QJAR

QJR20-1600



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"We Understand Robotics"

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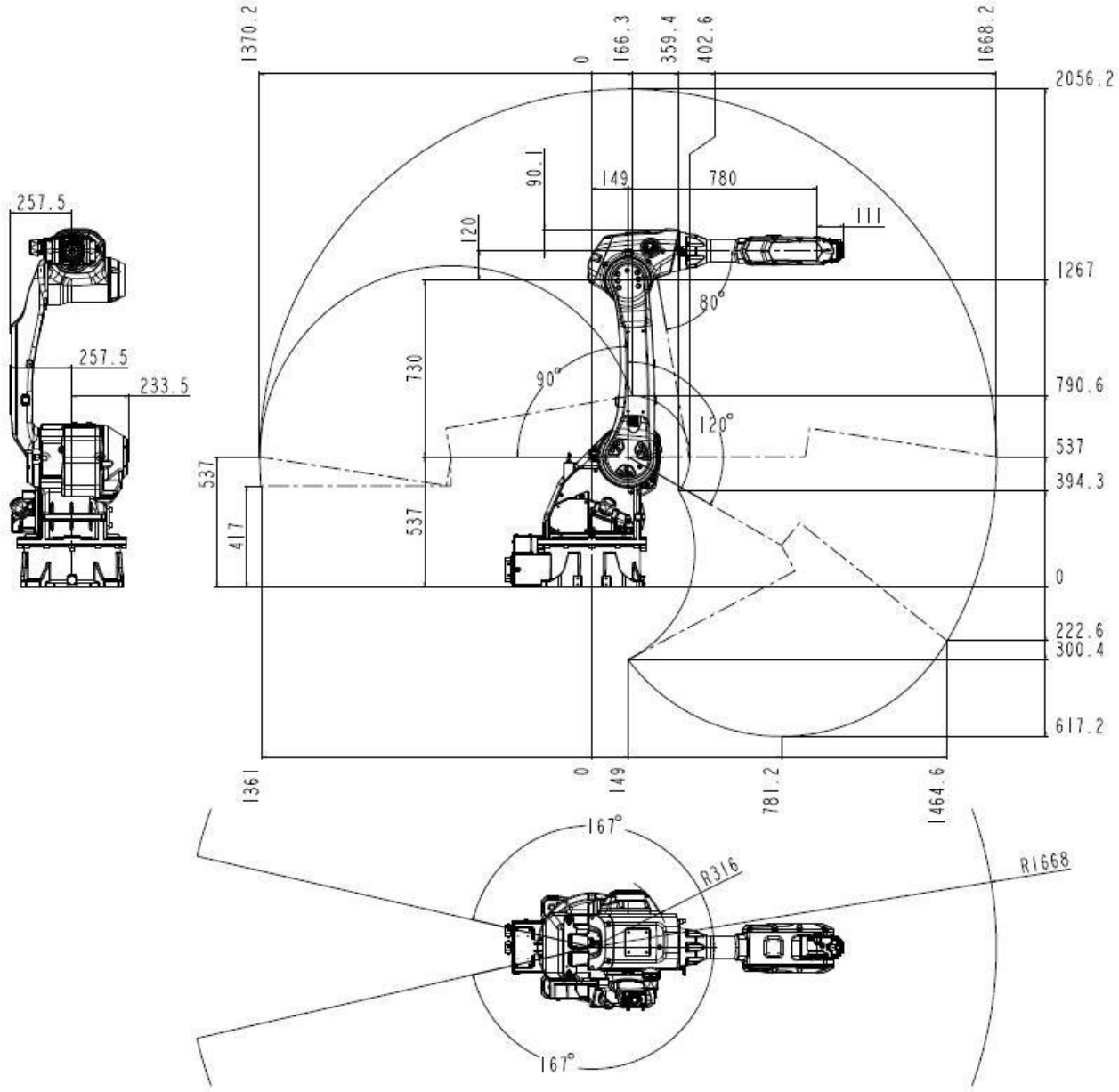
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QJR20-1600Basic specifications of robot

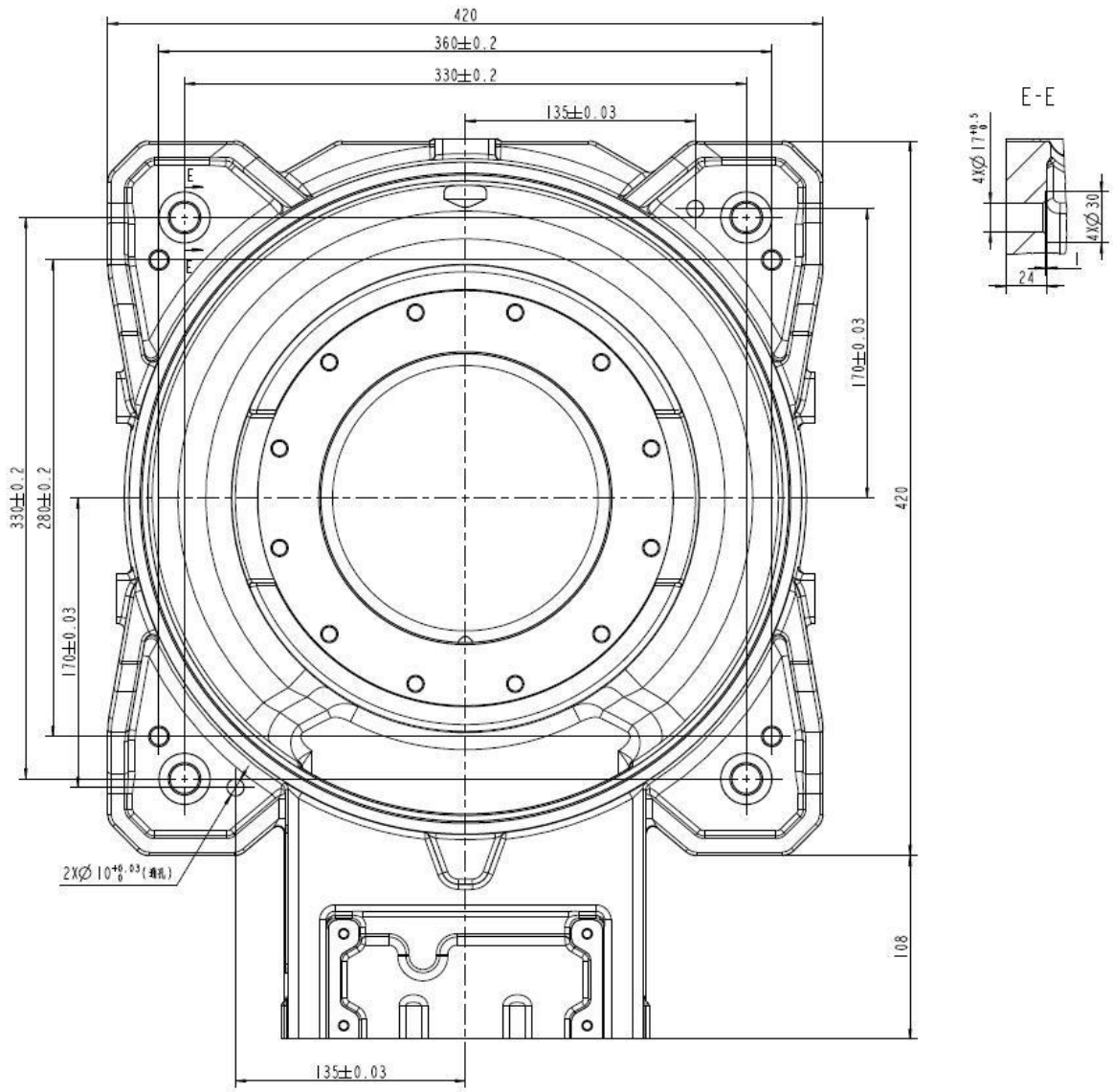
QJR20-1600 Basic specifications of robot		
Organization form		Vertical polyarthrosis
freedom		6
Payload		20kg
Brachial abduction		1668mm
Repeat positioning accuracy ^ 2		±0.05mm
Mechanical limit range	1 axis	±172°
	2 axis	+147°，-115°
	3 axis	+83°，-98°
	4 axis	±167°
	5 axis	±115°
	6 axis	±360°
Maximum speed	1 axis	2.7 rad/s
	2 axis	2.7 rad/s
	3 axis	3rad/s
	4 axis	6.2rad/s
	5 axis	6.2rad/s
	6 axis	6.2rad/s
Maximum acceleration	1 axis	12 rad/s^2
	2 axis	10 rad/s^2
	3 axis	15rad/s^2
	4 axis	20 rad/s^2
	5 axis	12 rad/s^2
	6 axis	20 rad/s^2
Allowable torque	4 axis	43.83 N.m
	5 axis	43.83 N.m
	6 axis	19.6N.m
Moment of inertia	4 axis	1 $kg.m^2$
	5 axis	1 $kg.m^2$

	6 axis	0.2 kg.m^2
Body weight		270 kg
Protection level		IP65、ExdpxIIBT4Gb
Installation environment	temperature	0~45 ℃
	humidity	20%~80% RH(No condensation)
	Vibration	<4.9m/s^2 (0.5G)
	other	Avoid flammable and corrosive gases and liquids; Avoid contact with water, oil, dust, etc; Keep away from electrical noise sources.
Power capacity		3.6kVA

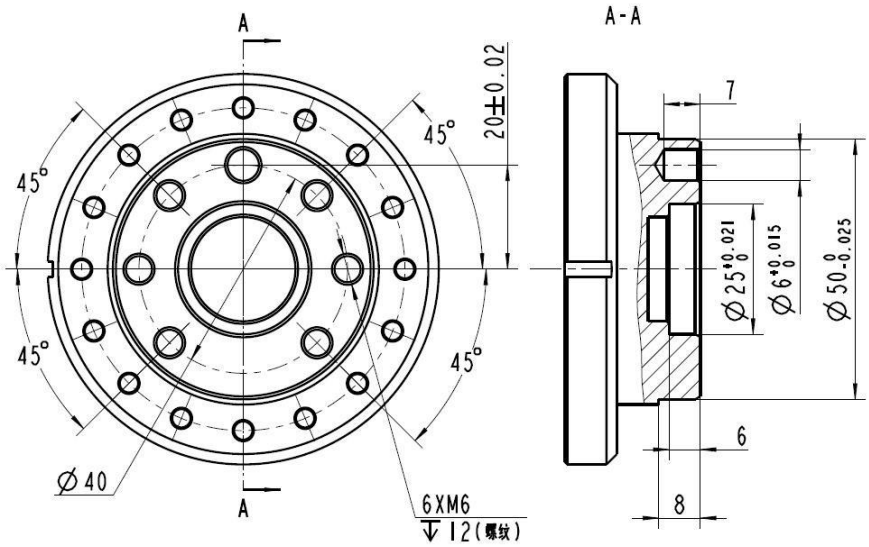
QJR20-1600Figure of robot's overall dimension and maximum action range



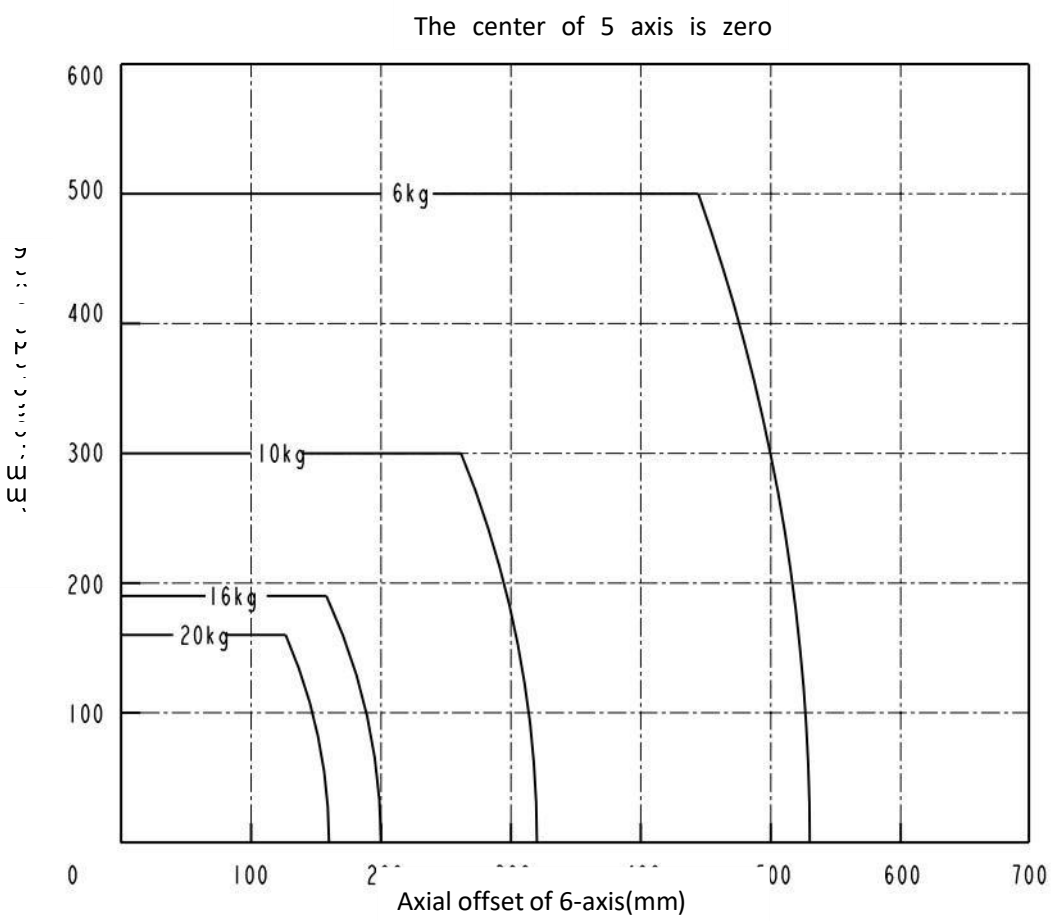
一、 QJR20-1600Installation dimension drawing of robot base



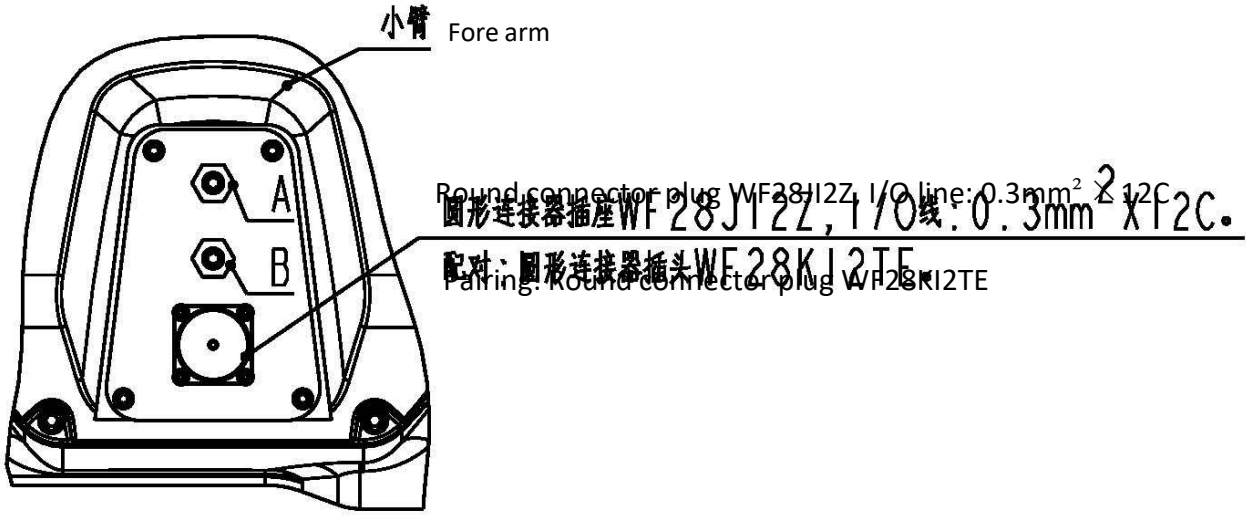
二、 QJR20-1600Installation dimension drawing of robot end

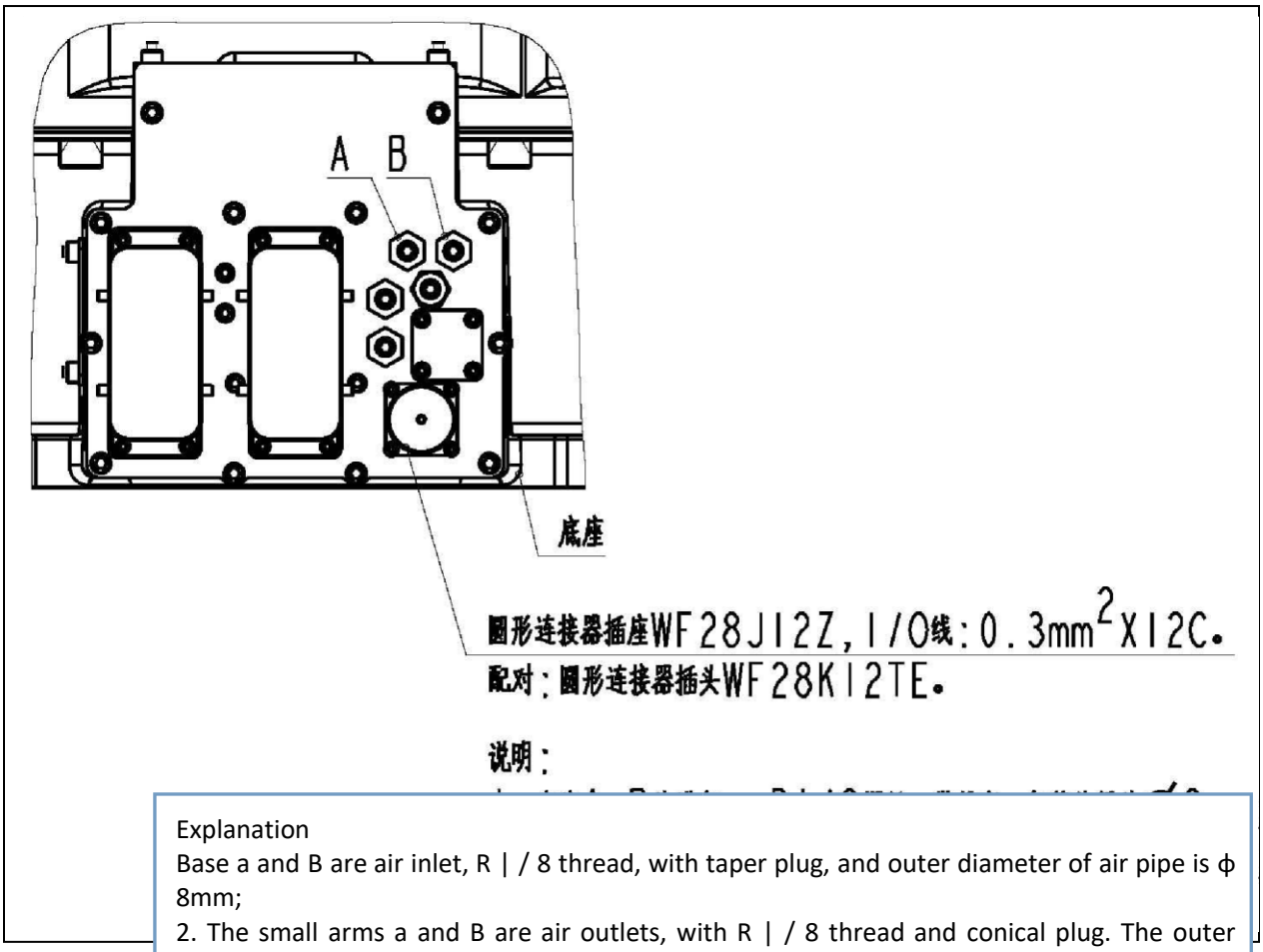


三、 QJR20-1600Robot load diagram



四、 Schematic diagram of the position of the air circuit and I / O interface of the machine





Explanation
Base a and B are air inlet, R | / 8 thread, with taper plug, and outer diameter of air pipe is ϕ 8mm;
2. The small arms a and B are air outlets, with R | / 8 thread and conical plug. The outer diameter of the air pipe is ϕ 8mm;
3. The base and the small arm position are communicated at the same position of the circular connector socket.

五、 QJR20-1600Robot finished product configuration table

QJR20-1600 Robot finished product configuration table	
Motor	Tamagawa、Gaohuachuangke
RV reducer	Nabtesco、domestic
Harmonic reducer	Shimpo
Controller	KEBA、QJAR
Drive	Tsino Dynatron

六、 QJR20-1600Configuration information of control cabinet

QJR20-1600 Control cabinet (non explosion proof)	
Control hardware	KEBA
Control cabinet software	KEBA
Power Supply	Three phase four wire AC380V(+10%,-10%)
Rated power	6.0KW
Power capacity	3.6KVA
Control cabinet size	580x650x960mm
Weight of control cabinet	130kg
ambient temperature	0-45℃
Maximum humidity	20%~80% RH（No condensation）
Protection level	IP54
operation panel	On the control cabinet
Programming unit	Color touch screen teaching box
Security	Emergency stop, automatic mode stop, remote mode stop
Input and output	Digital IO 26 input 32 output

QJR20-1600 Control cabinet (non explosion proof)	
Control hardware	QJAR controller
Control cabinet software	QJAR ethercat version operating system
Power Supply	Three phase four wire AC380V(+10%,-10%)
Rated power	6.0KW
Power capacity	3.6KVA

Control cabinet size	580x650x960mm
Weight of control cabinet	130kg
ambient temperature	0-45℃
Maximum humidity	20%~80% RH（No condensation）
Protection level	IP54
operation panel	On the control cabinet
Programming unit	Color touch screen teaching box
Security	Emergency stop, automatic mode stop, remote mode stop
Input and output	Digital IO 15 in 21 out

QJRB20-2 (explosion-proof) control cabinet	
Control hardware	QJAR controller
Control cabinet software	QJAR operating system
Power Supply	Three phase four wire AC380V(+10%,-10%)
Rated power	6.0KW
Power capacity	3.6KVA
Control cabinet size	650x750x1150mm
Weight of control cabinet	140kg
ambient temperature	0-45℃
Maximum humidity	20%~80% RH（No condensation）
Protection level	IP54
operation panel	On the control cabinet

Programming unit	Color touch screen teaching box
Security	Emergency stop, automatic mode stop, remote mode stop
Input and output	Digital IO 14 in 21 out