

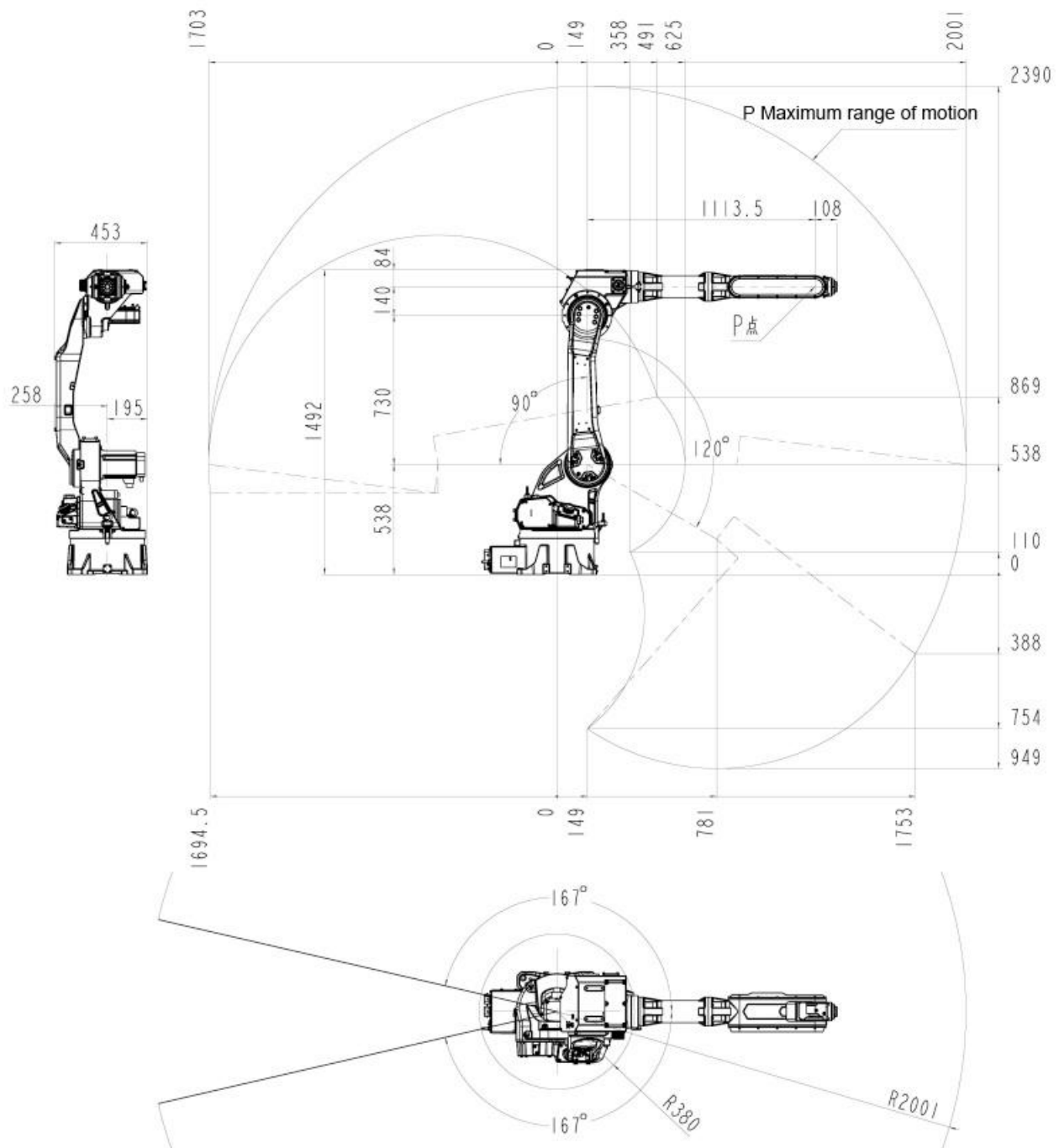
一、Basic specification table of QJR6-3 robot

QJR6-3 basic specification table			
Mechanism		vertical multi-joint	
Axis Number		6	
Payload		6kg	
Max Armspan		2001mm	
Repeat Positioning		$\pm 0.05\text{mm}$	
Motion range	1 axis	$\pm 172^\circ$	
	2 axis	$+166^\circ, -100^\circ$	
	3 axis	$+83^\circ, -92^\circ$	
	4 axis	$\pm 170^\circ$	
	5 axis	$\pm 125^\circ$	
	6 axis	$\pm 360^\circ$	
Max Speed	1 axis	3 rad/s	171°/s
	2 axis	3 rad/s	171°/s
	3 axis	3.3 rad/s	189°/s
	4 axis	7.5 rad/s	429°/s
	5 axis	7.8 rad/s	446°/s
	6 axis	10 rad/s	572°/s
Allowable Torque	4 axis	28 Nm	
	5 axis	28 Nm	
	6 axis	26.4 Nm	
Inertia Moment	4 axis	1.1 kg.m^2	
	5 axis	1 kg.m^2	
	6 axis	0.7 kg.m^2	
body weight		225kg	
Installation Environment	tempe rature	0~45°C	
	humid ity	20%~80% RH (no condensation)	
	vibrati on	$<4.9\text{m/s}^2$ (0.5G)	
	other	Avoid flammable and corrosive gases and liquids;	



		avoid contact with water, oil, dust, etc.; keep away from electrical noise sources.
battery capacity	3.2kVA	
installation method	Ground installation, suspension installation	

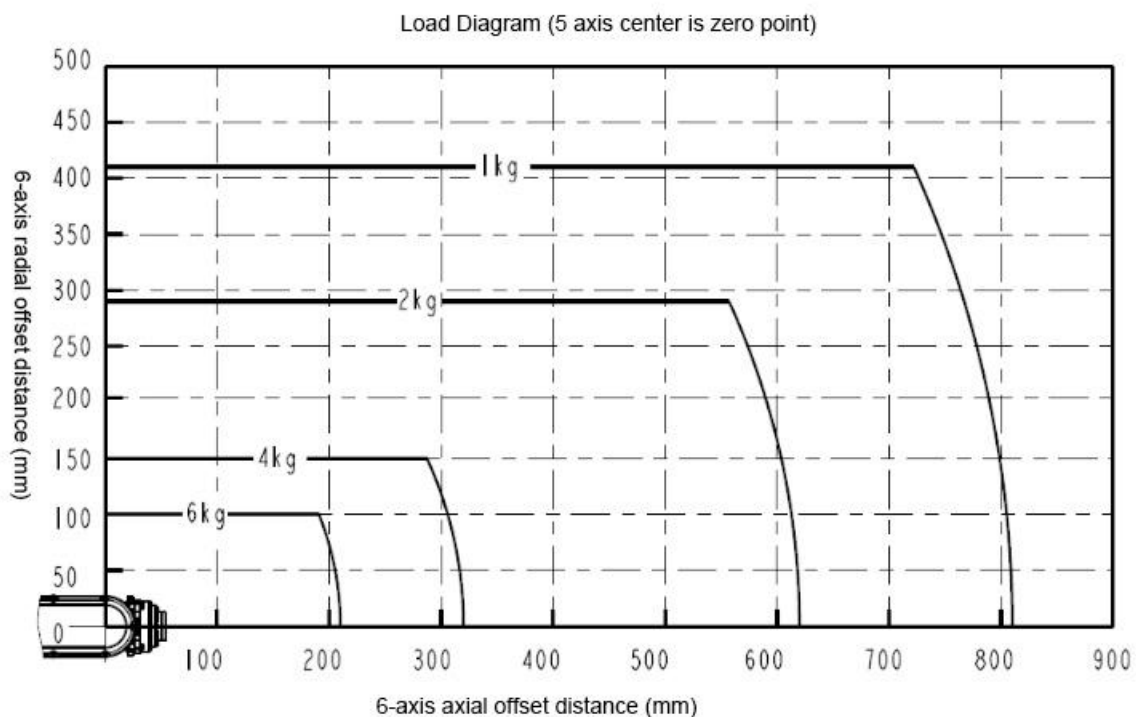
2. QJR6-3 Robot Outline Dimensions and Maximum Motion Range Diagram (Unit: mm)



3. Load diagram of QJR6-3 robot

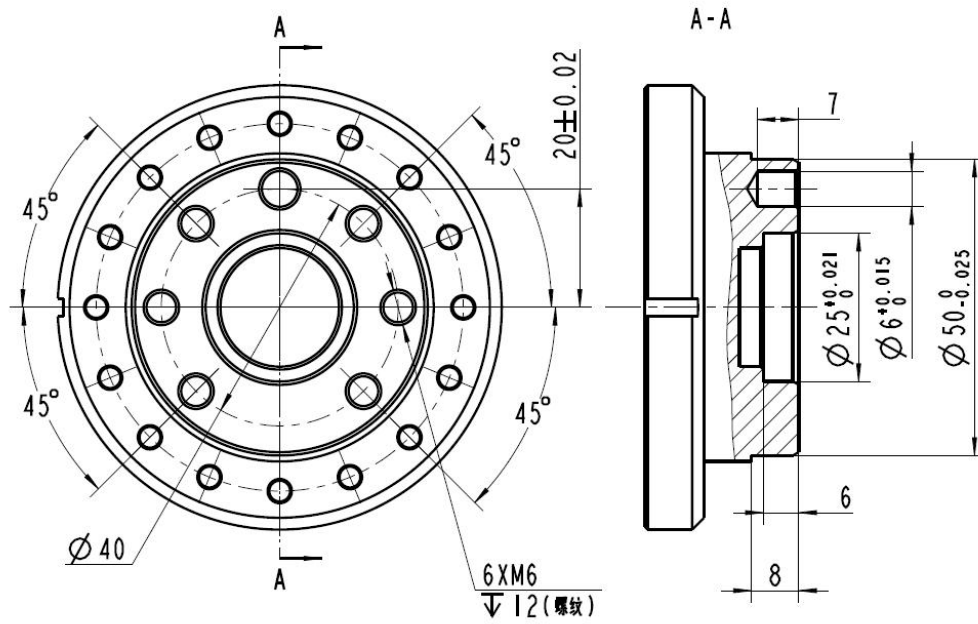
1. The load limit is 6kg:

QJR6-3 acceleration configuration table			
maximum acceleration	1 axis	12 rad/s ²	687 ° /s ²
	2 axis	10 rad/s ²	572 ° /s ²
	3 axis	22 rad/s ²	1260 ° /s ²
	4 axis	50 rad/s ²	2864 ° /s ²
	5 axis	50 rad/s ²	2864 ° /s ²
	6 axis	70 rad/s ²	4010 ° /s ²
load limit		6kg	

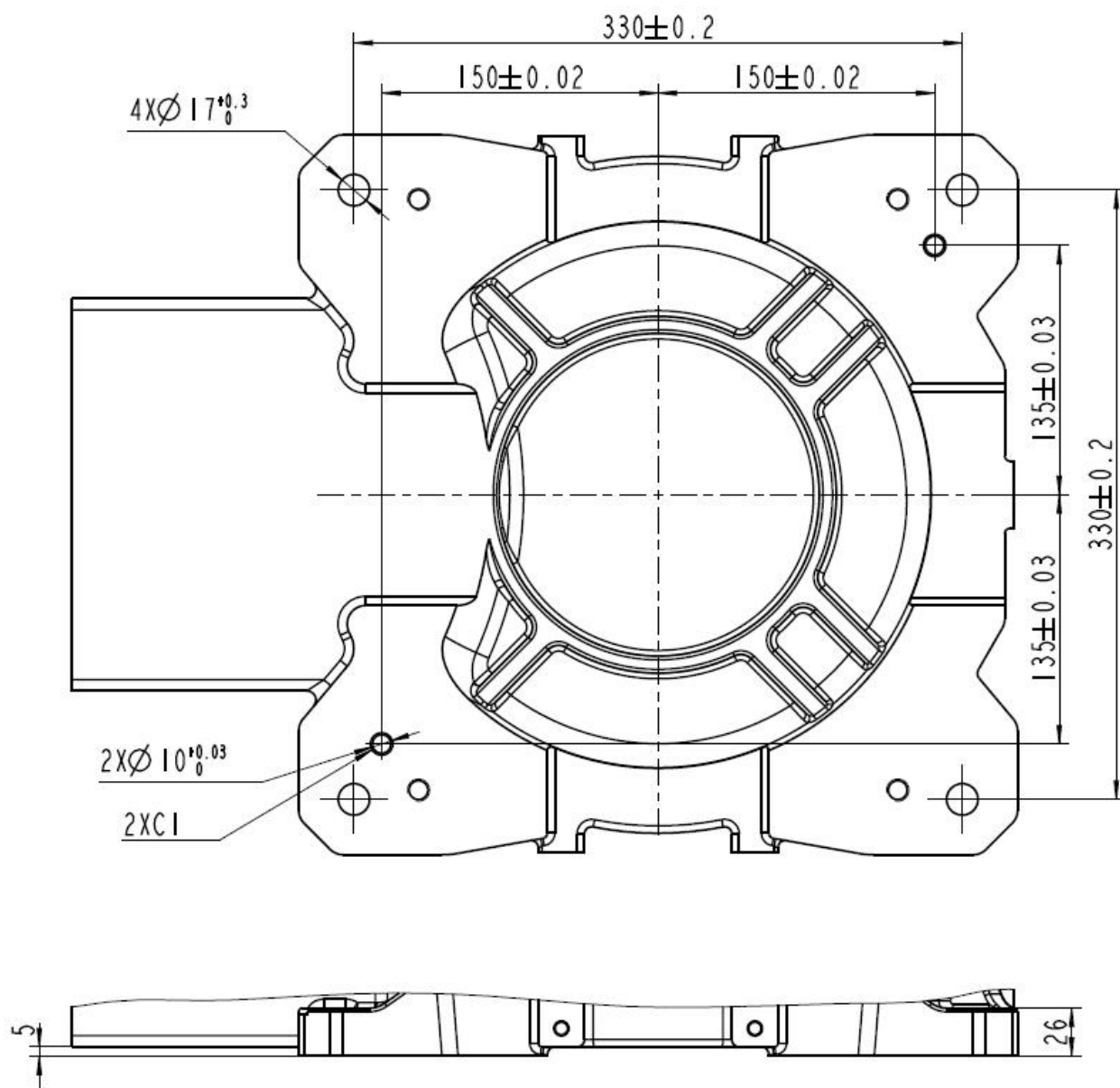


Remarks: The radial eccentricity of the end should be confirmed by the concept of the load mass distribution position. For example, when a 2m long rod has a length of 1m on one side, its mass distribution position is approximately at the 0.5m eccentric position, not 0.

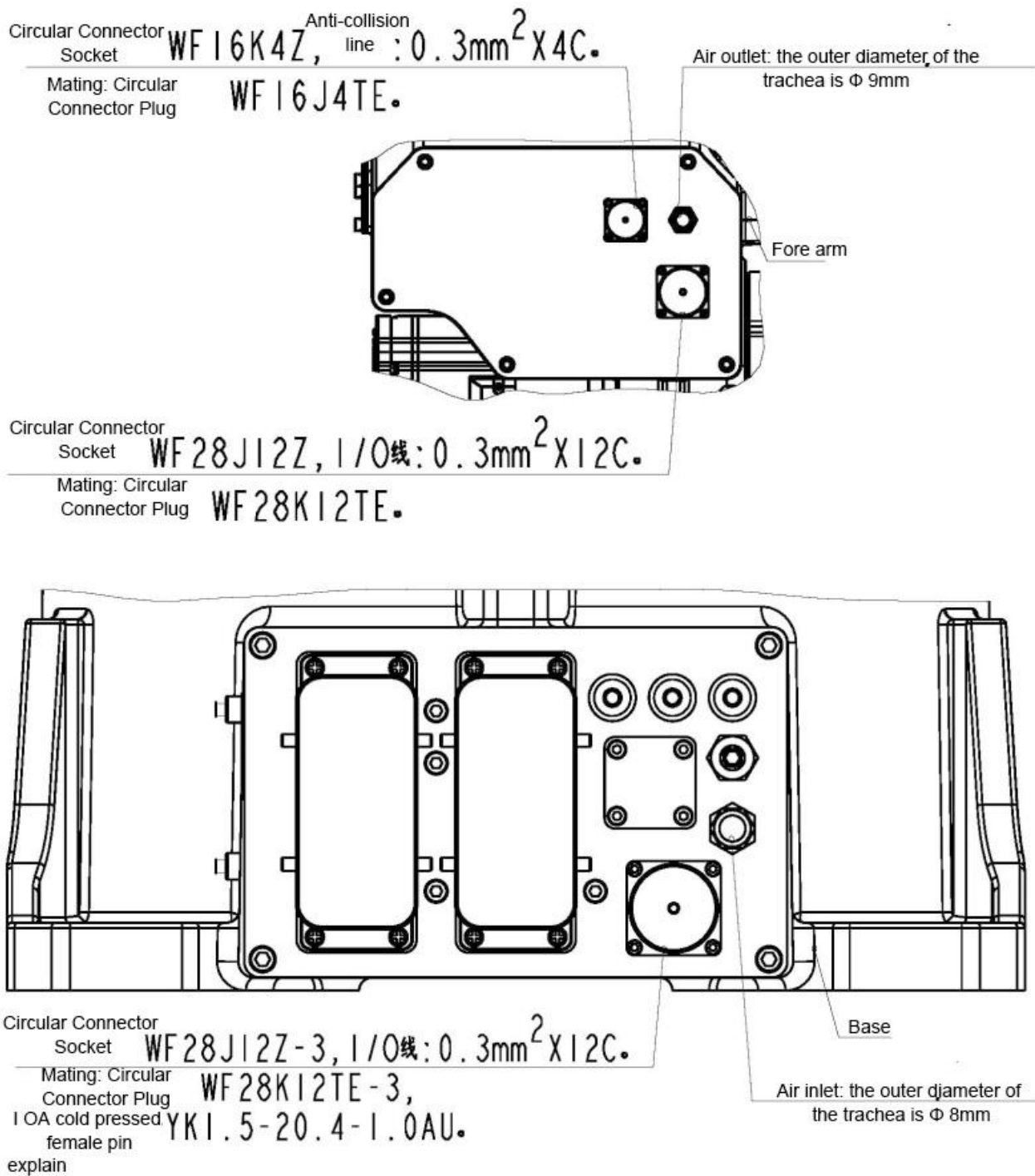
4. QJR6-3 robot end installation dimension drawing (unit: mm)



5. QJR6-3 robot base installation dimension drawing (unit: mm)



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



1. The same position of the circular connector socket at the base and the forearm is connected

7. QJR6-3 finished robot configuration table

QJR6-3 robot finished product configuration table	
motor	Tamagawa, Confucianism, Gaohua Technology, Qingchuan
RV reducer	Nabo, domestic
Harmonic reducer	new treasure
controller	Qianjiang
driver	Qingneng Dechuang, Confucianism

8. QJR6-3 control cabinet configuration information

QJR6-3 control cabinet	
control hardware	Qianjiang controller (R5 version IO board)
Control cabinet software	Qianjiang Operating System
driver	Qingneng Dechuang drive
power supply	One-phase AC220V (+10%,-10%)
rated power	5.25kW
battery capacity	3.2kVA
Control cabinet size	600×480×920mm
Control cabinet weight	95kg
ambient temperature	0-45℃
Humidity	20%~80% RH (no condensation)
degree of protection	IP 30
operation panel	On the control cabinet

programmin g unit	Color touch screen teaching box
safety	emergency stop, automatic mode stop, remote mode stop
input Output	Digital IO 7 input 13 output, analog 2 output