QJR6-1



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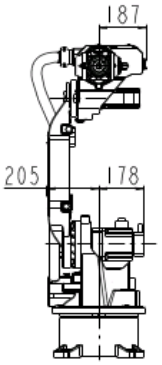
Specifications and Drawings of QJR6-1

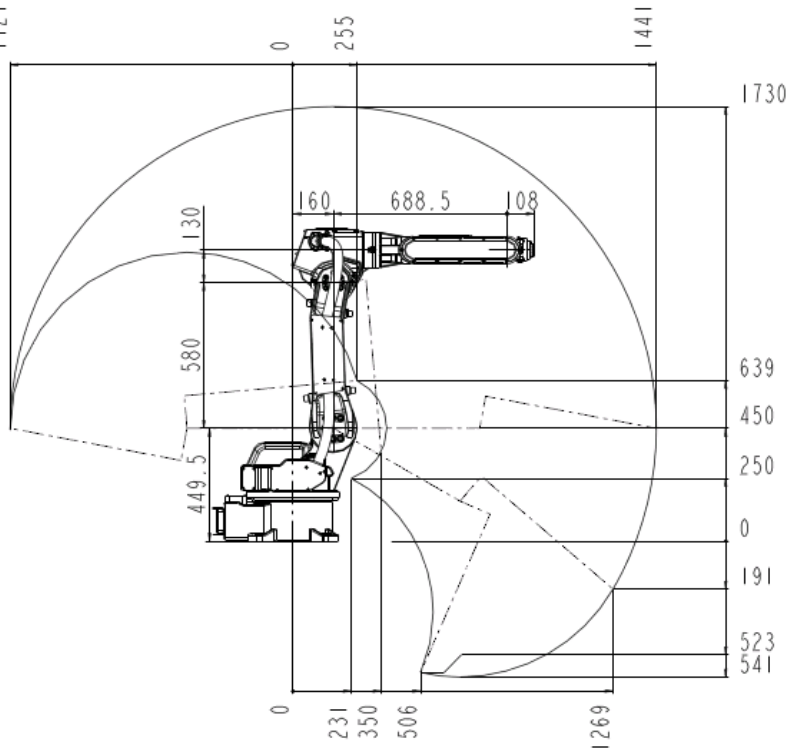
I. QJR6-1Robot basic specification table

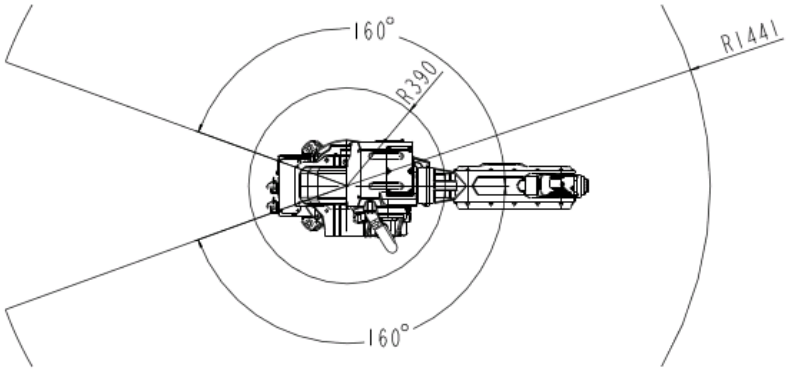
QJR6-1 Basic specification sheet			
Body shape		Vertical multiarticular	
Degrees of freedom		6	
The payload		6kg	
Arm span		1441mm	
Repeated positioning accuracy ^2		±0.03mm	
Mechanical limit range	1axis	±168°	
	2axis	+150° , -86°	
	3axis	+87° , -110°	
	4axis	±170°	
	5axis	±125°	
	6axis	±360°	
Maximum speed	1axis	3.5 rad/s	200 °/ s
	2axis	3.1 rad/s	177 °/ s
	3axis	3.5 rad/s	200 °/ s
	4axis	7.5 rad/s	429 °/ s
	5axis	7.5 rad/s	429 °/ s
	6axis	10.5 rad/s	601 °/ s
Maximum acceleration	1axis	14 rad/s^2	802 °/s^2
	2axis	12 rad/s^2	687 °/s^2
	3axis	25 rad/s^2	1432 °/s^2
	4axis	50 rad/s^2	2864 °/s^2
	5axis	50 rad/s^2	2864 °/s^2
	6axis	70 rad/s^2	4010 °/s^2
Allow the torque	4axis	13.1 N.m	
	5axis	13.1 N.m	
	6axis	5.9 N.m	
Inertia moment	4axis	0.3 kg.m^2	
	5axis	0.3 kg.m^2	
	6axis	0.06 kg.m^2	

Body weight		170 kg
Installation environment	temperature	0~45 ℃
	humidity	20%~80% RH(no condensation)
	vibration	<4.9m/s2 (0.5G)
	other	Avoid flammable, corrosive gases and liquids; Avoid contact with water, oil, dust, etc. Keep away from electrical noise sources.
The power capacity		2.7kVA

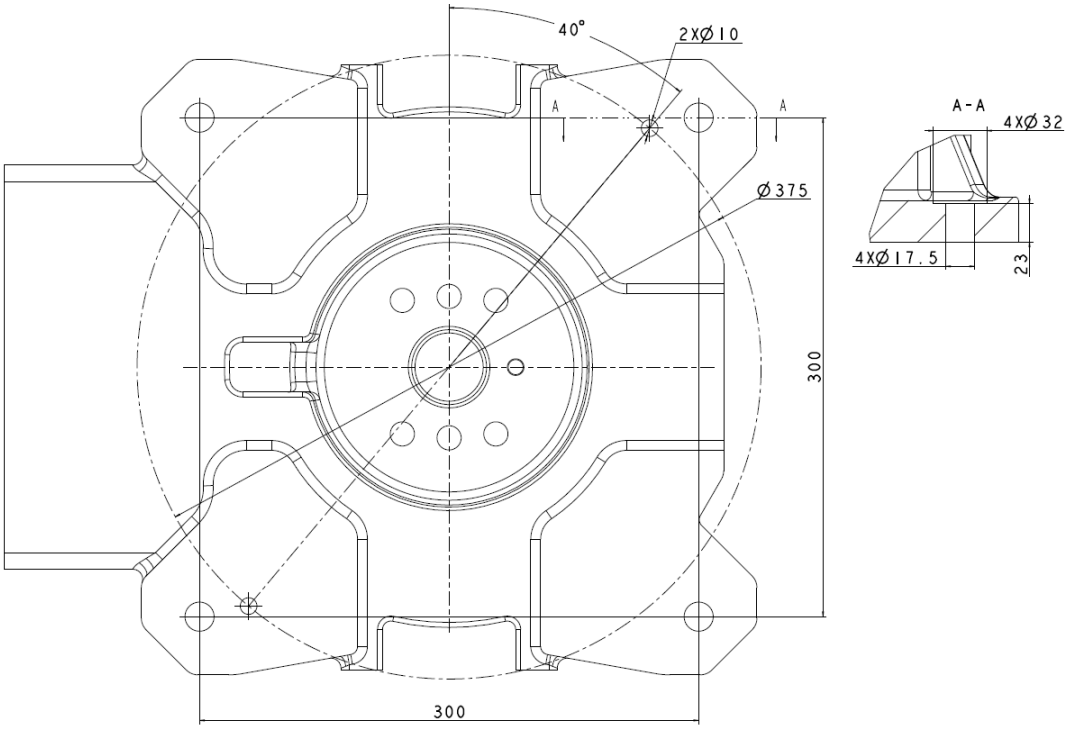
II. QJR6-1 Diagram of the robot's overall size and maximum motion range



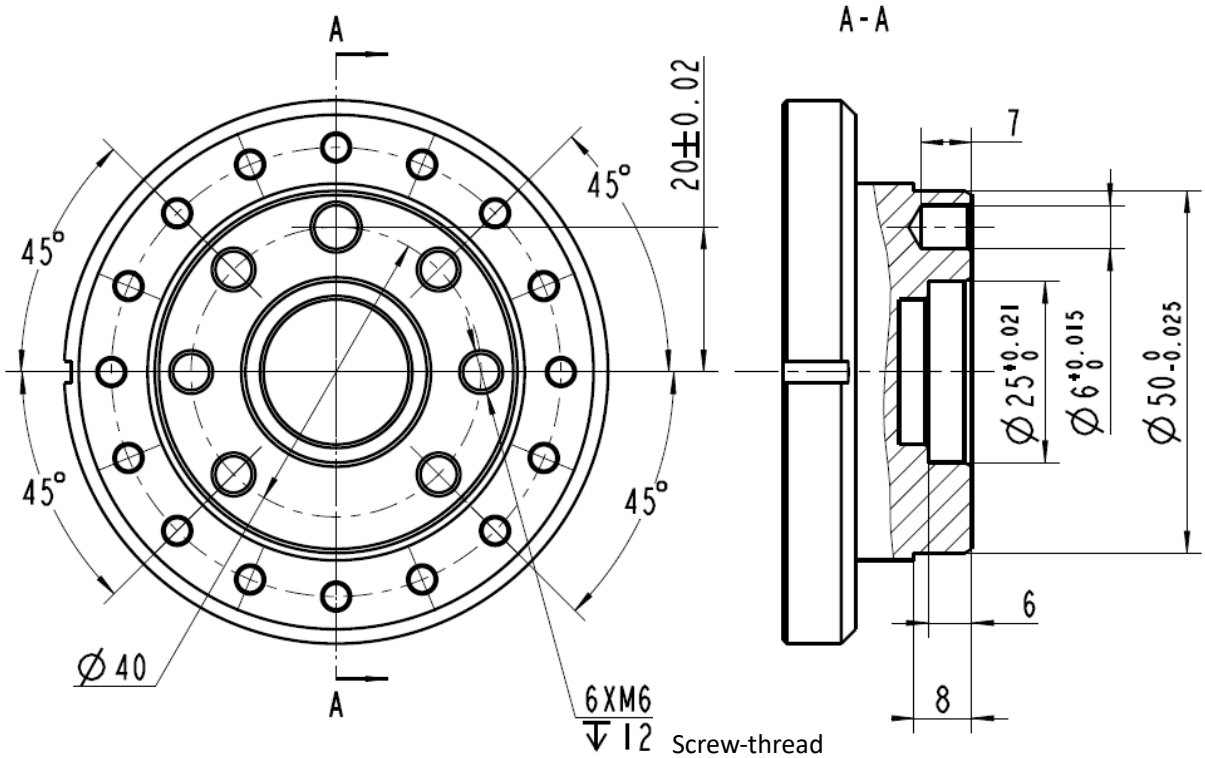




III. QJR6-1 Robot base mounting dimension drawing

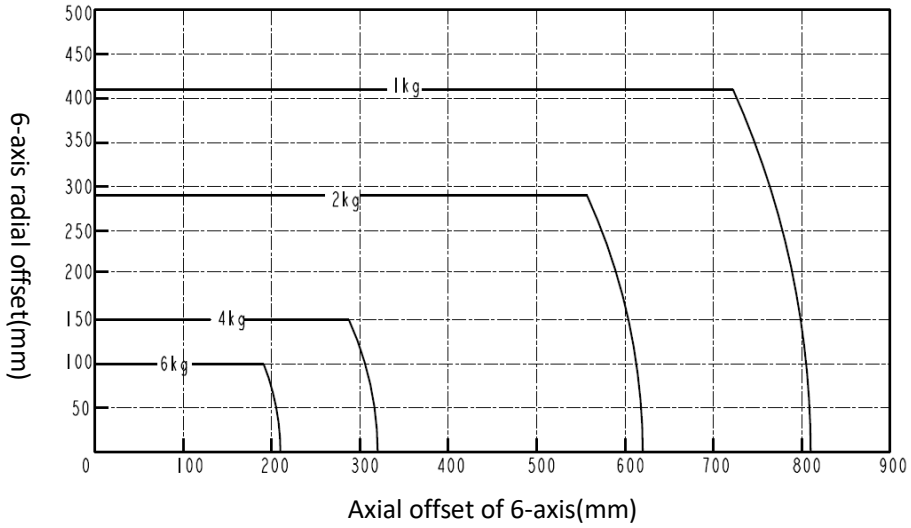


IV. QJR6-1 Installation dimension drawing of robot end



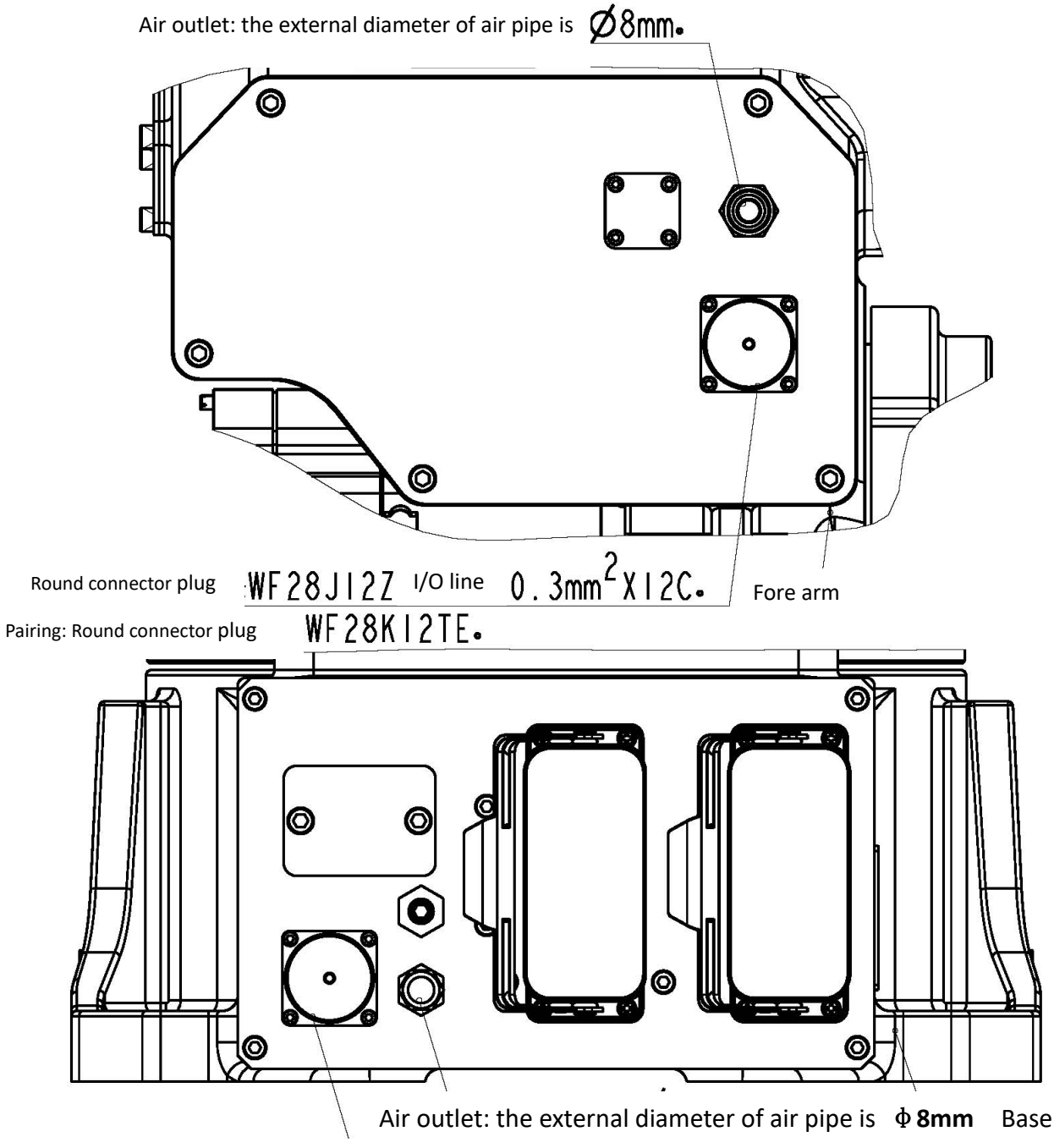
V. QJR6-1 Robot Load Chart

The center of 5 axis is zero point



VI. Schematic diagram of robot reserved gas path and I / O interface position

1. Non-welded condition :



Round connector plug **WF28JI2Z-3，I/O line：0.3mm² ×12C**
Pairing: Round connector plug **WF28KI2TE-3**，
10A cold pressing female **YK1.5-20.4-1.OAU**
（1.OAU is optional according to the need）
explain:
The base and the fore arm position circular connector plug are connected in the same position

VI. QJR6-1 Configuration table of robot products

QJR6-1Configuration table of robot products	
Motor	GAOHUA
RV Reducer	Domestic reducer
Harmonic reducer	Shimpo
Controller	QJAR
Drive	Tsino dynatron

VII. QJR6-1 Controller cabinet

QJR6-1 controller cabinet	
Control hardware	QJAR controller
Control cabinet software	QJAR system
Power Supply	Three phase four wire AC380V (+ 10%, -10%)
Rated power	4.5KW
Power capacity	2.7KVA
Size of control cabinet	580x600x960mm
Weight of control cabinet	130kg
ambient temperature	0-45℃
Maximum humidity	20%~80% RH (no condensation)
Protection level	IP21
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 7 input 13 output, analog 2 output