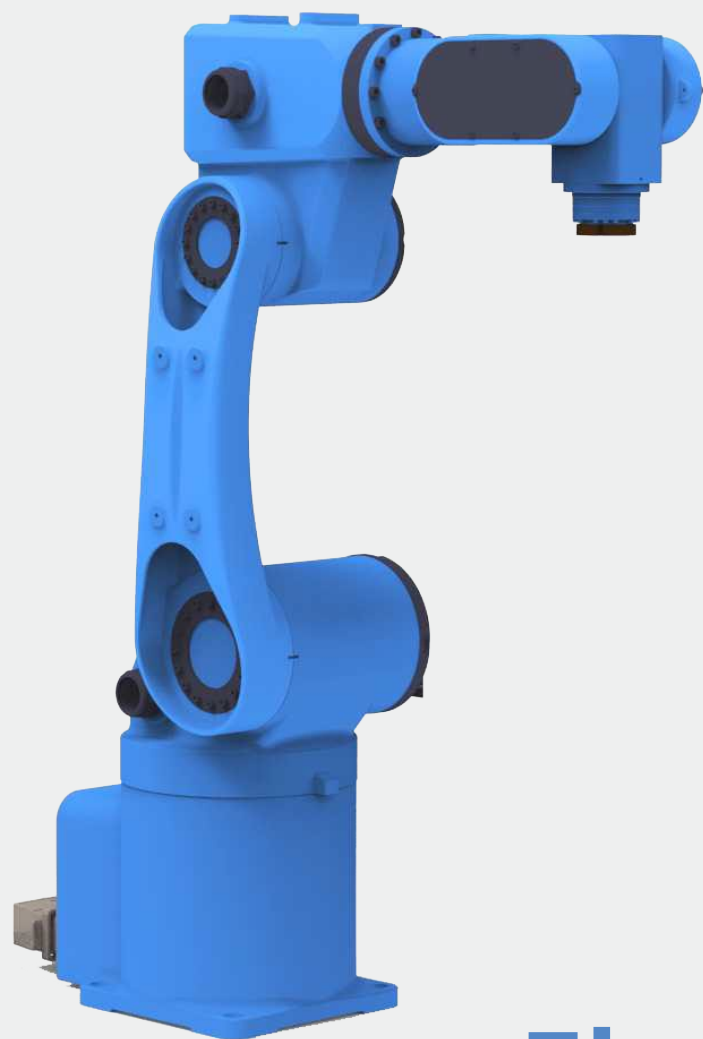
工作空间

WORKING SPACE



P点运动范围 Point A LOCUS





7kg
Maximum load

922mm
Operating radius

FC7-920

Product Introduction

Lightweight robots, with their compact size and light weight, are ideal for assembling small units, enabling them to perform tasks such as loading, unloading, sorting, and assembly at high speed and with high precision. All robot cables are internally mounted, allowing for flexible operation in confined spaces. Installation methods include ground mounting, hanging, and inverted mounting.

Product Features

1. Lightweight
2. High operating speed
3. Beautiful appearance
4. High repeatability
5. Built-in cable

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

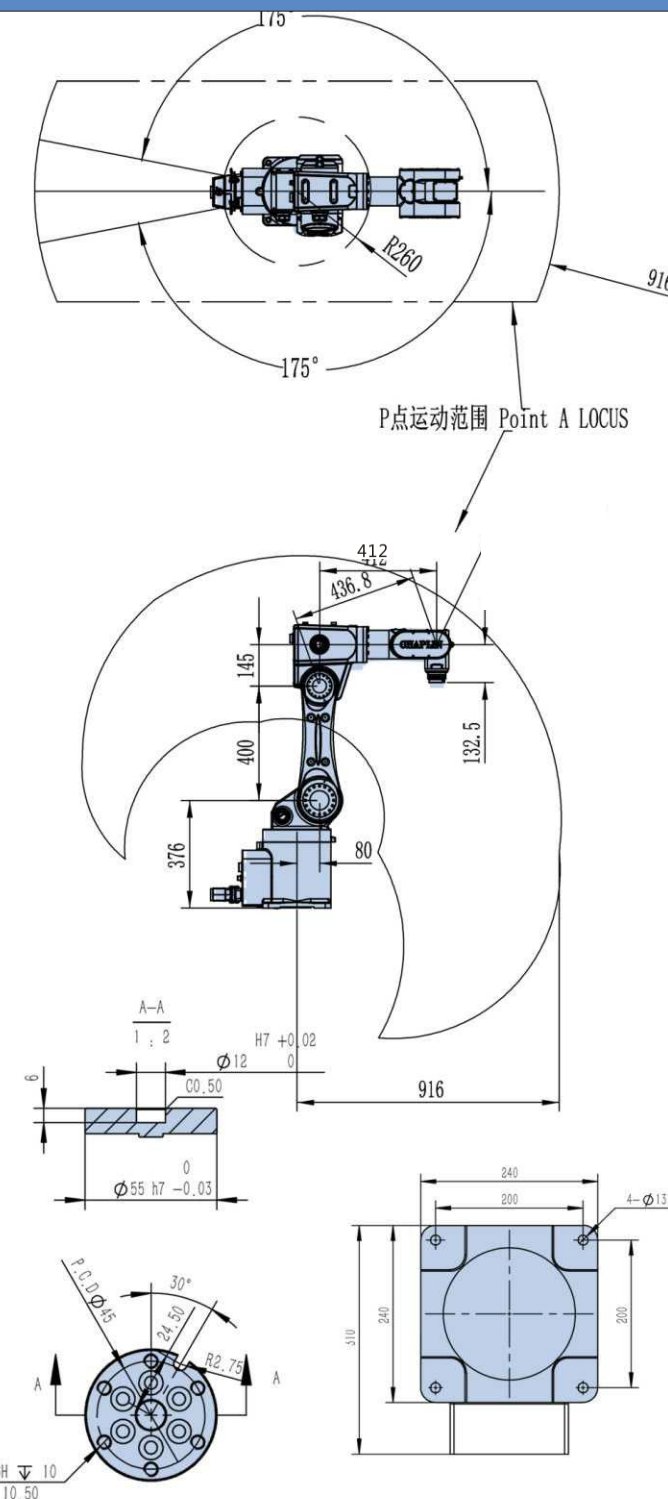
项目 Item	规格 Specifications	
机器人型号 Robot model	FC7-920	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±175°
	J2	+70 ~ -100°
	J3	+100 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	360°/s, 6.28rad/s
	J2	360°/s, 6.28rad/s
	J3	450°/s, 7.85rad/s
	J4	450°/s, 7.85rad/s
	J5	360°/s, 6.28rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist 7kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	16.5 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.23kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	916 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.5kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	45 kg	

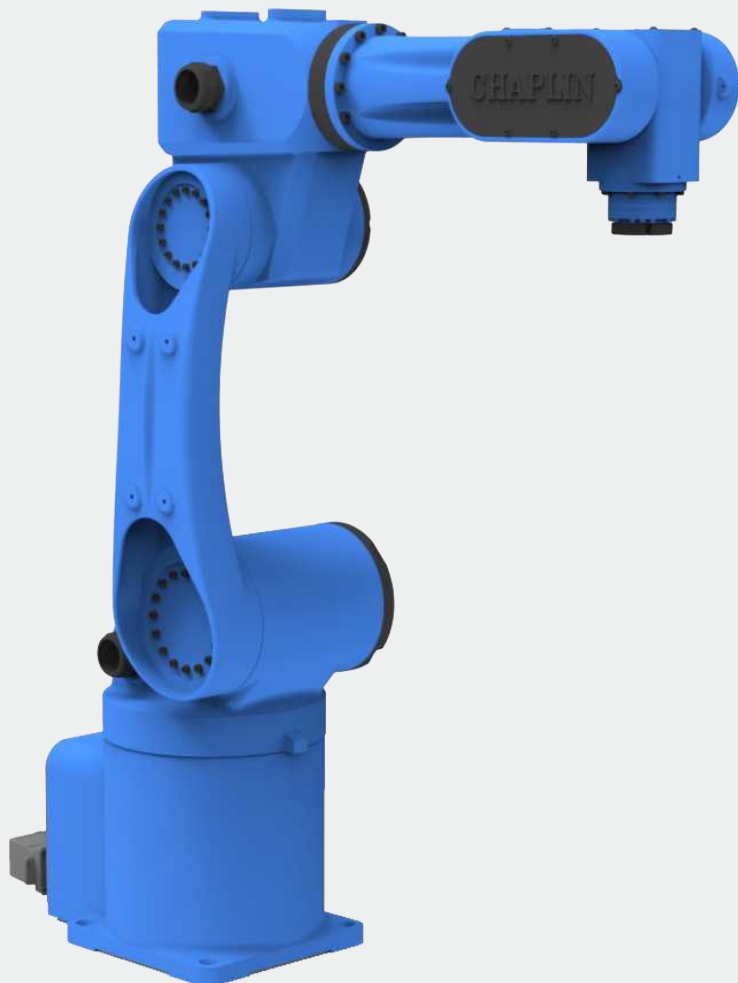
1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据“JIS B 8432”。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





6kg
Maximum load

982mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

FC6-980

Product Introduction

Lightweight robots, with their compact size and light weight, are ideal for assembling small units, enabling them to perform tasks such as loading, unloading, sorting, and assembly at high speed and with high precision. All robot cables are internally mounted, allowing for flexible operation in confined spaces. Installation methods include ground mounting, hanging, and inverted mounting.

Product Features

1. Lightweight
2. High operating speed
3. Beautiful appearance
4. High repeatability
5. Built-in cable

技术指标

TECHNICAL INDICATORS

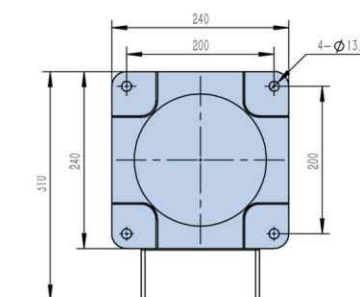
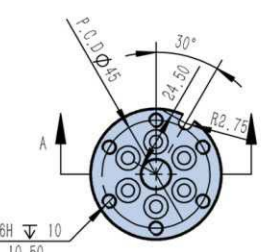
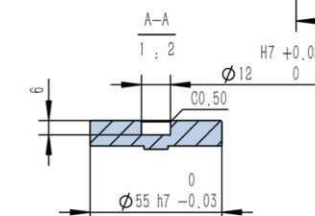
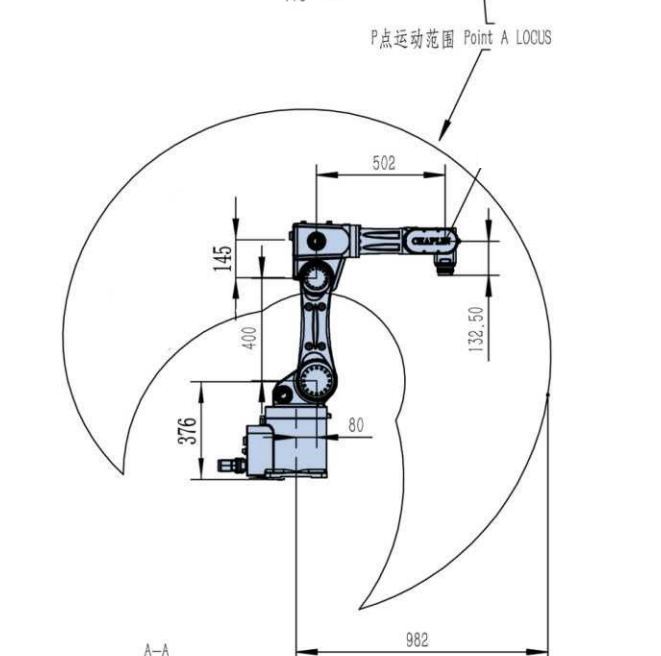
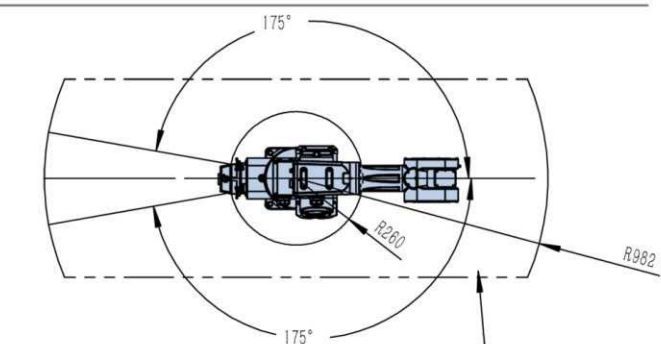
项目 Item	规格 Specifications	
机器人型号 Robot model	FC6-980	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±175°
	J2	+70 ~ -100°
	J3	+100 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	360°/s, 6.28rad/s
	J2	360°/s, 6.28rad/s
	J3	450°/s, 7.85rad/s
	J4	450°/s, 7.85rad/s
	J5	360°/s, 6.28rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist 6kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	16.5 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.23kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	982 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.5kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature 设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
	耐环境性*5 Environmental performance	IP65
本体质量 Robot mass	50 kg	

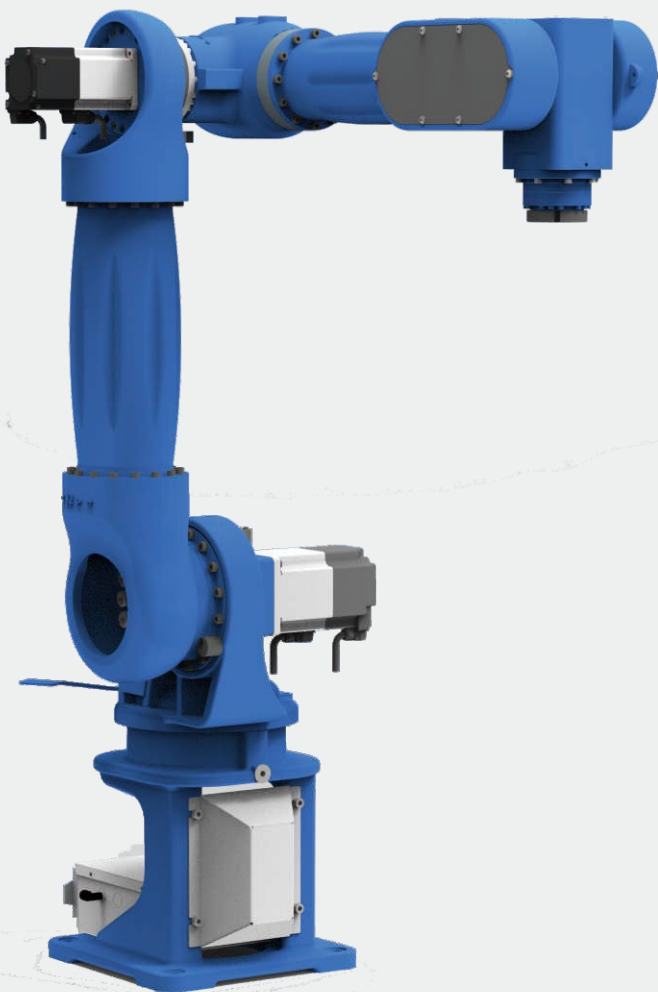
1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
- *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3 : 依据 "JIS B 8432"。
- *4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5 : 有机溶剂、酸类、碱类、氧类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1 : This value varies from the installed position and the wrist load mass.
- *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- *3 : JIS B 8432 compliant.
- *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC7-1100

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading, and welding.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

7kg
Maximum load

1092mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

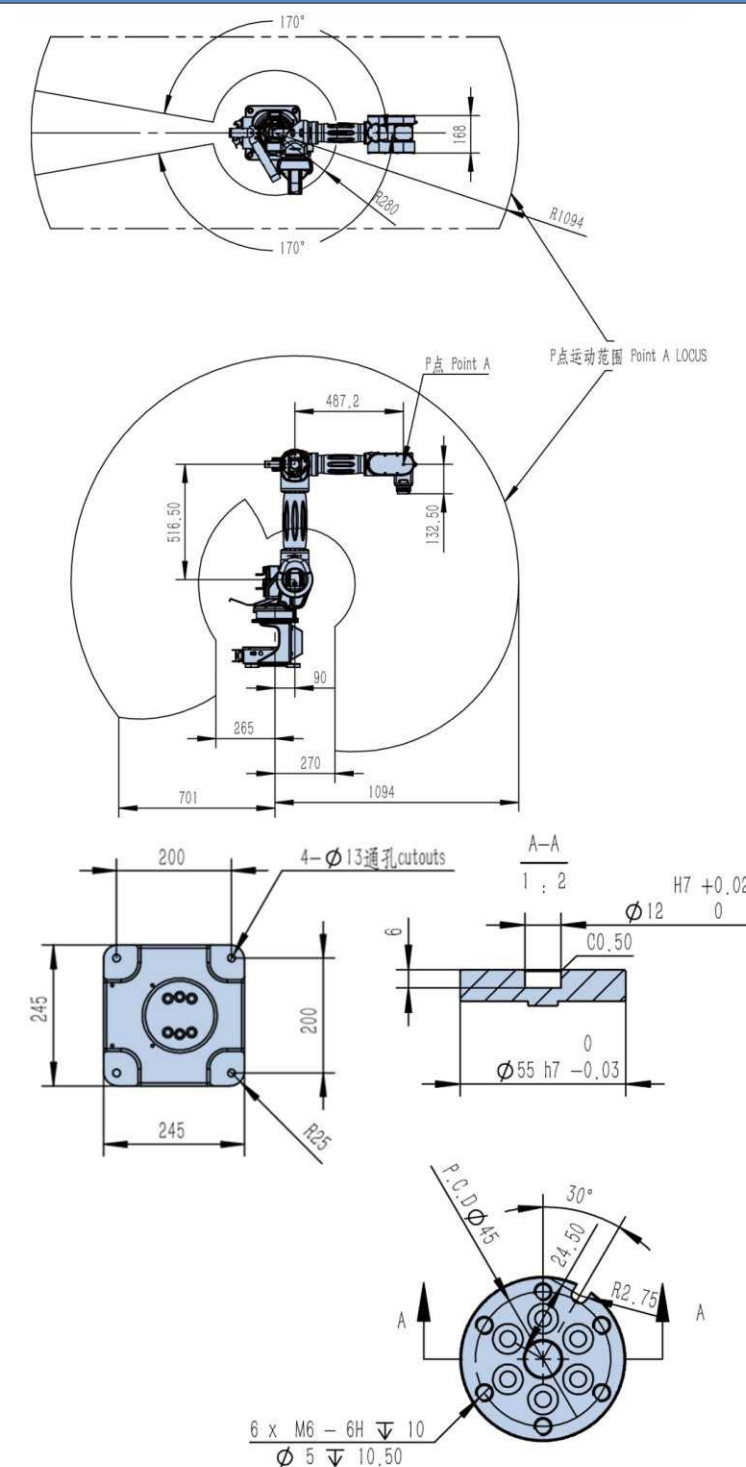
项目 Item	规格 Specifications	
机器人型号 Robot model	FC7-1100	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+75 ~ -95 °
	J3	+90 ~ -60 °
	J4	±160°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	297°/s , 5.18rad/s
	J2	297°/s , 5.18rad/s
	J3	360°/s , 6.28rad/s
	J4	450°/s , 7.85rad/s
	J5	360°/s , 6.28rad/s
	J6	450°/s , 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist 7KG	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	16.5 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.23kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1092 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.5kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	3M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54/手腕IP65	
本体质量 Robot mass	65KG	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据 "JIS B 8432"。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC6-1300

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading, and welding.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models



6kg
Maximum load

1292mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

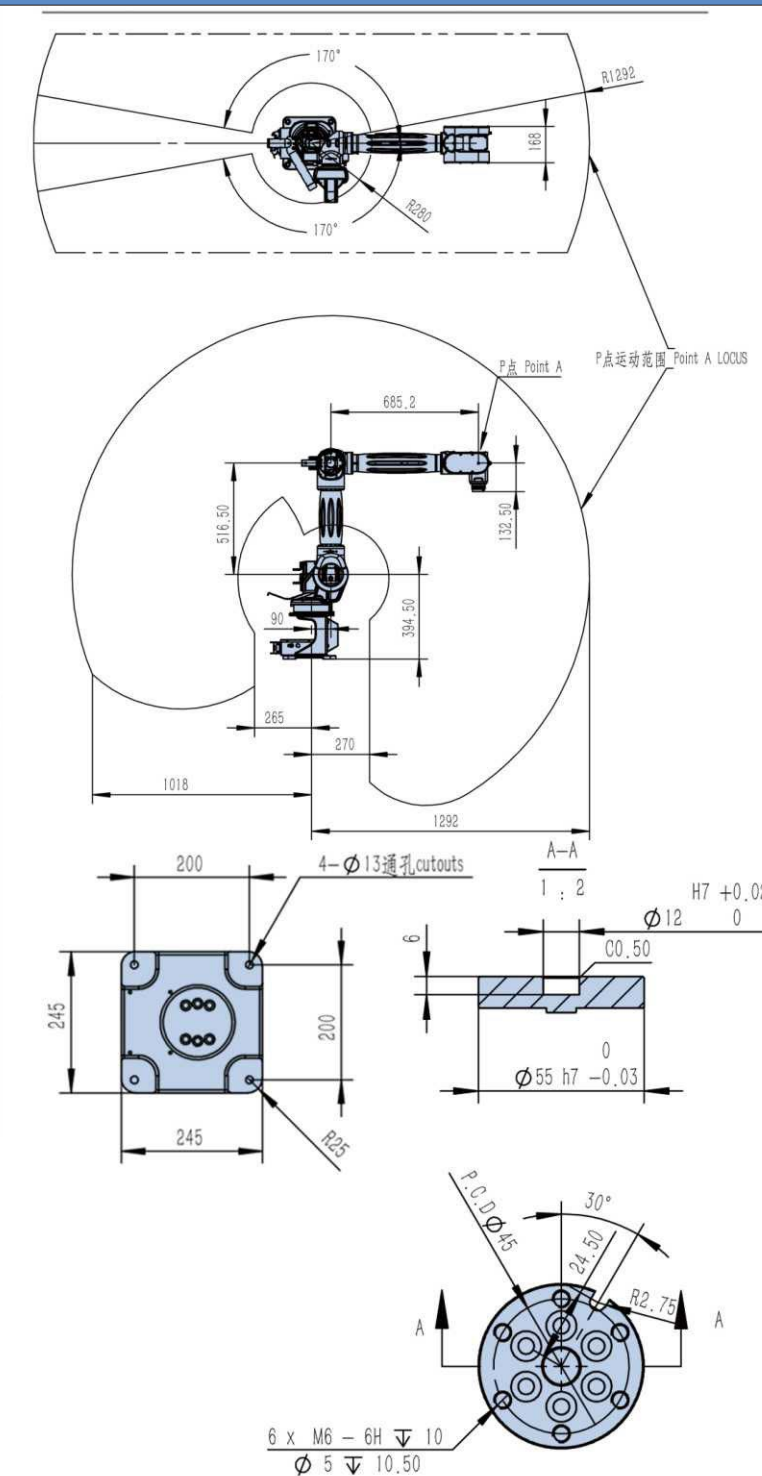
项目 Item	规格 Specifications	
机器人型号 Robot model	FC6-1300	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+75 ~ -95°
	J3	+90 ~ -60°
	J4	±160°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	297°/s, 5.18rad/s
	J2	297°/s, 5.18rad/s
	J3	360°/s, 6.28rad/s
	J4	450°/s, 7.85rad/s
	J5	360°/s, 6.28rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	6KG
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	16.5 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.23kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1292 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	2.5kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54/手腕IP65	
本体质量 Robot mass	70kg	

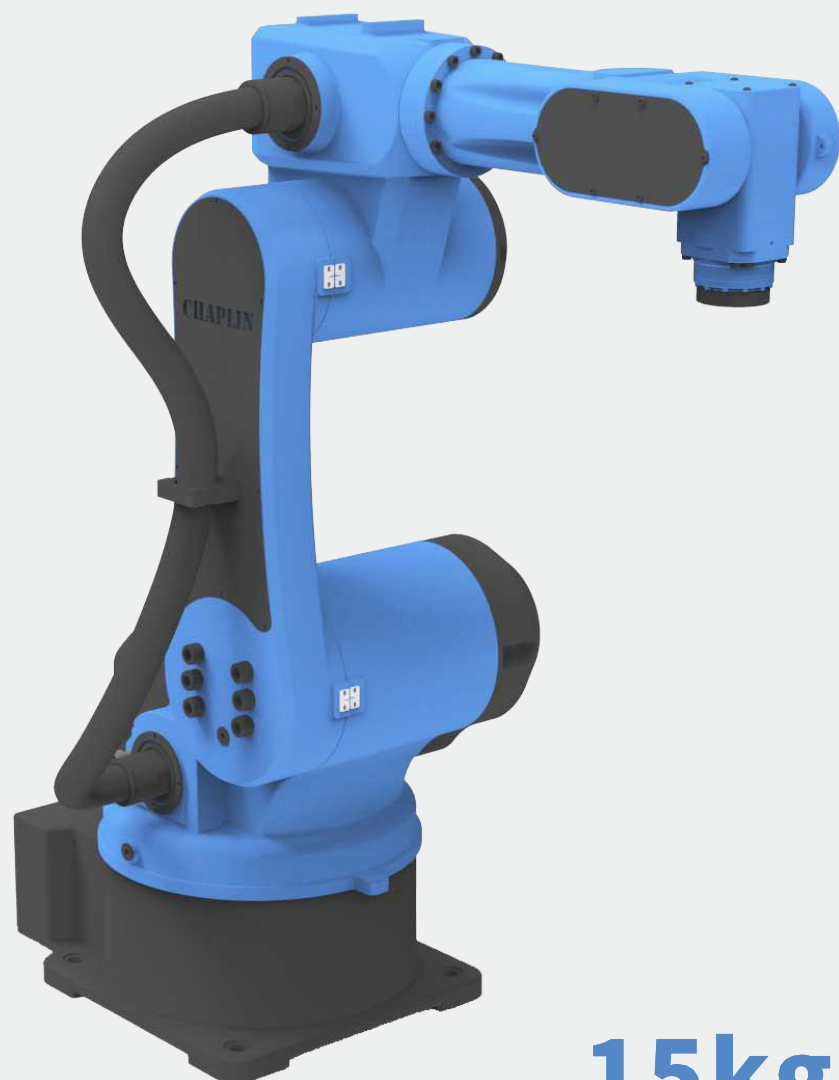
1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
- *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3 : 依据 "JIS B 8432"。
- *4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1 : This value varies from the installed position and the wrist load mass.
- *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- *3 : JIS B 8432 compliant.
- *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





15kg

Maximum load

1115mm

Operating radius

FC15-1100

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J5J6 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading, and welding.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Packaging box industry:
High speed, high repeatability, space-saving design, compact structure, highly flexible, comes with its own process kit, simple and easy to operate.

技术指标

TECHNICAL INDICATORS

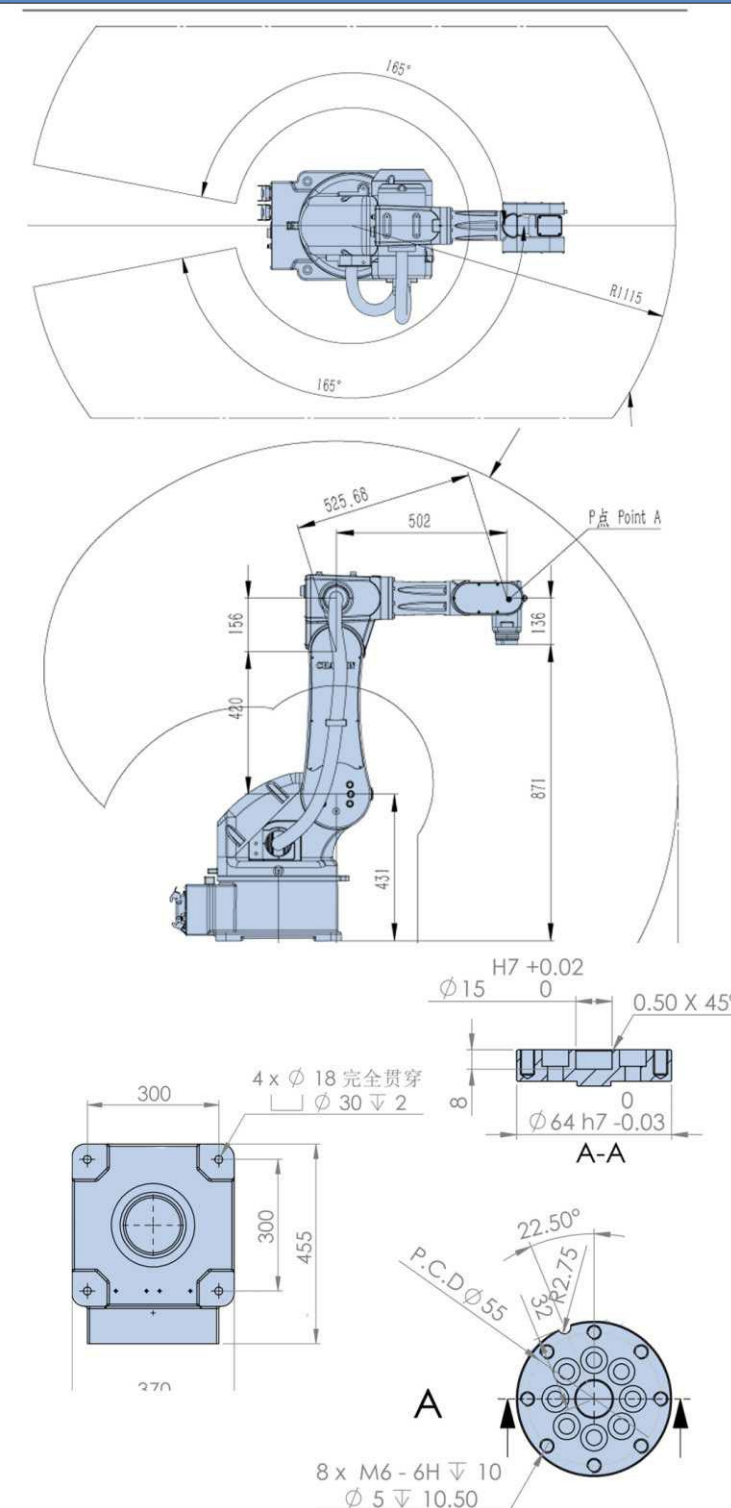
项目 Item	规格 Specifications	
机器人型号 Robot model	FC15-1100	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+20 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	222°/s, 3.87rad/s 444°/s, 7.74rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist 额定10kg最大15kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1115mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管(选配) Air piping(Optional)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.35kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature 设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
	耐环境性*5 Environmental performance	IP65
本体质量 Robot mass	140 kg	

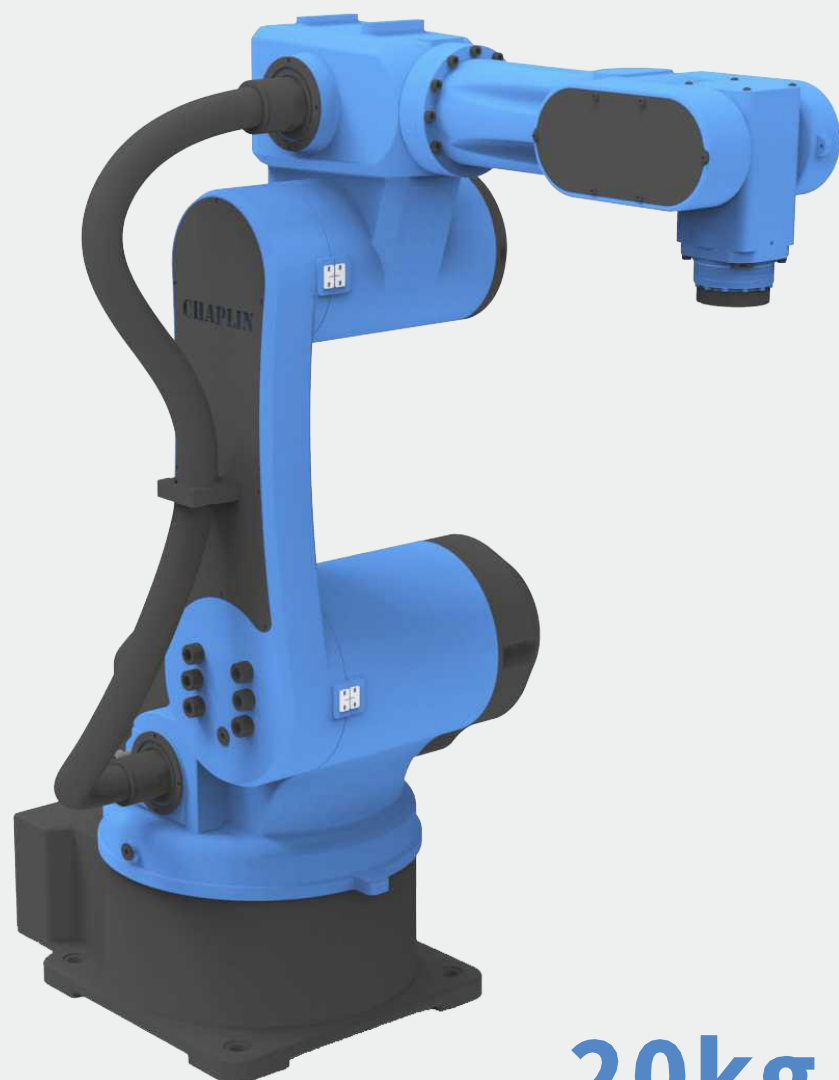
1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据“JIS B 8432”。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC20-1100

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J5J6 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

20kg

Maximum load

1115mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Packaging box industry:
High speed, high repeatability, space-saving design, compact structure, highly flexible, comes with its own process kit, simple and easy to operate.

技术指标

TECHNICAL INDICATORS

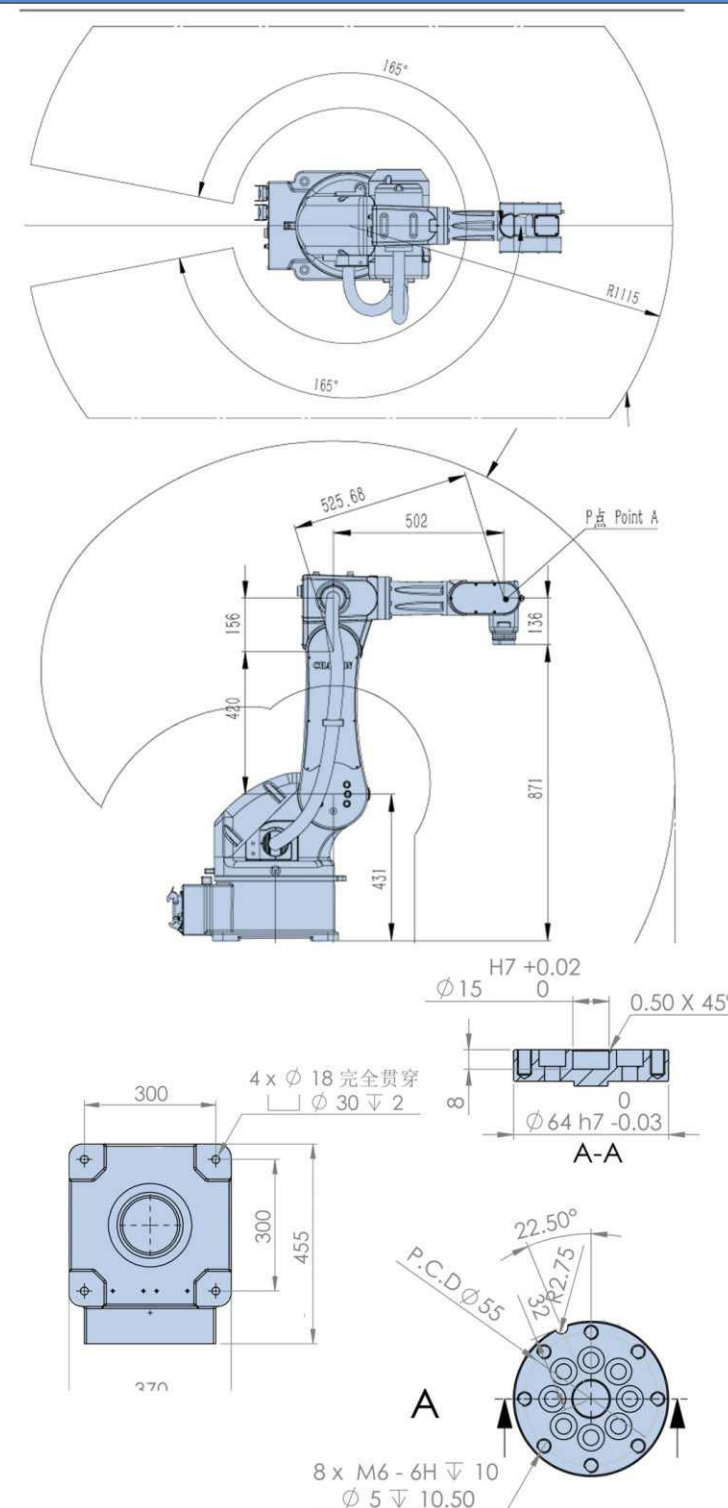
项目 Item	规格 Specifications	
机器人型号 Robot model	FC20-1100	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+20 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	222°/s, 3.87rad/s 444°/s, 7.74rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist 额定15kg最大20kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1115mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管(选配) Air piping(Optional)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.45kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature 设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
	耐环境性*5 Environmental performance	IP65
本体质量 Robot mass	140 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据“JIS B 8432”。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC20-1500

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

20kg
Maximum load

1510mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

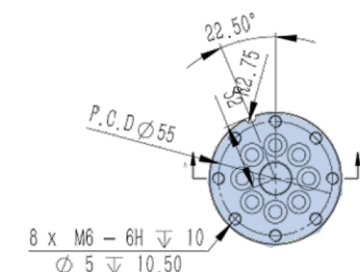
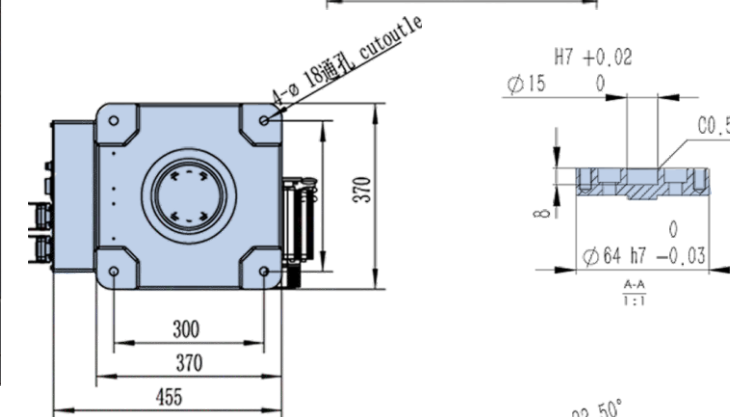
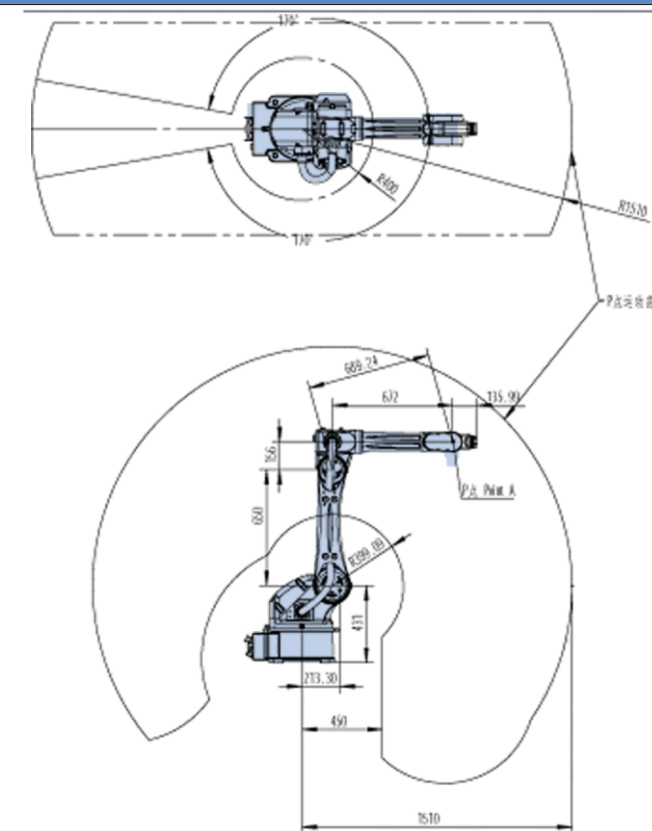
项目 Item	规格 Specifications	
机器人型号 Robot model	FC20-1500	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist 20kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1510 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.7kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0~45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20~85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	165 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kg·f·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据 "JIS B 8432"。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶剂、酸类、碱类、氨类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC10-1600

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models



10kg
Maximum load

1510mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

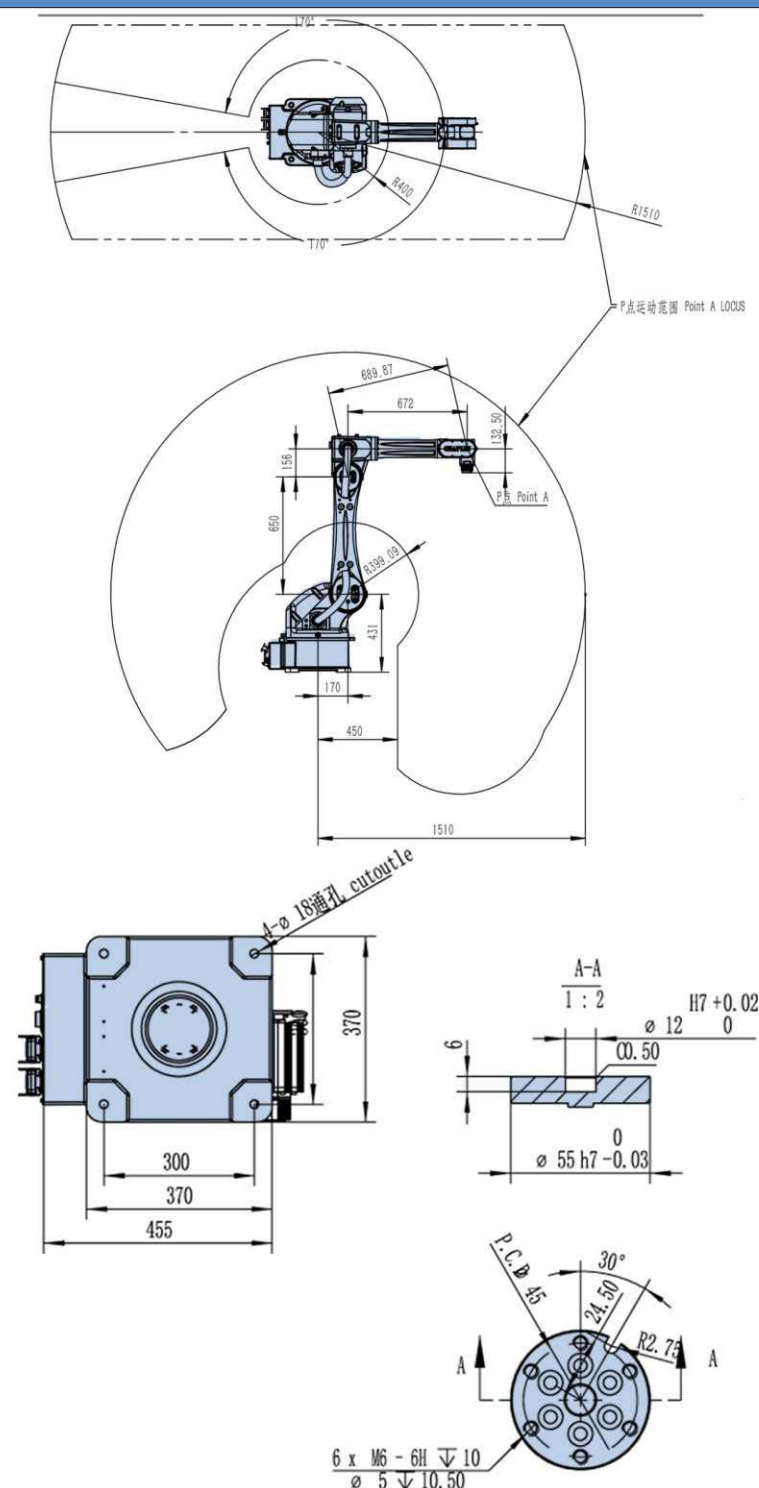
项目 Item	规格 Specifications	
机器人型号 Robot model	FC10-1600	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	10kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1510 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.35kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0~45℃ *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20~85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	160 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据“JIS B 8432”
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC15-1600

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J5J6 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

15kg
Maximum load

1510mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

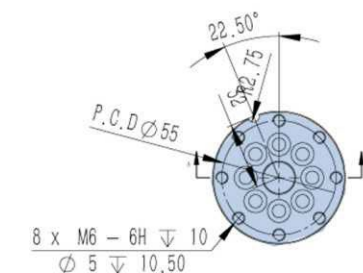
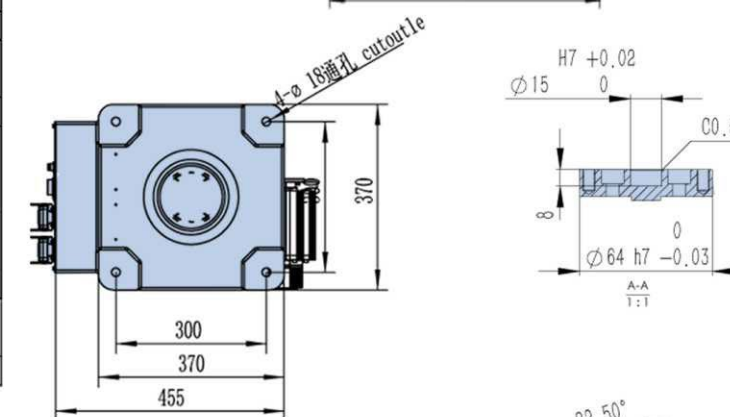
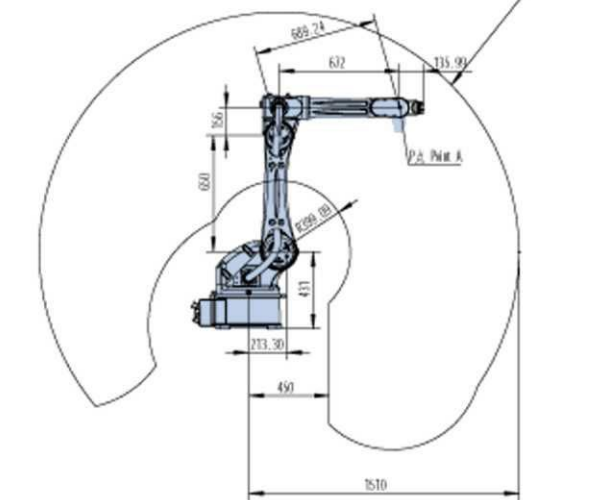
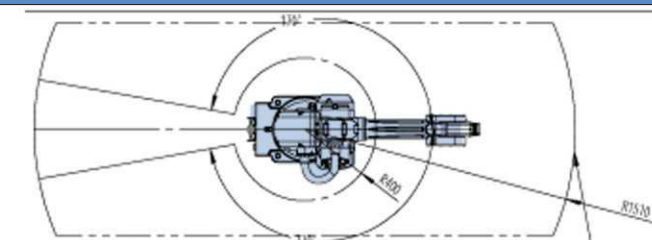
项目 Item	规格 Specifications	
机器人型号 Robot model	FC15-1600	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	15kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1510 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管(选配) Air piping(Optional)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.45kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	165 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
- *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3 : 依据“JIS B 8432”
- *4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5 : 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1 : This value varies from the installed position and the wrist load mass.
- *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- *3 : JIS B 8432 compliant.
- *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC6-1850

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J5J6 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models



6kg
Maximum load

1850mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

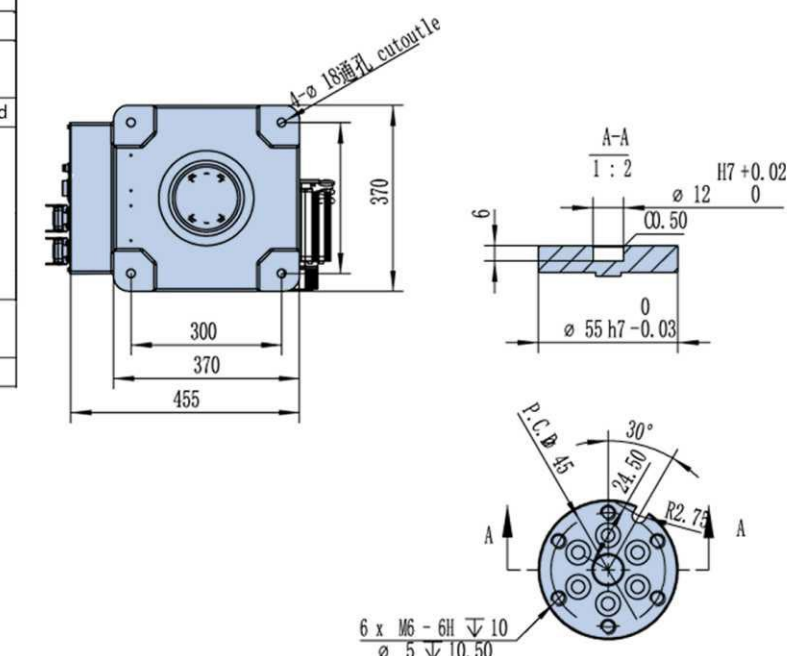
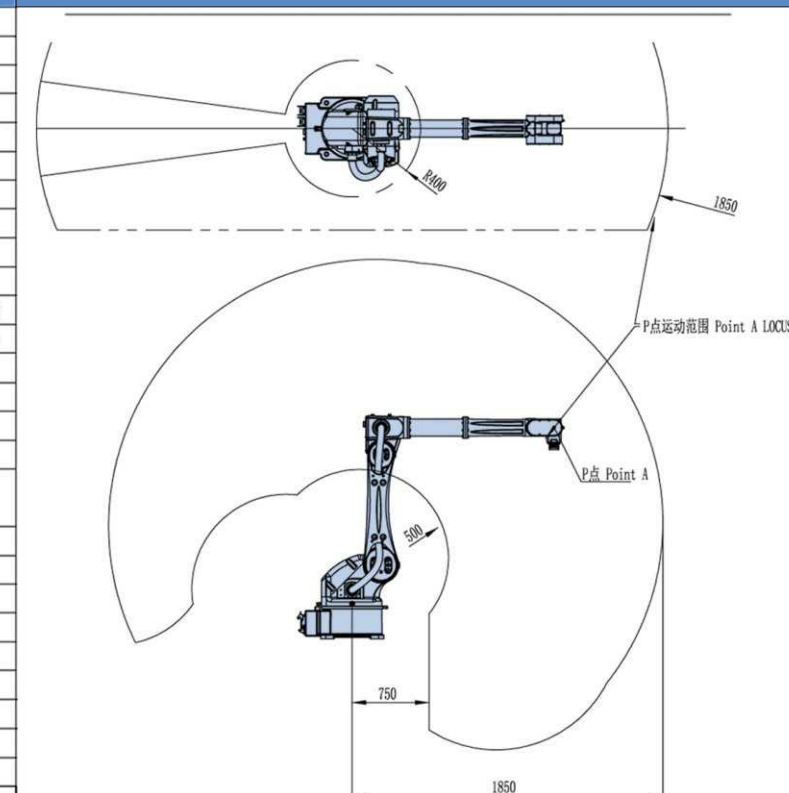
项目 Item	规格 Specifications	
机器人型号 Robot model	FC6-1850	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+20 ~ -195°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	6kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1850 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.35kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	165 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据 "JIS B 8432"。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶液、酸类、碱类、氯类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1: This value varies from the installed position and the wrist load mass.
- *2: Note that wrist moment of inertia varies depending on wrist load conditions.
- *3: JIS B 8432 compliant.
- *4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC10-1850

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J5J6 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

10kg
Maximum load

1850mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

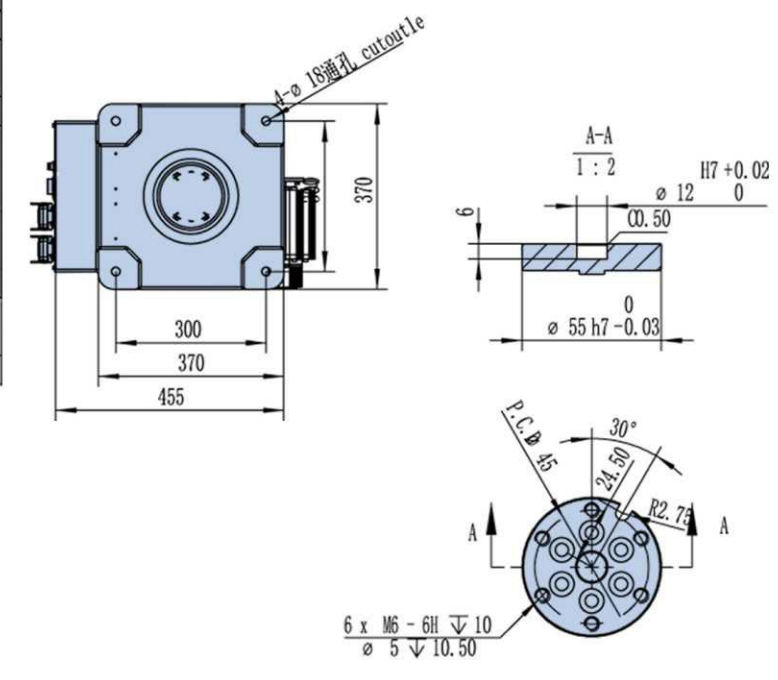
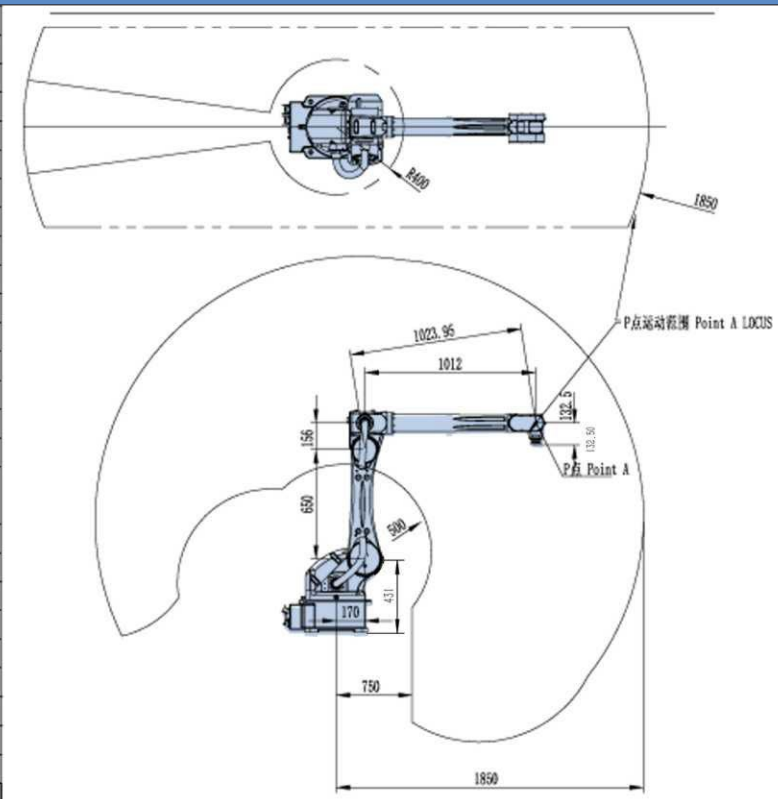
TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC10-1850	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	10kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1850 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管(选配) Air piping(Optional)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.35kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	170 kg	

1[rad] = 180/m[°], 1[N·m] = 1/9.8[kgf·m]
 ※1: 安装场所因手腕负荷质量变化。
 ※2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
 ※3: 依据“JIS B 8432”。
 ※4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
 ※5: 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
 ※1: This value varies from the installed position and the wrist load mass.
 ※2: Note that wrist moment of inertia varies depending on wrist load conditions.
 ※3: JIS B 8432 compliant.
 ※4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
 ※5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC10-2000

Product Introduction

The robot features a compact and lightweight design, with high-precision reducers installed in each joint. High-speed joint operation allows for flexible work within confined spaces. The J1J2J3J4J5J6 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its powerful wrist load capacity easily performs tasks such as handling, palletizing, loading/unloading.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

10kg
Maximum load

1984mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

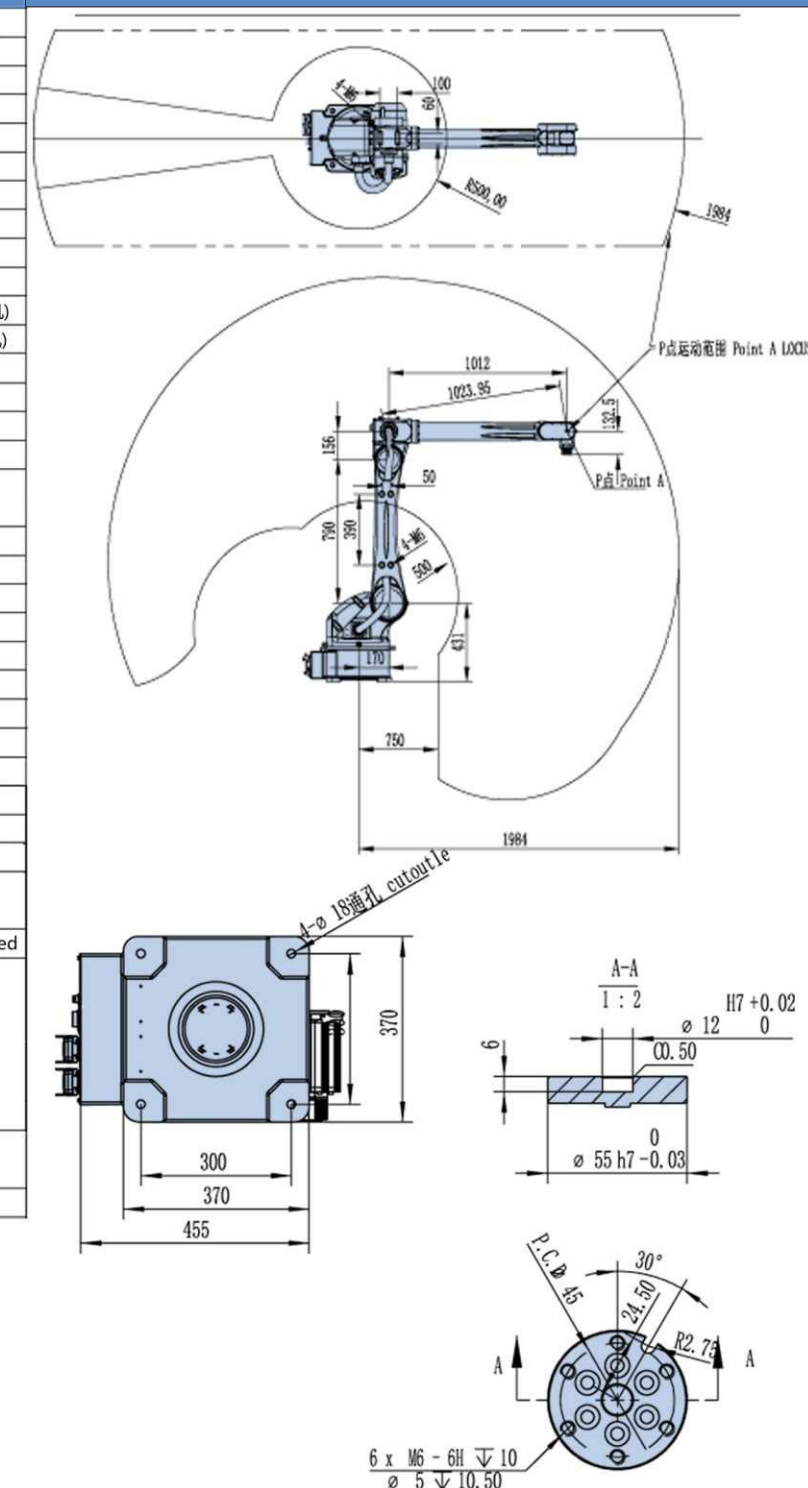
项目 Item	规格 Specifications	
机器人型号 Robot model	FC10-2000	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	10kg
	J4	20.4 N·m
手腕容许静负荷扭矩 Allowable static load torque for wrist	J5	20.4 N·m
	J6	12.7 N·m
	J4	0.42kg·m ²
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J5	0.42kg·m ²
	J6	0.15kg·m ²
	最大工作半径 Max. reach	1984 mm
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管(选配) Air piping(Optional)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.35kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	180KG	

1[rad] = 180/m[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
- *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3 : 依据“JIS B 8432”。
- *4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
- *1 : This value varies from the installed position and the wrist load mass.
- *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
- *3 : JIS B 8432 compliant.
- *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
- *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC13-2500

Product Introduction

The robot boasts a compact design and a lightweight, all-aluminum body (excluding the base), enabling faster operation. The J1, J2, and J3-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its compact wrist design features a double-sealed structure and IP67 protection, making it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

13kg
Maximum load

2500mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

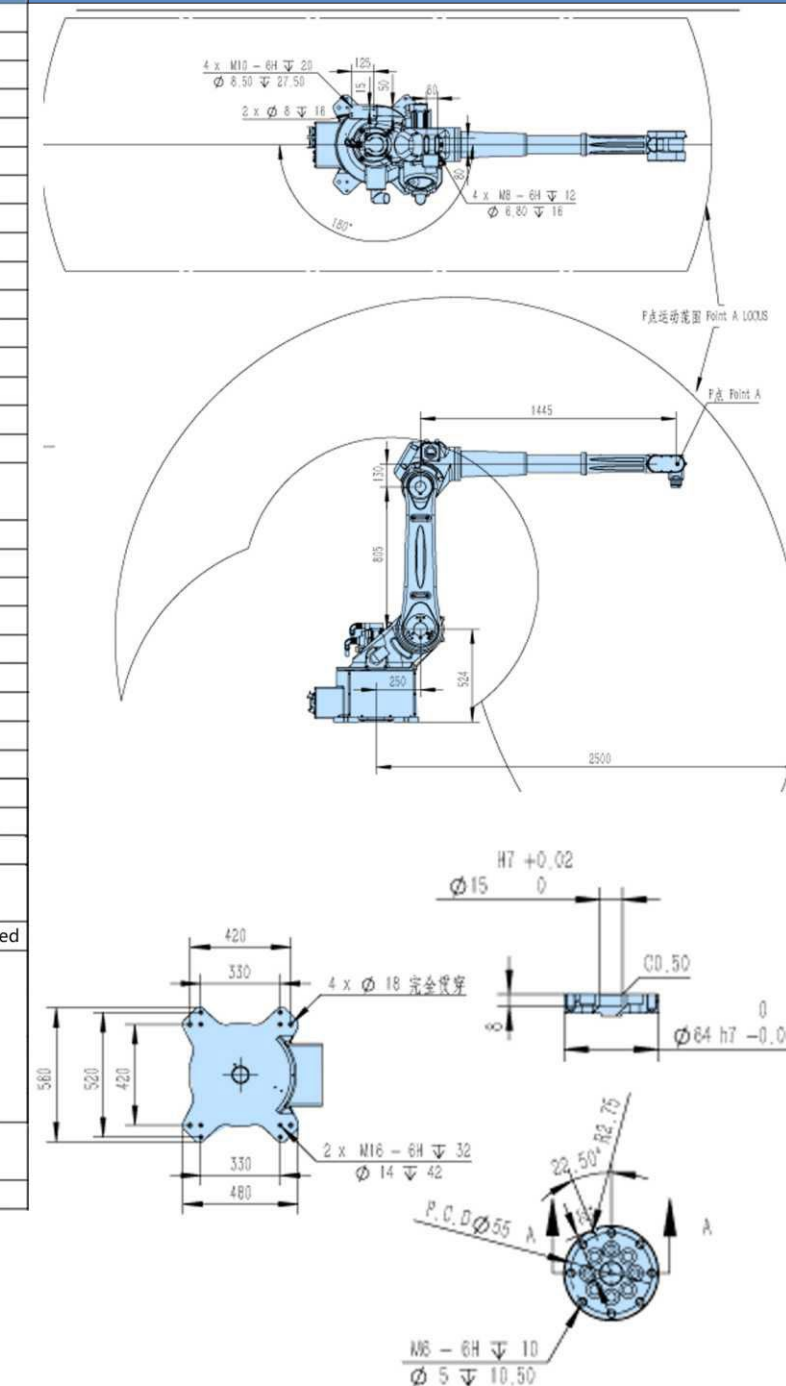
项目 Item	规格 Specifications	
机器人型号 Robot model	FC13-2500	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+100 ~ -60°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	162°/s, 2.82rad/s
	J2	110°/s, 1.92rad/s
	J3	148°/s, 2.58rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.92rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	13kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	42N·m
	J5	42 N·m
	J6	20 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	1.18kg·m ²
	J5	2.36kg·m ²
	J6	0.5kg·m ²
最大工作半径 Max. reach	2500mm	
位置反复精度*3 Position repeatability	±0.08 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	7.0kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6.9M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54/手腕IP67	
本体质量 Robot mass	约300kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
 *2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
 *3 : 依据 "JIS B 8432"
 *4 : 在海拔1000m以下使用, 超过容许高度时, 周围温度受到限制。
 *5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
 *1 : This value varies from the installed position and the wrist load mass.
 *2 : Note that wrist moment of inertia varies depending on wrist load conditions.
 *3 : JIS B 8432 compliant.
 *4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
 *5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC25-1800

Product Introduction

The robot boasts a compact design and an all-aluminum arm, resulting in lightweight construction and faster speed. The J1 axis features a hollow core for easy cable routing, while the J2 and J3 axes utilize direct-drive transmission via reducers and servo motors. This eliminates intermediate transmission components, leading to higher precision and durability, minimizing the risk of oil leaks, reducing noise, and decreasing the likelihood of malfunctions. The arm's compact design, double-sealed structure, and IP67 protection rating make it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

25kg

Maximum load

1750mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC25-1800	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±165°
	J2	+65 ~ -120°
	J3	+100 ~ -60°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	128°/s, 2.23rad/s
	J2	110°/s, 1.92rad/s
	J3	148°/s, 2.58rad/s
	J4	450°/s, 7.85rad/s
	J5	360°/s, 6.28rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	25kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	42N·m
	J5	42 N·m
	J6	20 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	1.18kg·m ²
	J5	1.18kg·m ²
	J6	0.5kg·m ²
最大工作半径 Max. reach	1750mm	
位置反复精度*3 Position repeatability	±0.08 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	6.7kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54/手腕IP67	
本体质量 Robot mass	约260kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据 "JIS B 8432"。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

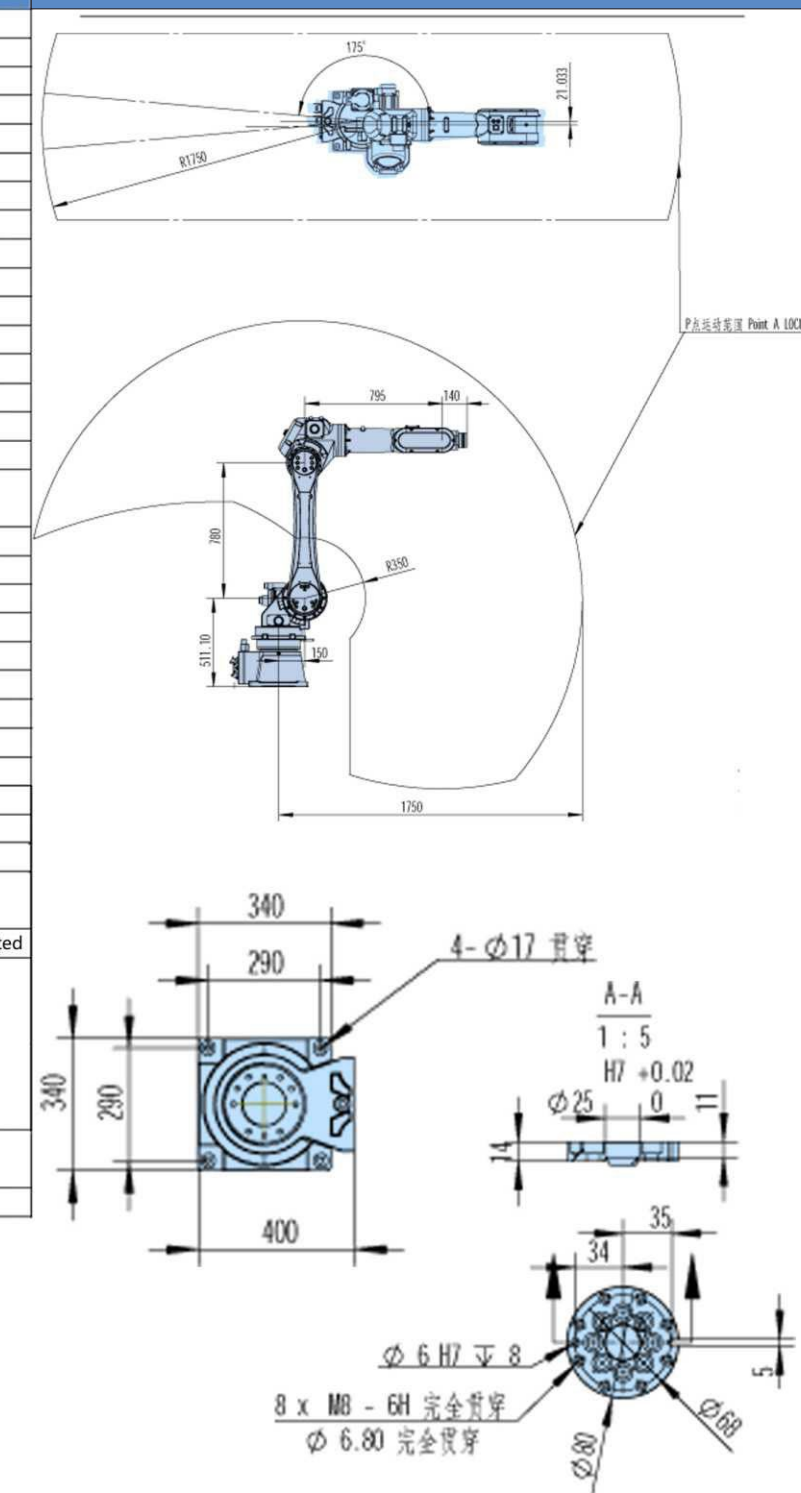
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC30-1800

Product Introduction

The robot boasts a compact design and an all-aluminum arm, resulting in lightweight construction and faster speed. The J1 axis features a hollow core for easy cable routing, while the J2 and J3 axes utilize direct-drive transmission via reducers and servo motors. This eliminates intermediate transmission components, leading to higher precision and durability, minimizing the risk of oil leaks, reducing noise, and decreasing the likelihood of malfunctions. The arm's compact design, double-sealed structure, and IP67 protection rating make it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

30kg

Maximum load

1750mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

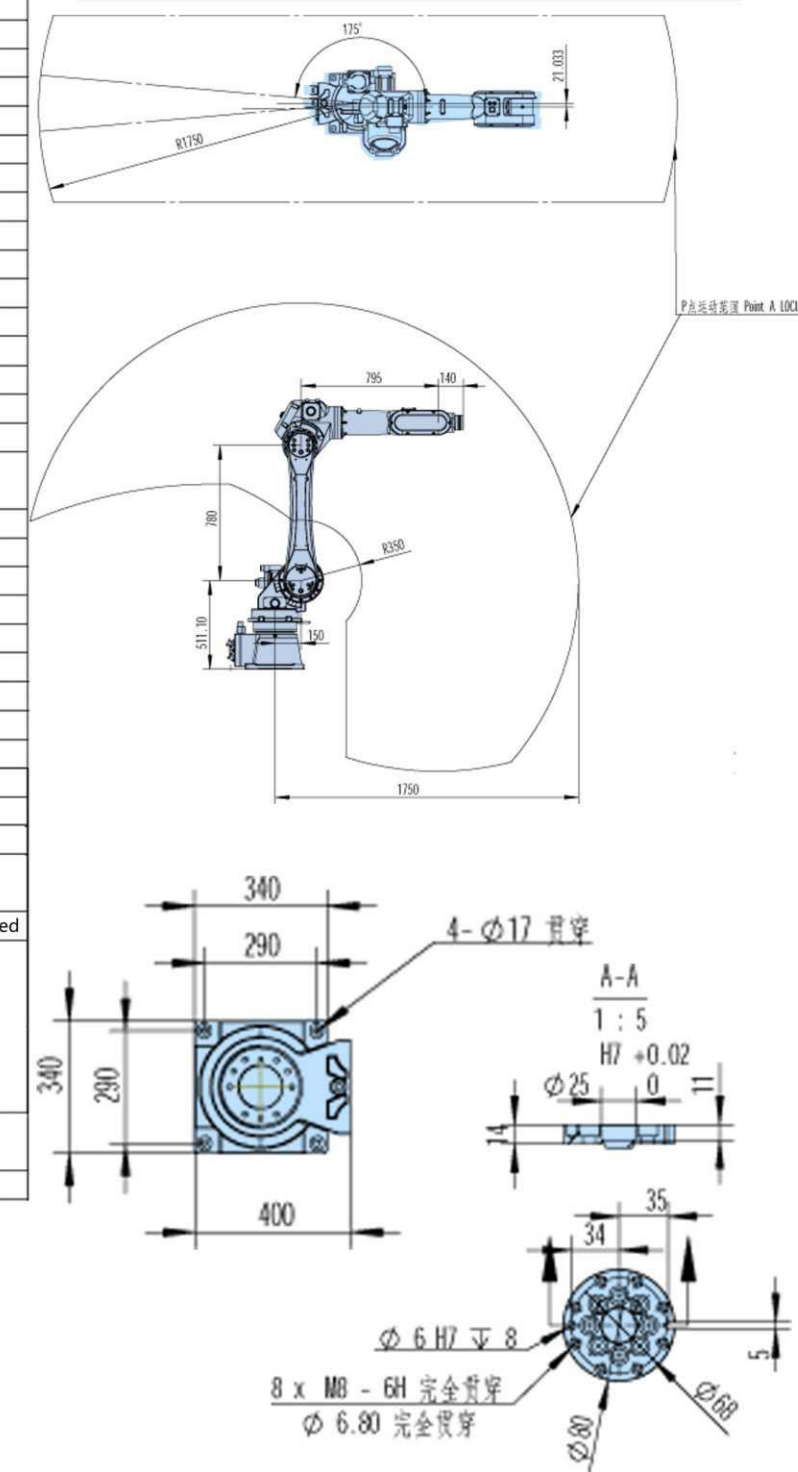
项目 Item	规格 Specifications	
机器人型号 Robot model	FC30-1800	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±165°
	J2	+65 ~ -120°
	J3	+100 ~ -60°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	128°/s, 2.23rad/s
	J2	110°/s, 1.92rad/s
	J3	148°/s, 2.58rad/s
	J4	450°/s, 7.85rad/s
	J5	360°/s, 6.28rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	30kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	42N·m
	J5	42 N·m
	J6	20 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	1.18kg·m ²
	J5	1.18kg·m ²
	J6	0.5kg·m ²
最大工作半径 Max. reach	1750mm	
位置反复精度*3 Position repeatability	±0.08 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	6.9kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54/手腕IP67	
本体质量 Robot mass	约260kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- *1 : 安装场所因手腕负荷质量变化。
*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
*3 : 依据 "JIS B 8432"。
*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
*5 : 有机溶剂、酸类、碱类、氧类、汽油类切削液等, 让密封材料劣化的液体不可使用。
*1 : This value varies from the installed position and the wrist load mass.
*2 : Note that wrist moment of inertia varies depending on wrist load conditions.
*3 : JIS B 8432 compliant.
*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE





FC35-1900

Product Introduction

The robot boasts a compact design and a lightweight, all-aluminum body (excluding the base), enabling faster operation. The J1, J2, and J3-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its compact wrist design features a double-sealed structure and IP67 protection, making it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

35kg

Maximum load

1850mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC35-1900	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+100 ~ -60°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	162°/s, 2.82rad/s
	J2	100°/s, 1.75rad/s
	J3	130°/s, 2.27rad/s
	J4	400°/s, 6.98rad/s
	J5	360°/s, 6.28rad/s
	J6	360°/s, 6.28rad/s
最大负载 Maximum load	手腕部*1 Wrist	35kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	42N·m
	J5	42 N·m
	J6	20 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	1.18kg·m ²
	J5	1.18kg·m ²
	J6	0.5kg·m ²
最大工作半径 Max. reach		1850mm
位置反复精度*3 Position repeatability		±0.08 mm
空气配管 (选配) Air piping (Option)		φ10×1
噪音水平 Noise level		70dB(A)
额定功率 Rate power		7.5kW
额定电压 Rate voltage		单相AC220V Single-phase 220V
本体-柜体连接长度 Length of cable between body and cabinet		6M
设置方法 Installation		地面安装 悬吊安装 Floor mounted Ceiling mounted
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance		IP54/手腕IP67
本体质量 Robot mass		约290kg

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据 "JIS B 8432"。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

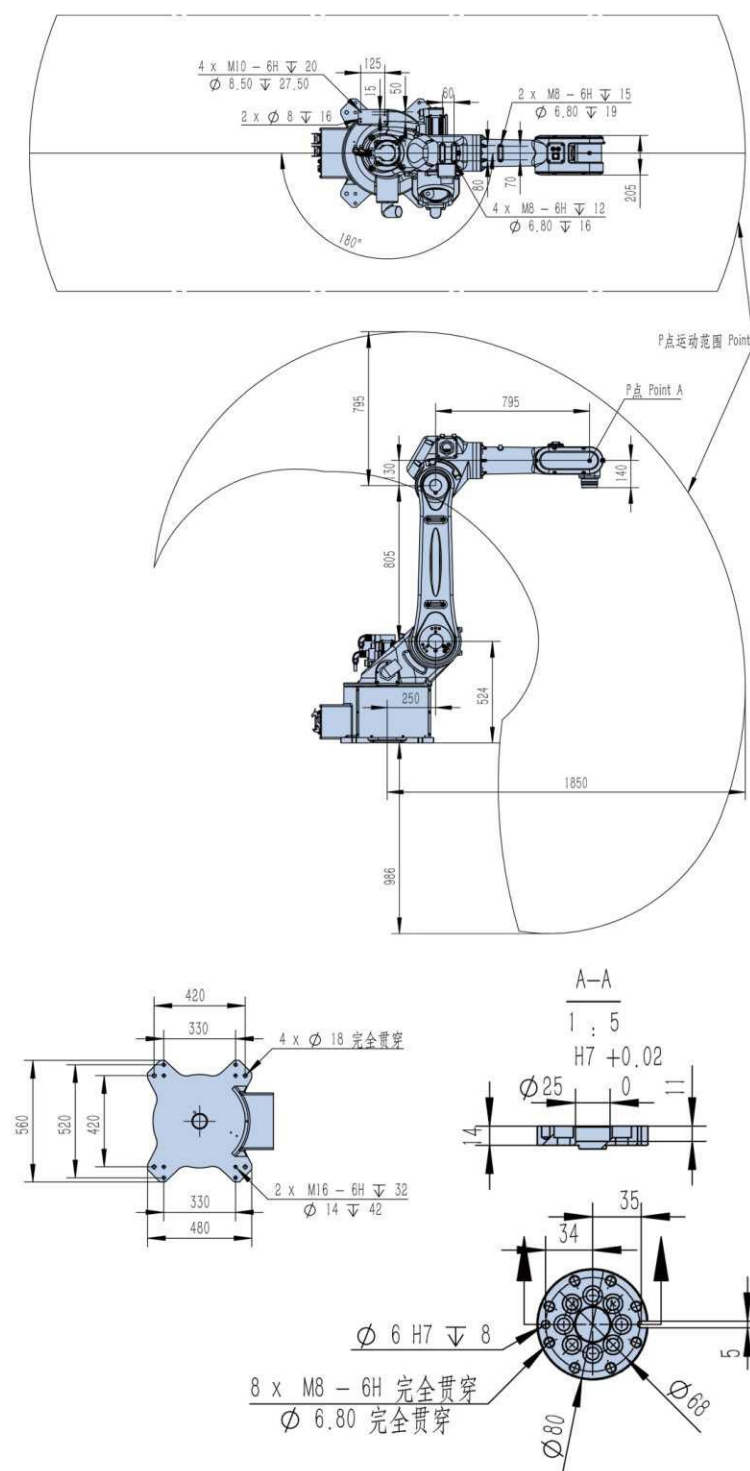
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC40-1900

Product Introduction

The robot boasts a compact design and a lightweight, all-aluminum body (excluding the base), enabling faster operation. The J1, J2, and J3-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its compact wrist design features a double-sealed structure and IP67 protection, making it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models



40kg

Maximum load

1850mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

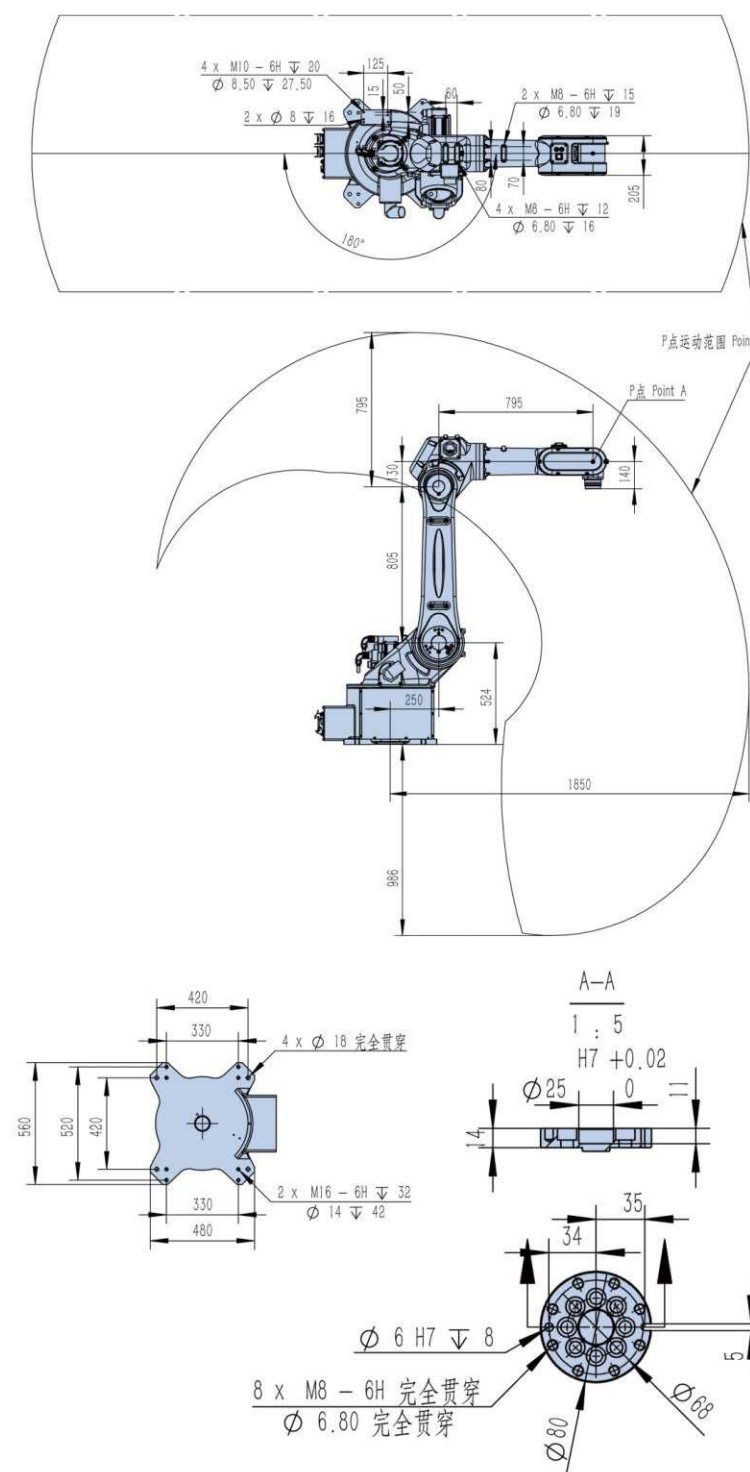
项目 Item	规格 Specifications	
机器人型号 Robot model	FC40-1900	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+100 ~ -60°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	162°/s, 2.82rad/s
	J2	100°/s, 1.75rad/s
	J3	130°/s, 2.27rad/s
	J4	400°/s, 6.98rad/s
	J5	360°/s, 6.28rad/s
	J6	360°/s, 6.28rad/s
最大负载 Maximum load	手腕部*1 Wrist 40kg	
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	42N·m
	J5	42 N·m
	J6	20 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	1.18kg·m ²
	J5	1.18kg·m ²
	J6	0.5kg·m ²
最大工作半径 Max. reach	1850mm	
位置反复精度*3 Position repeatability	±0.08 mm	
空气配管 (选配) Air piping (Option)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	8.1kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0~45℃*4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20~85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54/手腕IP67	
本体质量 Robot mass	约290kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- ※1: 安装场所因手腕负荷质量变化。
 ※2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
 ※3: 依据“JIS B 8432”。
 ※4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
 ※5: 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
 ※1: This value varies from the installed position and the wrist load mass.
 ※2: Note that wrist moment of inertia varies depending on wrist load conditions.
 ※3: JIS B 8432 compliant.
 ※4: When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.
 ※5: Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC50-2500

Product Introduction

The robot boasts a compact design and a lightweight, all-aluminum body (excluding the base), enabling faster operation. The J1, J2, and J3-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its compact wrist design features a double-sealed structure and IP67 protection, making it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

50kg
Maximum load

2500mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC50-2500	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+100 ~ -135°
	J3	+142 ~ -70°
	J4	±200°
	J5	+125 ~ -125°
	J6	±360°
最大速度 Axis Max. speed	J1	125°/s, 2.18rad/s
	J2	105°/s, 1.83rad/s
	J3	125°/s, 2.18rad/s
	J4	205°/s, 3.57rad/s
	J5	246°/s, 4.29rad/s
	J6	370°/s, 6.45rad/s
最大负载 Maximum load	手腕部*1 Wrist	50kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	
	J5	
	J6	
最大工作半径 Max. reach	2500mm	
位置反复精度*3 Position repeatability	±0.08mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	15.8kW	
额定电压 Rate voltage	三相AC380V Three-phase AC380V	
本体-柜体连接线长度 Length of cable between body and cabinet	7.5M	
设置方法 Installation	地面安装 Floor mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 80% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	约595kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据 "JIS B 8432"。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

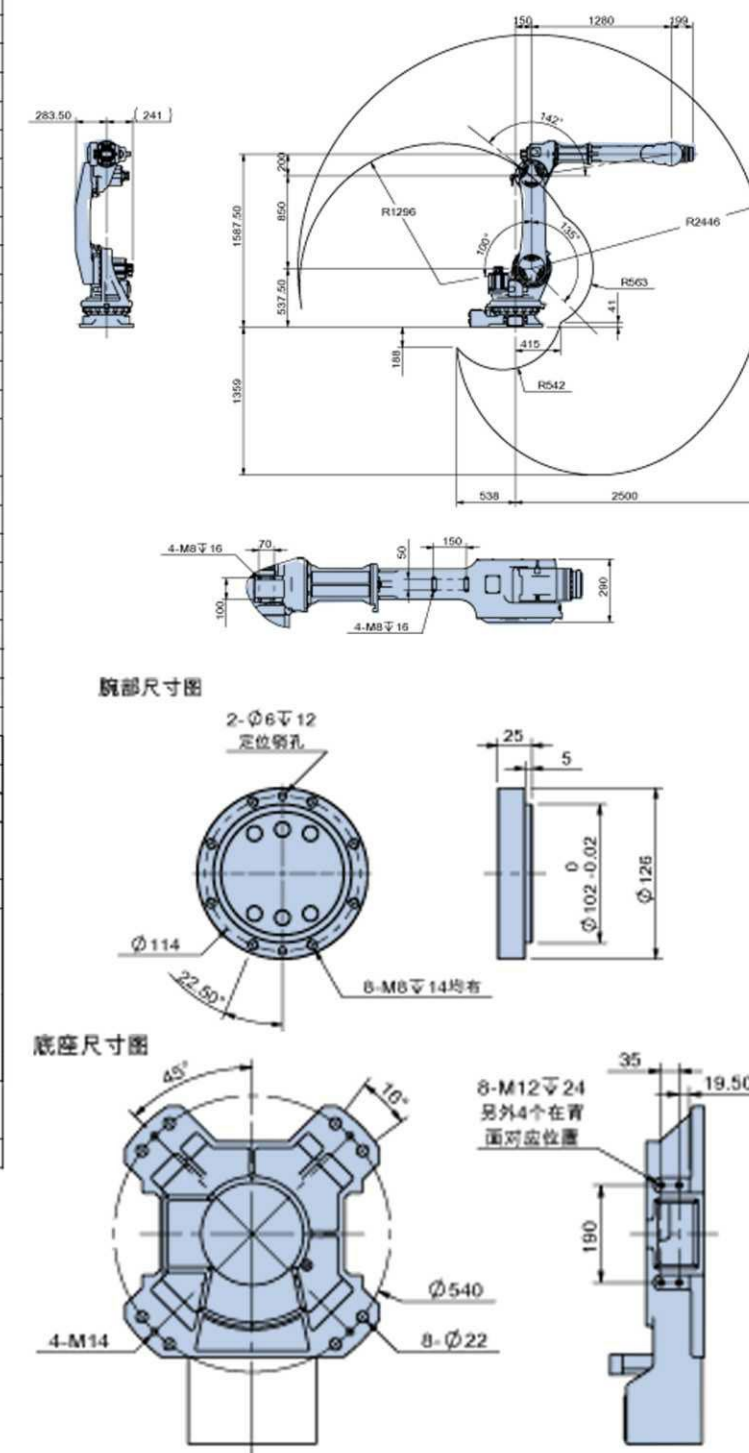
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC70-2500

Product Introduction

The robot boasts a compact design and a lightweight, all-aluminum body (excluding the base), enabling faster operation. The J1, J2, and J3-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its compact wrist design features a double-sealed structure and IP67 protection, making it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

70kg
Maximum load

2500mm
Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying
High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC70-2500	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+100 ~ -135°
	J3	+142 ~ -70°
	J4	±200°
	J5	+125 ~ -125°
	J6	±360°
最大速度 Axis Max. speed	J1	125°/s, 2.18rad/s
	J2	105°/s, 1.83rad/s
	J3	125°/s, 2.18rad/s
	J4	205°/s, 3.57rad/s
	J5	246°/s, 4.29rad/s
	J6	370°/s, 6.45rad/s
最大负载 Maximum load	手腕部*1 Wrist	70kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	
	J5	
	J6	
最大工作半径 Max. reach	2500mm	
位置反复精度*3 Position repeatability	±0.08mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	16.8kW	
额定电压 Rate voltage	三相AC380V Three-phase AC380V	
本体-柜体连接长度 Length of cable between body and cabinet	7.5M	
设置方法 Installation	地面安装 Floor mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions	
	周围湿度 : 20 ~ 80% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	约595kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据“JIS B 8432”。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶剂、酸类、碱类、氧类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

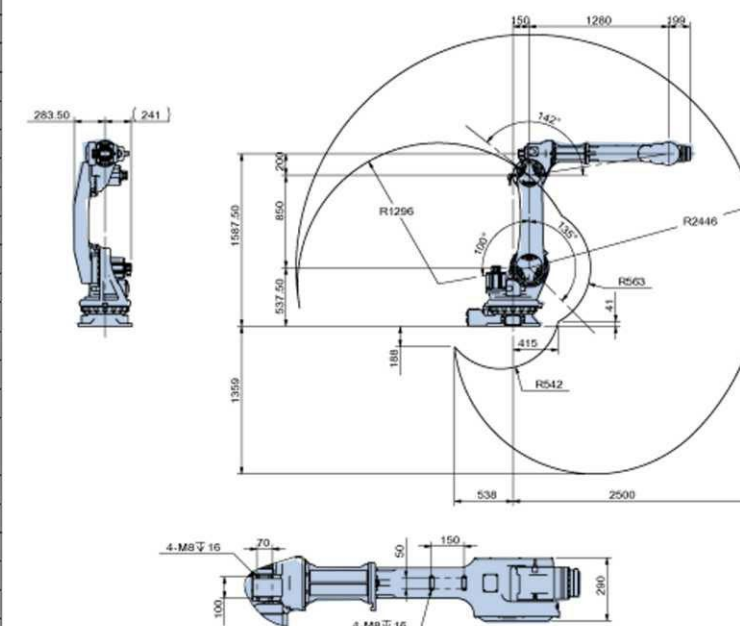
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

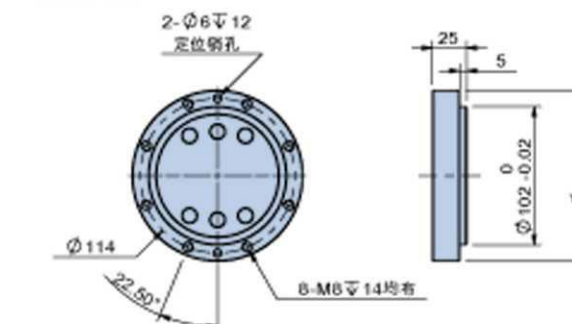
*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

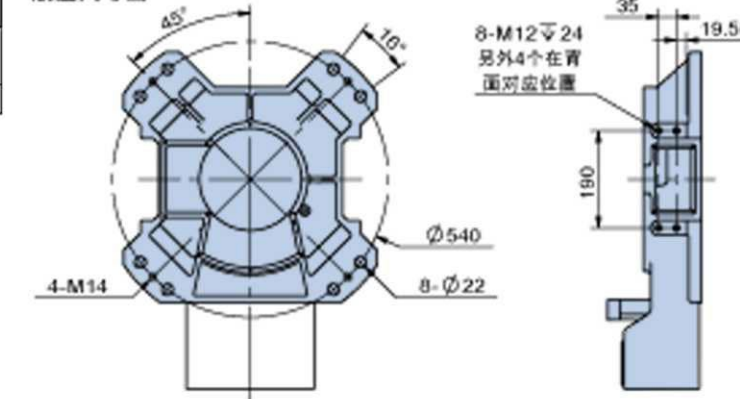
WORKING SPACE



腕部尺寸图



底座尺寸图



FC100-2100

Product Introduction

The robot boasts a compact design and a lightweight, all-aluminum body (excluding the base), enabling faster operation. The J1, J2, and J3-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components for higher precision and durability, minimizing oil leakage risk, reducing noise, and decreasing malfunctions. Its compact wrist design features a double-sealed structure and IP67 protection, making it suitable for applications requiring high protection, such as die-casting.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

100kg

Maximum load

2100mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Spraying

High speed, high repeatability, high protection level, compact structure, highly flexible, lightweight design, easy to hoist.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC100-2100	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±170°
	J2	+100 ~ -135°
	J3	+140 ~ -80°
	J4	±150°
	J5	+125 ~ -125°
	J6	±360°
最大速度 Axis Max. speed	J1	126°/s, 2.19rad/s
	J2	95°/s, 1.65rad/s
	J3	99°/s, 1.72rad/s
	J4	201.5°/s, 3.51rad/s
	J5	145°/s, 2.53rad/s
	J6	217°/s, 3.78rad/s
最大负载 Maximum load	手腕部*1 Wrist	100kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	
	J5	
	J6	
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	
	J5	
	J6	
最大工作半径 Max. reach	2100mm	
位置反复精度*3 Position repeatability	±0.08 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	16.8kW	
额定电压 Rate voltage	三相AC380V Three-phase AC380V	
本体-柜体连接长度 Length of cable between body and cabinet	7.5M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature 设置条件 Ambient conditions	
	周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	约520kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据 "JIS B 8432"。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

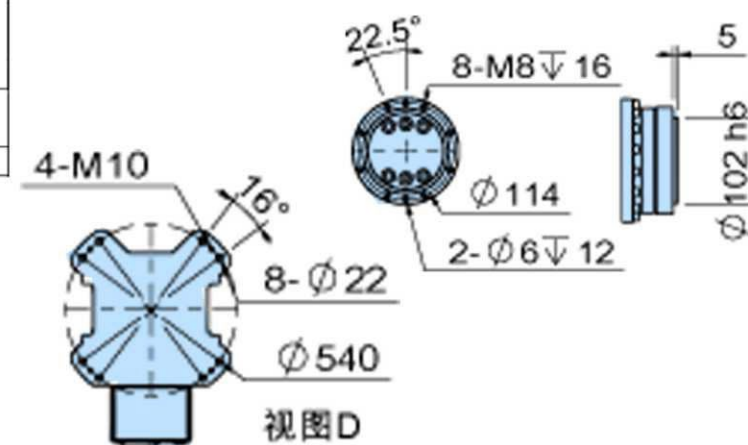
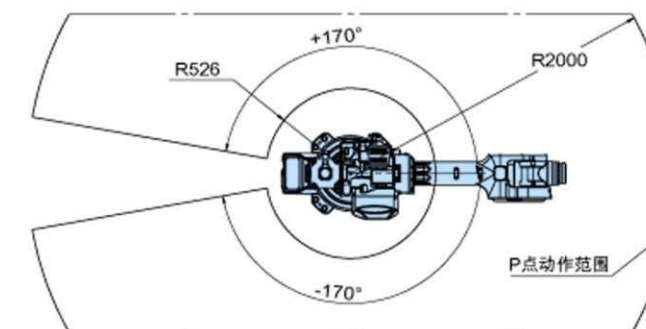
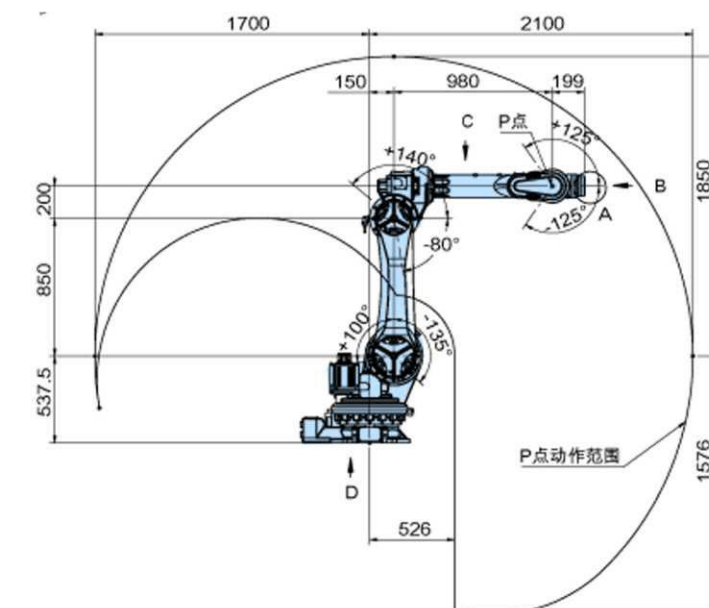
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC210-2700

Product Introduction

The robot is equipped with a 3-axis wrist. The wrist includes axes 4, 5, and 6. The motor for axis 6 is directly mounted on the manipulator inside the forearm. This motor directly drives the manipulator, while axes 4 and 5 are driven by motors mounted on the back of the forearm via connecting shafts. The wrist has a connecting flange (125mm pitch circle) for tool attachment. The wrist is reinforced with additional measures to meet higher requirements for resistance to temperature, dust, and corrosion. The wrist meets IP65 requirements.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

210kg

Maximum load

2700mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing

High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading

High speed, high repeatability, space-saving, compact structure, and highly flexible.

Polishing

High protection level; large wrist torque.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC210-2700	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±185°
	J2	+85 ~ -50°
	J3	+210 ~ -65°
	J4	±350°
	J5	+125 ~ -125°
	J6	±350°
最大速度 Axis Max. speed	J1	123°/s, 2.14rad/s
	J2	115°/s, 2.0rad/s
	J3	112°/s, 1.95rad/s
	J4	179°/s, 3.12rad/s
	J5	172°/s, 3.0ad/s
	J6	219°/s, 3.82rad/s
最大负载 Maximum load	手腕部*1 Wrist	210kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	1250 N·m
	J5	1250 N·m
	J6	700 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	149kg·m ²
	J5	149kg·m ²
	J6	105kg·m ²
最大工作半径 Max. reach	2700mm	
位置反复精度*3 Position repeatability	±0.1 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	75dB(A)	
额定功率 Rate power	32.4kW	
额定电压 Rate voltage	三相AC380V Three-phase AC380V	
本体-柜体连接线长度 Length of cable between body and cabinet	7.0M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation) 安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	约1131kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据 "JIS B 8432"。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶剂、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

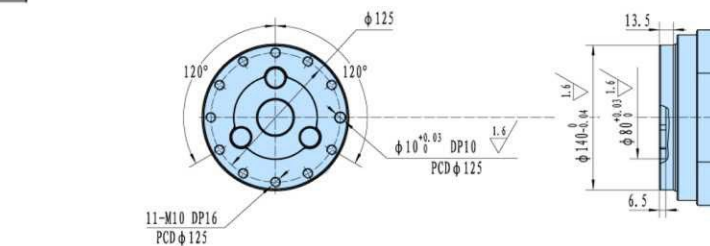
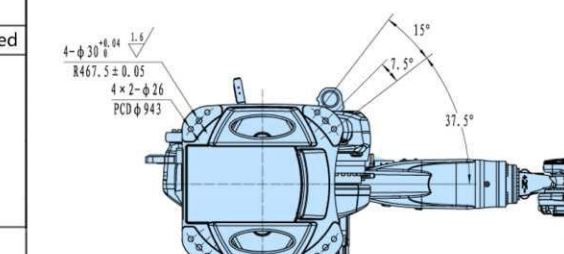
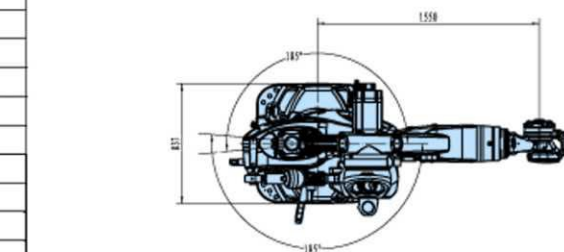
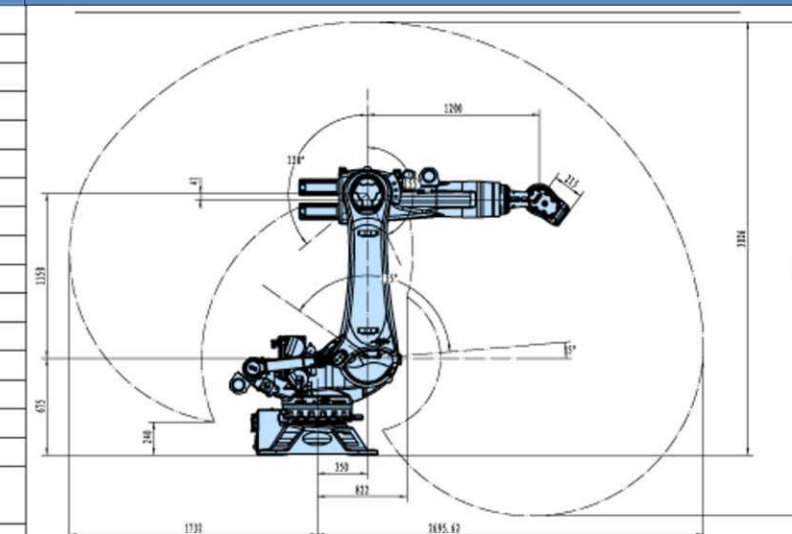
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FC210-3100

Product Introduction

The robot is equipped with a 3-axis wrist. The wrist includes axes 4, 5, and 6. The motor for axis 6 is directly mounted on the manipulator inside the forearm. This motor directly drives the manipulator, while axes 4 and 5 are driven by motors mounted on the back of the forearm via connecting shafts. The wrist has a connecting flange (125mm pitch circle) for tool attachment. The wrist is reinforced with additional measures to meet higher requirements for resistance to temperature, dust, and corrosion. The wrist meets IP65 requirements.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models

210kg

Maximum load

3100mm

Operating radius

产品应用

PRODUCT APPLICATION

Material Handling & Palletizing
High-speed operation maximizes throughput, offers extended uptime, and saves floor space through fixed automation.

Injection molding machine part handling/machine tool loading and unloading
High speed, high repeatability, space-saving, compact structure, and highly flexible.

Polishing
High protection level; large wrist torque.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FC210-3100	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±185°
	J2	+85 ~ -50°
	J3	+210 ~ -65°
	J4	±350°
	J5	+125 ~ -125°
	J6	±350°
最大速度 Axis Max. speed	J1	105°/s, 1.83rad/s
	J2	94°/s, 1.64rad/s
	J3	100°/s, 1.74rad/s
	J4	136°/s, 2.37rad/s
	J5	129°/s, 2.25ad/s
	J6	206°/s, 3.59rad/s
最大负载 Maximum load	手腕部*1 Wrist	210kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	1250 N·m
	J5	1250 N·m
	J6	700 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	149kg·m ²
	J5	149kg·m ²
	J6	105kg·m ²
最大工作半径 Max. reach	3100mm	
位置反复精度*3 Position repeatability	±0.1 mm	
空气配管 (选配) Air piping (Option)		
噪音水平 Noise level	75dB(A)	
额定功率 Rate power	32.4kW	
额定电压 Rate voltage	三相AC380V Three-phase AC380V	
本体-柜体连接线长度 Length of cable between body and cabinet	7.0M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP54	
本体质量 Robot mass	约1200kg	

[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

*1 : 安装场所因手腕负荷质量变化。

*2 : 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。

*3 : 依据 "JIS B 8432"。

*4 : 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。

*5 : 有机溶液、酸类、碱类、氧类、汽油类切削液等, 让密封材料劣化的液体不可使用。

*1 : This value varies from the installed position and the wrist load mass.

*2 : Note that wrist moment of inertia varies depending on wrist load conditions.

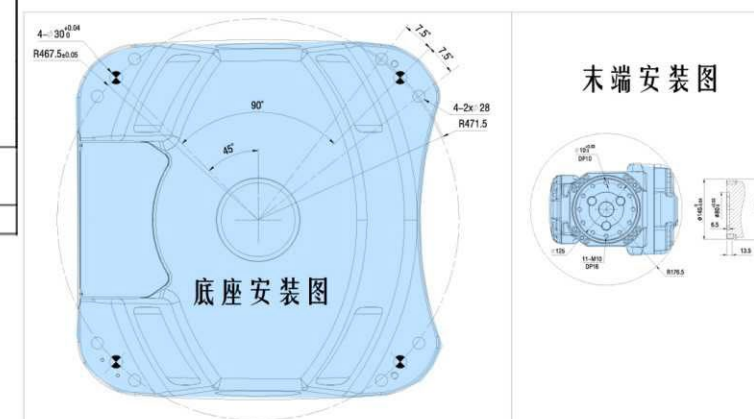
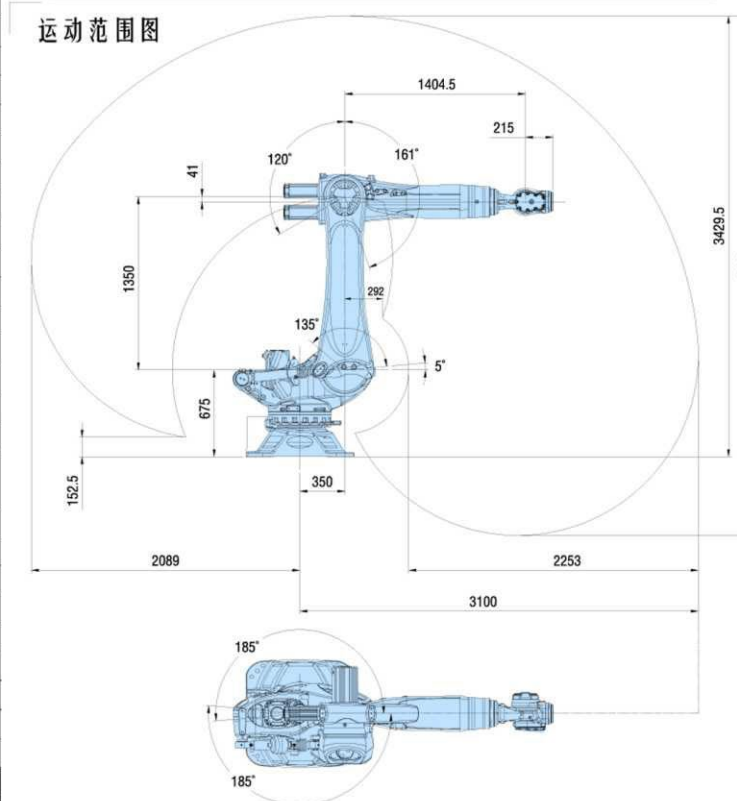
*3 : JIS B 8432 compliant.

*4 : When used at less than 1000 m above sea level. Exceeding the allowable altitude limits the acceptable ambient temperature.

*5 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis and petroleum-based cutting fluids, cannot be used.

工作空间

WORKING SPACE



FCH10-1600

Product Introduction

The robot features a compact, lightweight design and high-precision reducers installed in each joint for faster speeds. The J1J2J3J 6-axis reducers are directly connected to the servo motors, eliminating intermediate transmission components and resulting in higher precision. It is durable, minimizing the risk of oil leaks, reducing noise, and decreasing the likelihood of malfunctions. Its powerful wrist load capacity allows it to easily perform material handling tasks.

Product Features

1. High speed and high precision
2. Stable performance
3. Greater handling capacity
4. Simple operation, user-friendly graphical interface
5. Lower energy consumption, 30% more energy efficient than comparable models



10kg
Maximum load

1510mm
Operating radius

产品应用

PRODUCT APPLICATION

Spot Welding

High speed, high repeatability and positioning accuracy; high-quality welded joints, high strength, and strong weld points.

Arc Welding

Offers high speed and high trajectory positioning accuracy, enabling welding in multiple positions such as flat, vertical, horizontal, and overhead welding.

Specialized Welding

Laser welding, multi-layer and multi-pass welding of medium and thick plates, MAG/MIG pulsed welding, stainless steel pulsed MIG welding, etc.

技术指标

TECHNICAL INDICATORS

项目 Item	规格 Specifications	
机器人型号 Robot model	FCH10-1600	
结构 Structure	关节型 Articulated construction	
关节数 Number of axes	6	
驱动方式 Drive system	AC伺服方式 AC servo system	
最大动作范围 Max. working range	J1	±180°
	J2	+75 ~ -110°
	J3	+110 ~ -75°
	J4	±180°
	J5	+30 ~ -200°
	J6	±360°
最大速度 Axis Max. speed	J1	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J2	148°/s, 2.58rad/s 297°/s, 5.18rad/s(高速电机)
	J3	297°/s, 5.18rad/s
	J4	450°/s, 7.85rad/s
	J5	225°/s, 3.93rad/s
	J6	450°/s, 7.85rad/s
最大负载 Maximum load	手腕部*1 Wrist	10kg
手腕容许静负荷扭矩 Allowable static load torque for wrist	J4	20.4 N·m
	J5	20.4 N·m
	J6	12.7 N·m
手腕容许最大惯性力矩*2 Allowable static load torque for wrist	J4	0.42kg·m ²
	J5	0.42kg·m ²
	J6	0.15kg·m ²
最大工作半径 Max. reach	1510 mm	
位置反复精度*3 Position repeatability	±0.05 mm	
空气配管(选配) Air piping(Optional)	φ10×1	
噪音水平 Noise level	70dB(A)	
额定功率 Rate power	4.35kW	
额定电压 Rate voltage	单相AC220V Single-phase 220V	
本体-柜体连接线长度 Length of cable between body and cabinet	6M	
设置方法 Installation	地面安装 悬吊安装 Floor mounted Ceiling mounted	
设置条件 Ambient conditions	周围温度 : 0 ~ 45 °C *4 Ambient temperature	
	设置条件 Ambient conditions 周围湿度 : 20 ~ 85% RH (应无结露) Ambient humidity (without condensation)	
	安装面的容许振动 : 0.5 G (4.9 m/s ²) 以下 Vibration	
耐环境性*5 Environmental performance	IP65	
本体质量 Robot mass	160 kg	

1[rad] = 180/m[°], 1[N·m] = 1/9.8[kgf·m]

- *1: 安装场所因手腕负荷质量变化。
- *2: 手腕容许惯性力矩可能随手腕的负荷条件而有差异, 请注意。
- *3: 依据“JIS B 8432”。
- *4: 在海拔1000m以下使用。超过容许高度时, 周围温度受到限制。
- *5: 有机溶液、酸类、碱类、氟类、汽油类切削液等, 让密封材料劣化的液体不可使用。
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工作空间

WORKING SPACE

