

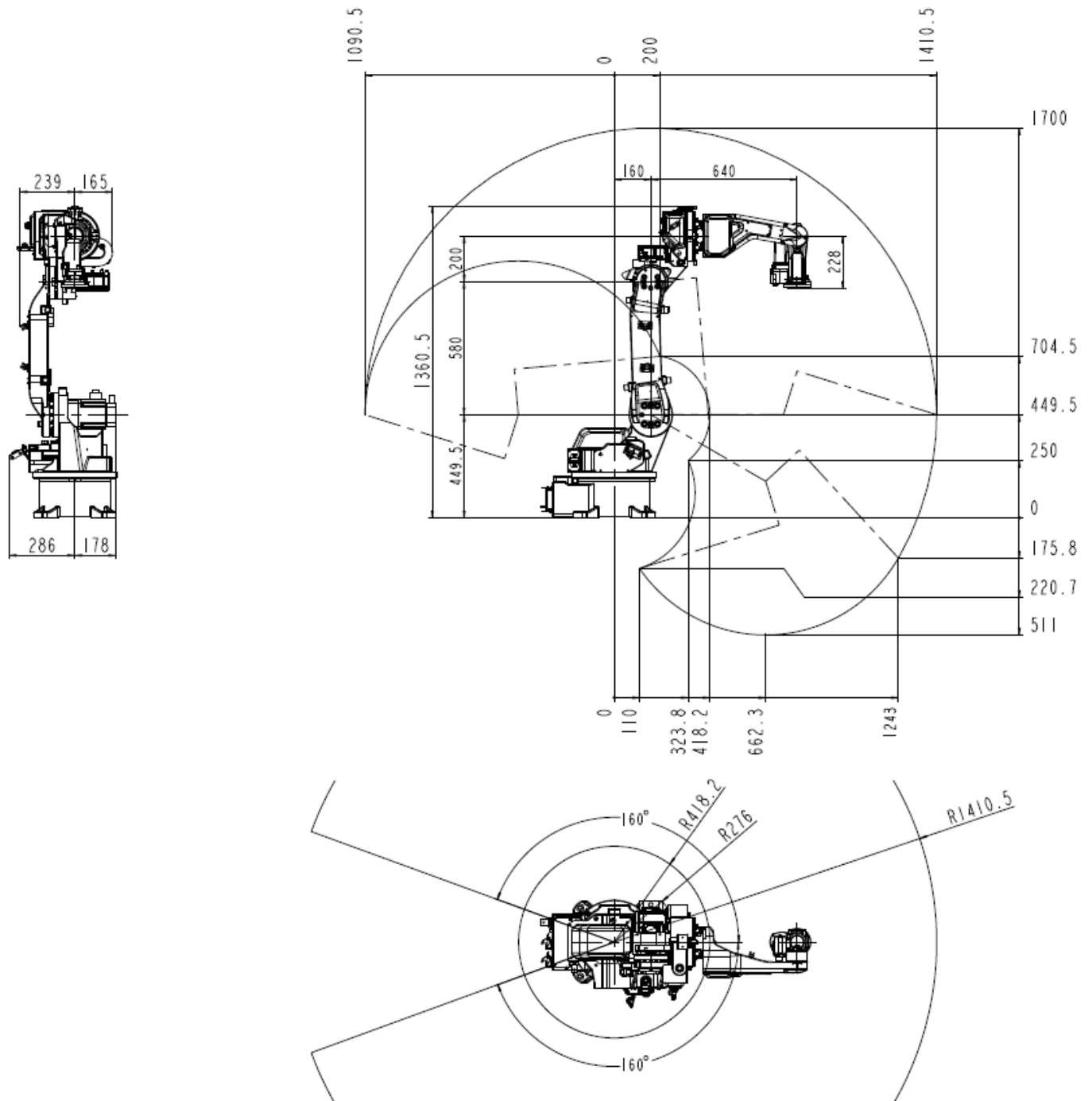
Specifications and Drawings of QJRH4-1A

I. QJRH4-1A Robot basic specification table

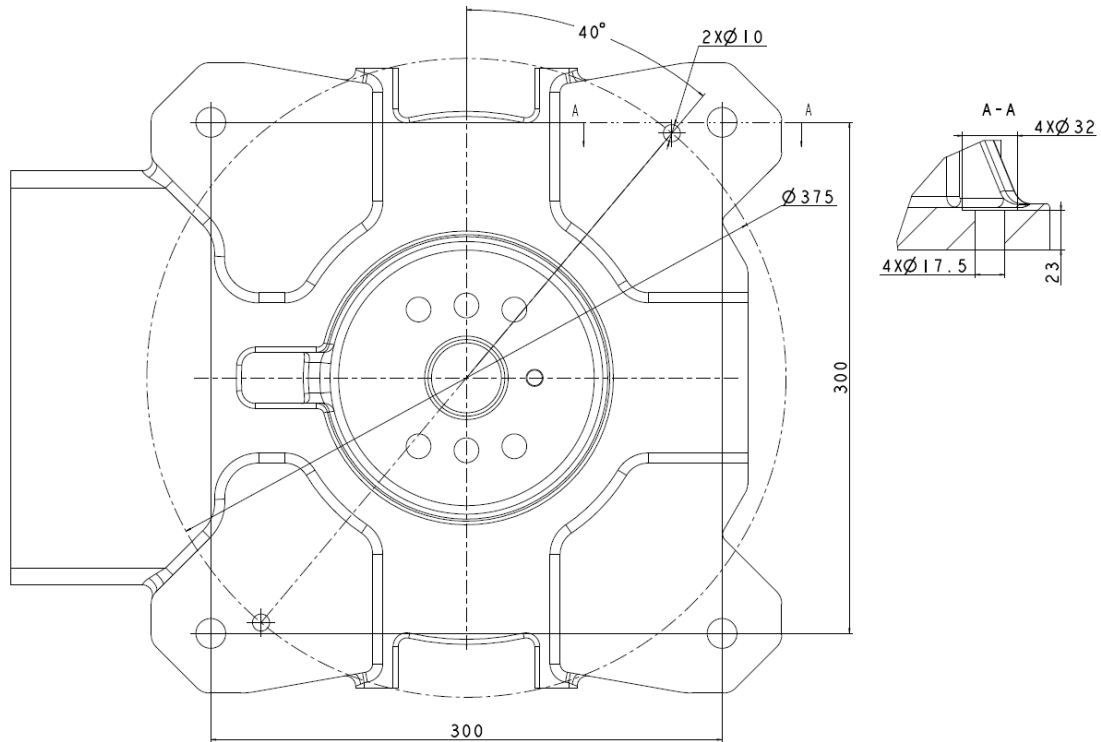
QJRH4-1A Basic specification sheet			
Body shape		Vertical multiarticular	
Degrees of freedom		6	
The payload		4kg	
Arm span		1410.5mm	
Repeated positioning accuracy $\wedge 2$		$\pm 0.03\text{mm}$	
Mechanical limit range	1axis	$\pm 168^\circ$	
	2axis	$+150^\circ, -89^\circ$	
	3axis	$+85^\circ, -111^\circ$	
	4axis	$\pm 167^\circ$	
	5axis	$+58^\circ, -217^\circ$	
	6axis	$\pm 360^\circ$	
Maximum speed	1axis	3.5 rad/s	200.5°/s
	2axis	3.5 rad/s	200.5°/s
	3axis	4.1 rad/s	234.9°/s
	4axis	6.1 rad/s	349.5°/s
	5axis	6.2 rad/s	355.2°/s
	6axis	8.4 rad/s	481.2°/s
Maximum acceleration	1axis	15 rad/s ²	859.4°/s ²
	2axis	12.5 rad/s ²	716.1°/s ²
	3axis	20 rad/s ²	1145.9°/s ²
	4axis	50 rad/s ²	2864.7°/s ²
	5axis	45 rad/s ²	2578.3°/s ²
	6axis	60 rad/s ²	3437.7°/s ²
Allow the torque	4axis	10.51 N.m	
	5axis	10.51 N.m	
	6axis	2.94 N.m	
Inertia moment	4axis	0.38 kg.m ²	
	5axis	0.38 kg.m ²	
	6axis	0.03 kg.m ²	
Body weight		150 kg	
Installation environment	tempe rature	0~45 °C	
	humid ity	20%~80% RH(No condensation)	
	vibrati	<4.9m/s ² (0.5G)	

	on	
	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

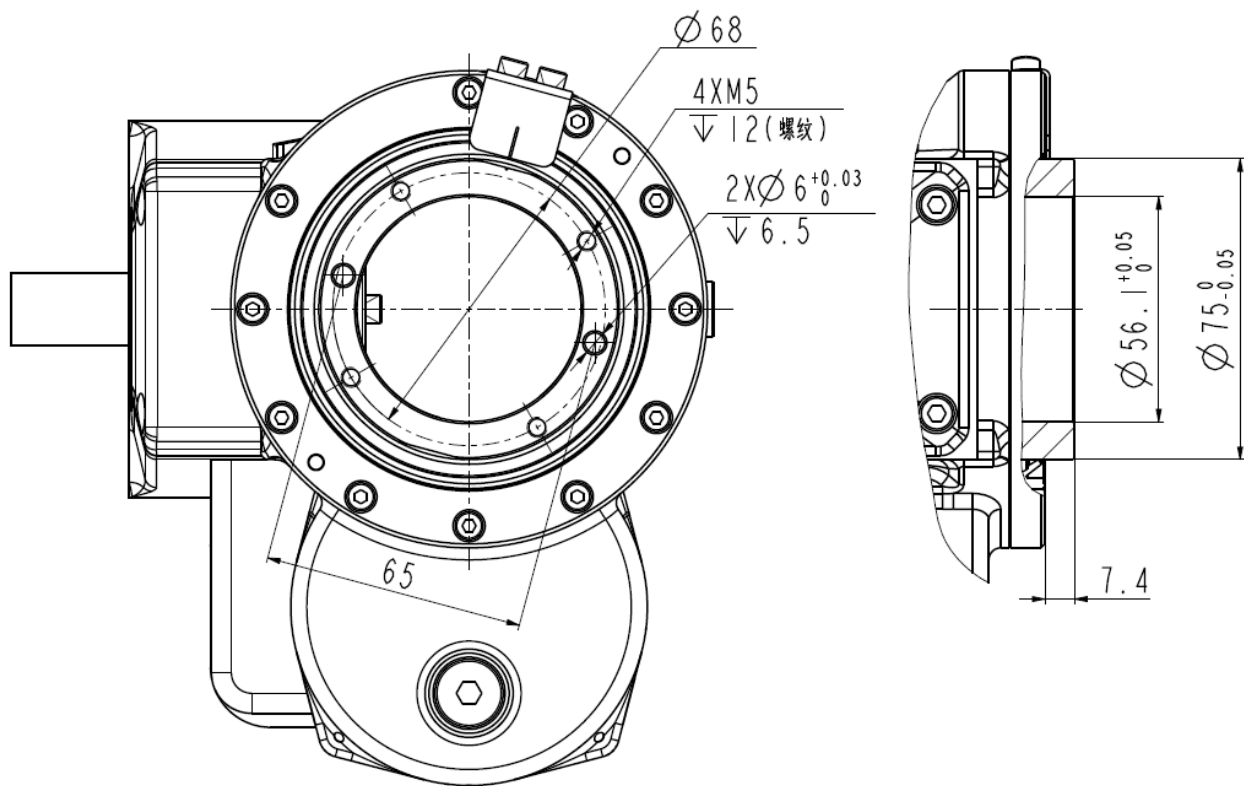
II. QJRH4-1A Diagram of the robot's overall size and maximum motion range



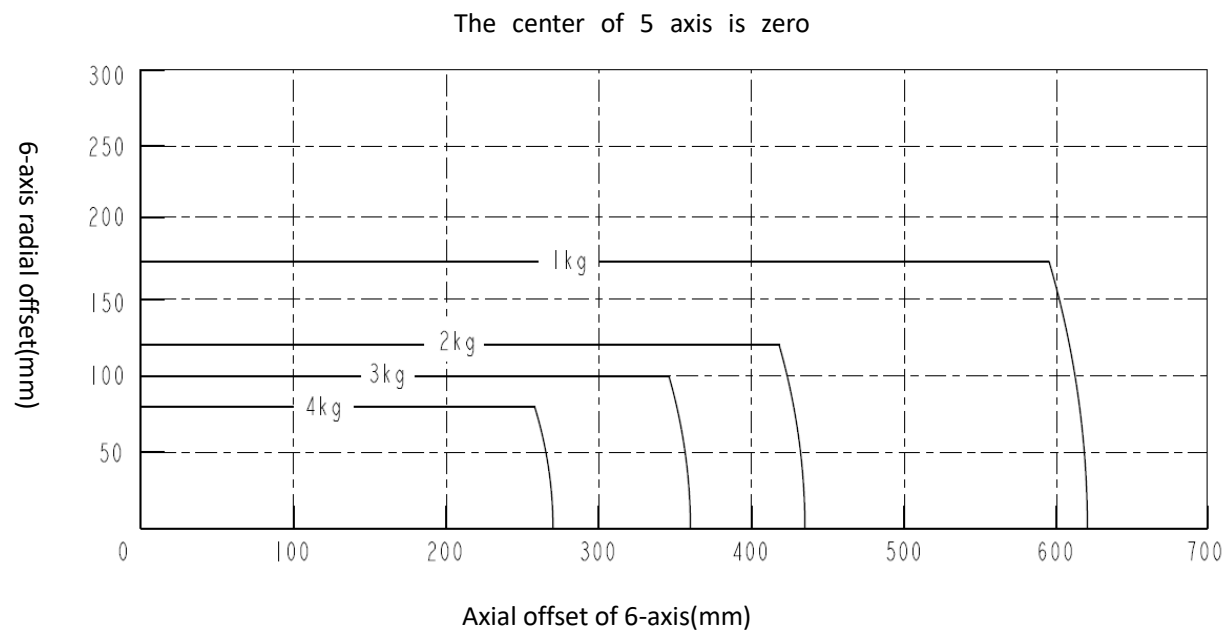
III. QJRH4-1A Robot base mounting dimension drawing



IV. QJRH4-1A Installation dimension drawing of robot end



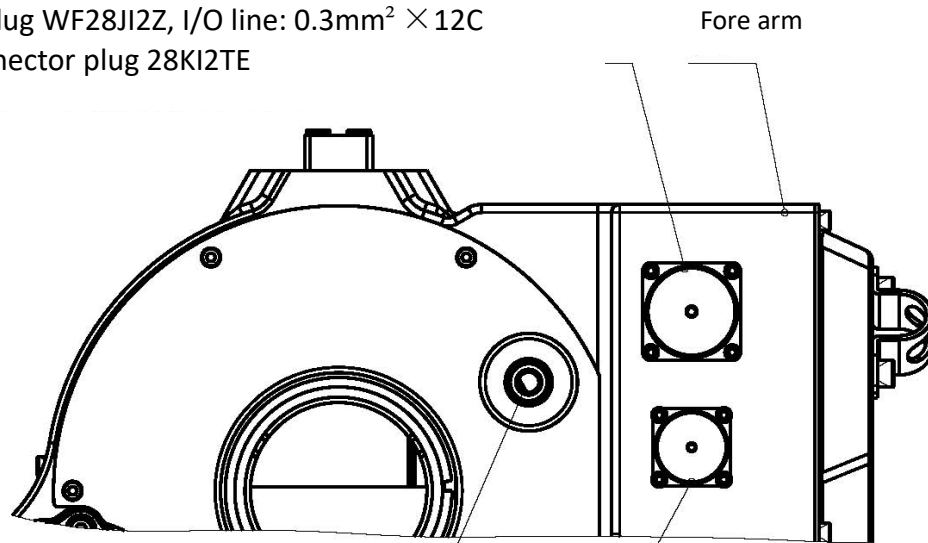
V. QJRH4-1A load capacity diagram



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

Round connector plug WF28JI2Z, I/O line: $0.3\text{mm}^2 \times 12\text{C}$

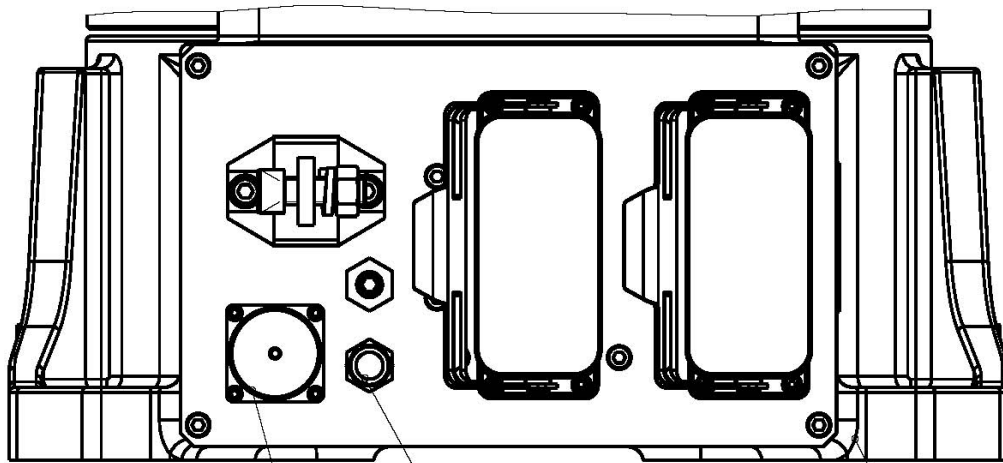
Pairing: Round connector plug 28KI2TE



Air outlet: the external diameter is $\phi 8\text{mm}$

Round connector plug WF16K4Z, anti-collision line:
 $0.3\text{mm}^2 \times 4\text{C}$

Pairing: Round connector plug WF16J4TE



Air inlet: the external diameter is $\phi 8\text{mm}$

Round connector plug **WF28JI2Z-3**, I/O line: $0.3\text{mm}^2 \times 12\text{C}$

Pairing: Round connector plug **WF28KI2TE-3**,

10A cold pressing female **YK1.5-20.4-1.0AU**

(1.0AU is optional according to the need)

explain:

The base and the fore arm position circular connector plug are connected in the same position

VII. QJRH4-1A Configuration table of robot products

QJRH4-1A Configuration table of robot products	
Motor	TAMAGAWA/Gaohua
RV Reducer	Nabtesco/Domestic ones
Harmonic reducer	Shimpo
Controller	QJAR
Drive	Tsino dynatron

VIII. QJRH4-1A Controller cabinet

QJRH4-1A controller cabinet	
Control hardware	QJAR controller(R5 version IO board)
Control cabinet software	QJAR operating 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°C
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 7 input 13 output , analog 2output