QJAR

QJRB3-1A



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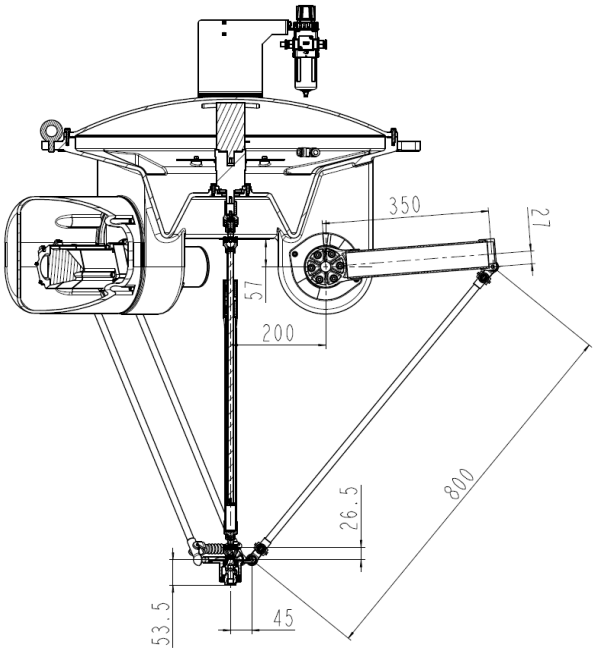
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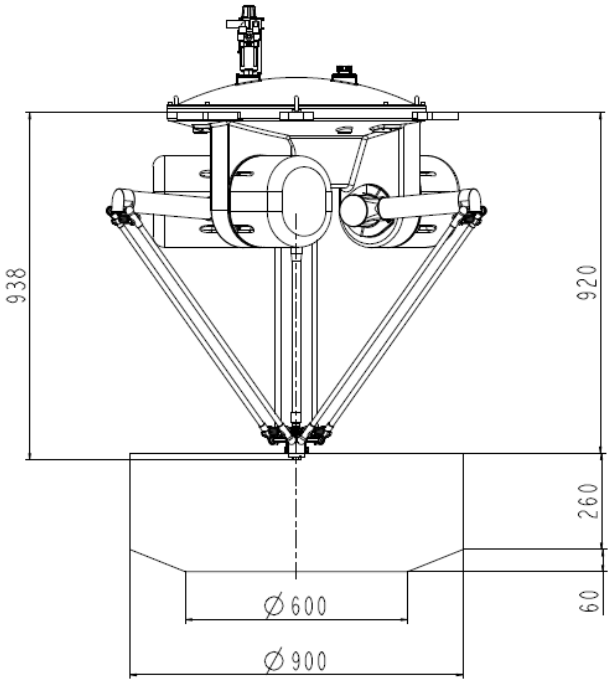
Specifications and Drawings of QJRB3-1A

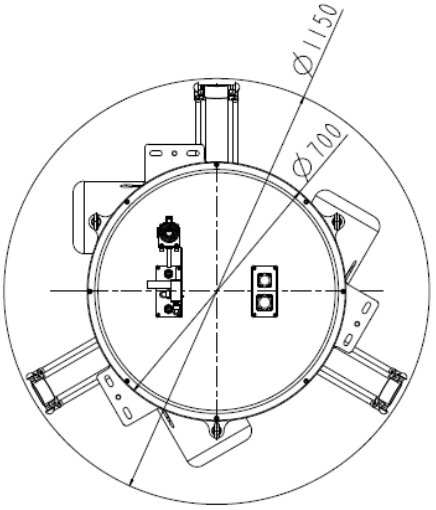
QJRB3-1A Robot basic specification table

QJRB3-1A(delta)			
Body shape		parallel manipulator	
Degrees of freedom		4	
The payload		1kg/3kg	
Repeated positioning accuracy		±0.08mm	
Mechanical limit range	1、2、3axis	+36°, -94°	
	4axis	±360°	
Maximum angular velocity	1、2、3axis	18 rad/s	1031.8 °/s
	4axis	50 rad/s	2866.2 °/s
Arm span		900*320mm	
The scope of work		φ900 mm	
Corresponding to the active arm length		351 mm	
Corresponding link length		800 mm	
Maximum linear velocity		8 m/s	
Installation		Top lift installation	
Drive way		Servomotor drive	
Body weight		120 kg	
Protection grade		IP65	
Installation environment	temperature	0~45 ℃	
	humidity	Usually less than 75%RH, short term less than 95%RH (less than 1 month)	
	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		2.0kVA	

QJRB3-1A Diagram of the robot's overall size and maximum motion range

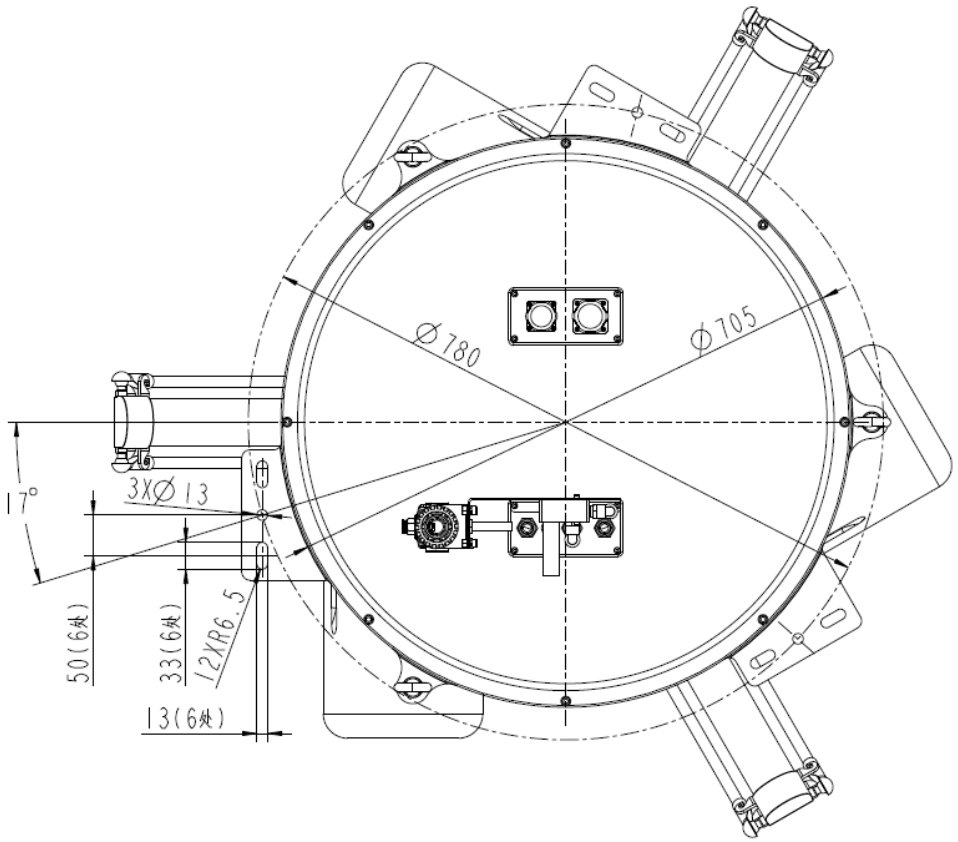




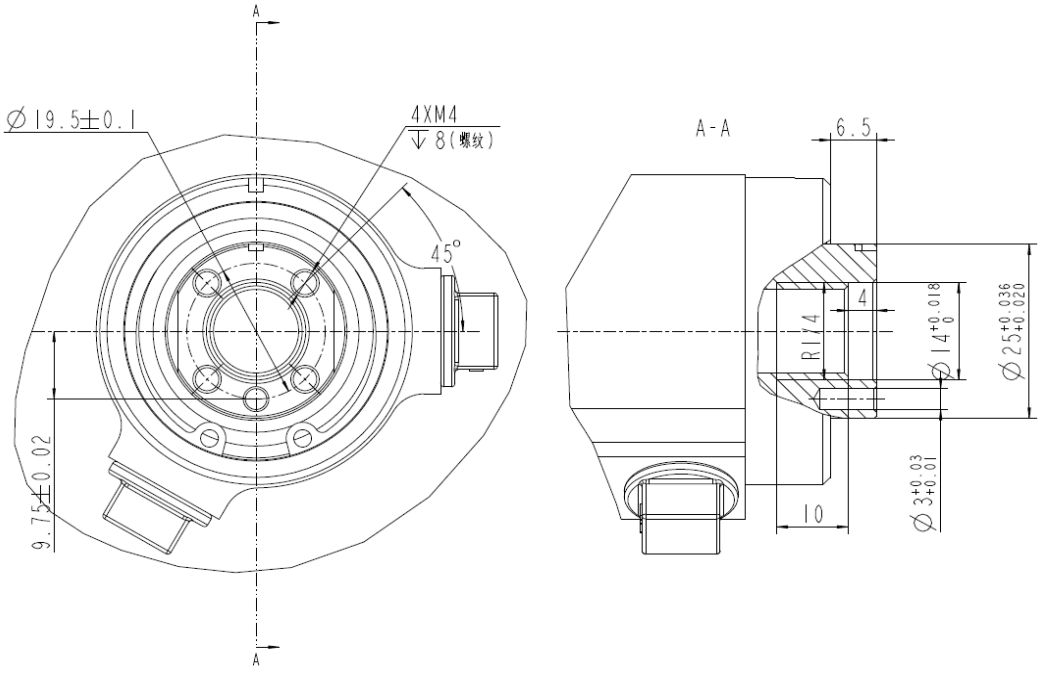


Active arm length: 351mm
Connecting rod length: 800mm

QJRB3-1A Robot base mounting dimension drawing

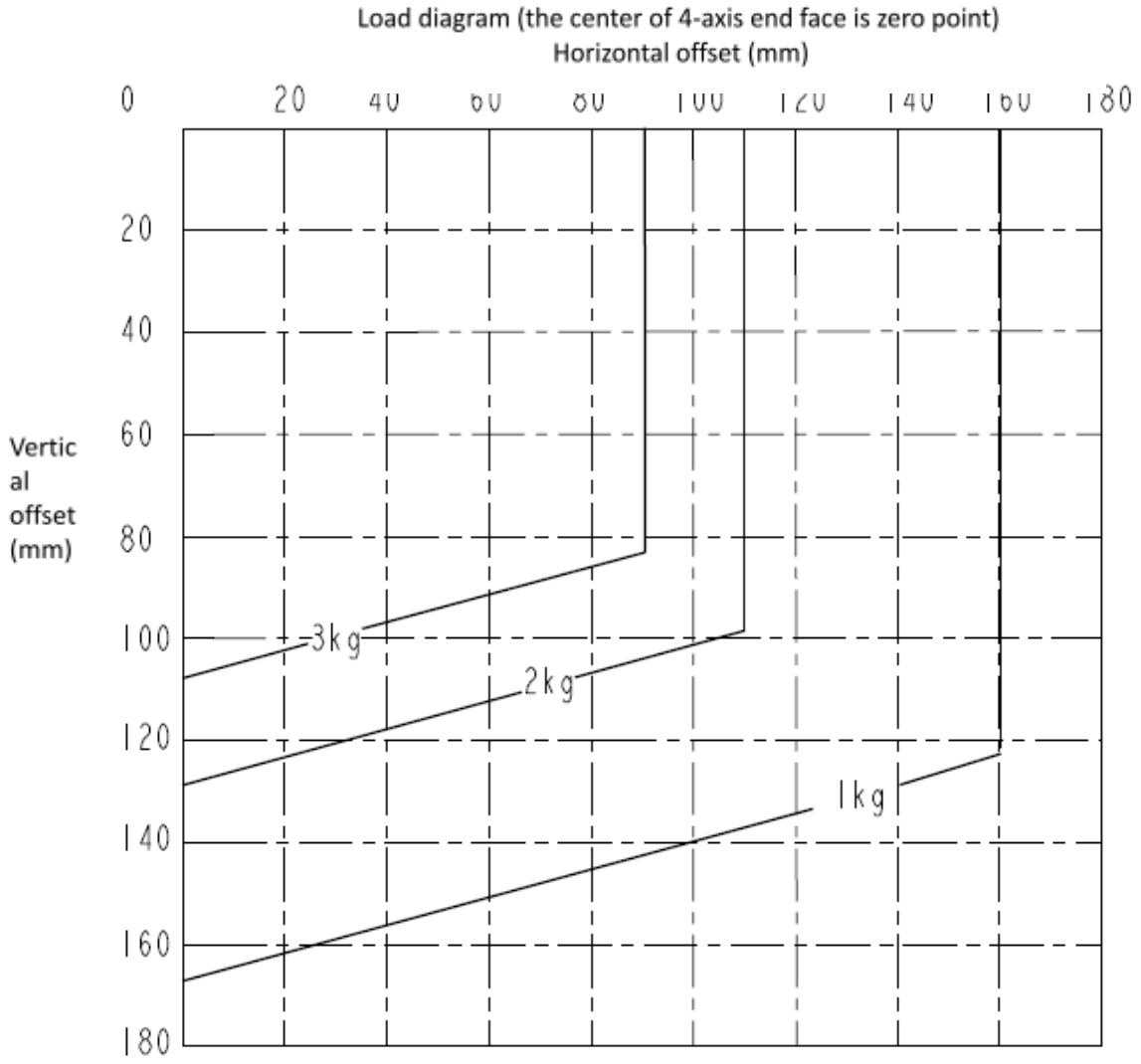


QJRB3-1A Installation dimension drawing of robot end



QJRB3-1A Robot Load Chart

Load diagram (the center of 4-axis end face is zero point)



QJRB3-1A Configuration table of robot products

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Motor	Panasonic
Planetary reducer	Shimpo
Controller	KEBA/Googo
Drive	Tsino dynatron
Drive control integration	Googo

QJRB3-1A Configuration information of control cabinet

QJRB3-1A control cabinet:state 1	
Control hardware	KEBA controller
Control cabinet software	KEBA system
Power Supply	Three phase four wire AC380V (+ 10%, - 10%)
Rated power	4.2KW
Power capacity	2.7KVA
Size of control cabinet	580x600x960mm
Weight of control cabinet	100kg
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，26input，32output

QJRB3-1Acontrol cabinet:state 2	
Control hardware	Googo Drive control integration
Control cabinet software	Googo system
Power Supply	Single-face AC220V(+10%,-10%)
Rated power	3KW
Power capacity	2.0KVA
Size of control cabinet	230x339x410 mm
Weight of control cabinet	16kg
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，7input，8output