



SIASUN 新松

SR12A-12/1.46

Technical Specifications

Model			SR12A-12/1.46		
Robot Type			Articulated Robot		
Control Axes			6		
Mounting Configuration			Floor, Side-mounted, Inverted-mounted		
Range of Motion	J1	±180°	Maximum Moving Speed	J1	200°/s
	J2	+ 90°, - 170°		J2	200°/s
	J3	Composite: + 180°, - 200° Single-Axis: +150°, -90°		J3	220°/s
	J4	±180°		J4	400°/s
	J5	+145°, -160°		J5	430°/s
	J6	±360°		J6	720°/s
Payload(wrist)			12kg		
Allowable Inertia (GD ² /4)	J4	0.40kg·m ²	Allowable Moment	J4	23N·m
	J5	0.38kg·m ²		J5	20N·m
	J6	0.10kg·m ²		J6	9N·m
Repeatability			±0.03mm		
Maximum working radius			1465mm		
Body Weight			130kg		
Protection level			IP65 (wrist) IP54 (body)		



Robot Controller

Model		SR12A-12/1.46
Controller Model		SRC M6
Control System		ARM-based Economic Control System
Teach Pendant		STB2A-H
Input Power		1.2kW
Cabinet Dimensions (W×D×H)		710mm×550mm×776.5mm
Power Supply		Three-phase four-wire AC380V 50/60Hz
Bus Communication	Ethernet bus	Standard interfaces TCP/IP, Profinet Slave, Modbus Slave; Optional for Profinet Master, EtherCAT Slave, EtherNet/IP Master, EtherNet/IP Slave
	Industrial bus	Standard interfaces DeviceNet Master; Optional for DeviceNet Slave, CC-Link Slave
I/O Interface		Standard NPN type 16DI/16DO (PNP type optional, expandable up to 64DI/64DO)
Operating Temperature		0°~45°(Cooling required if ambient temperature exceeds 45°C)
Protection Rating		Front chamber: IP54; Rear chamber: IP22



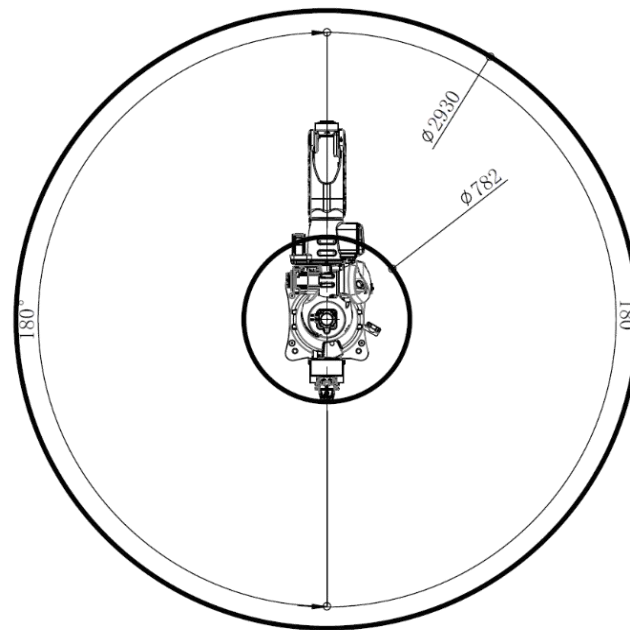
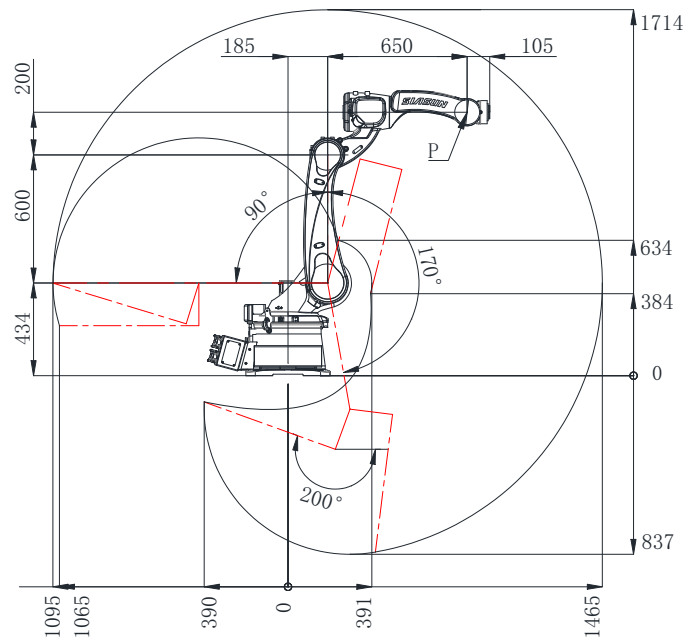
Robot Interconnection Cable

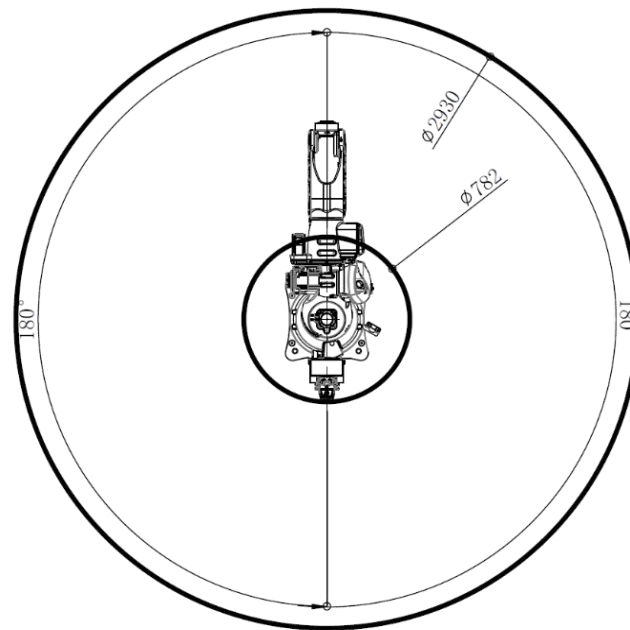
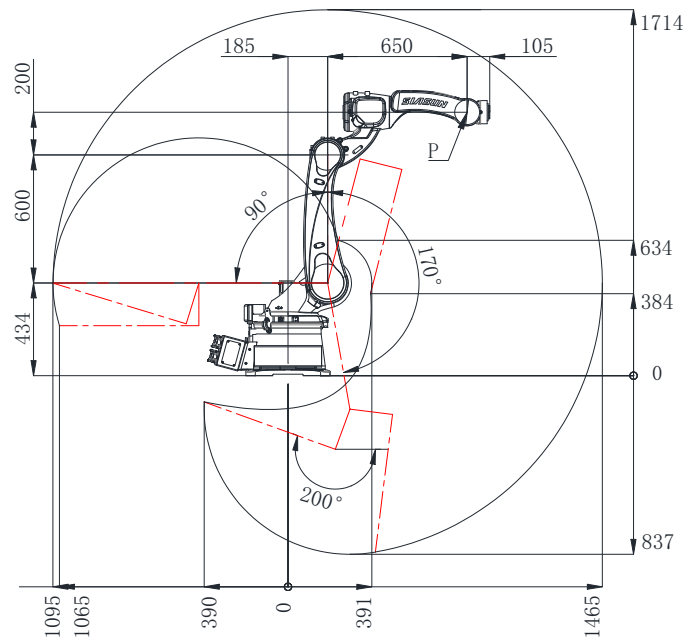


Power Cable , Encoder Cable

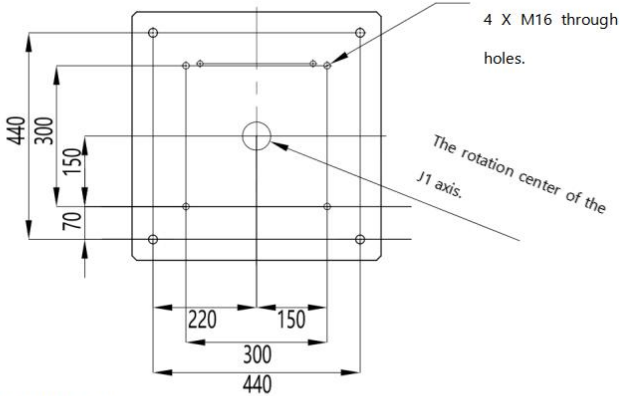
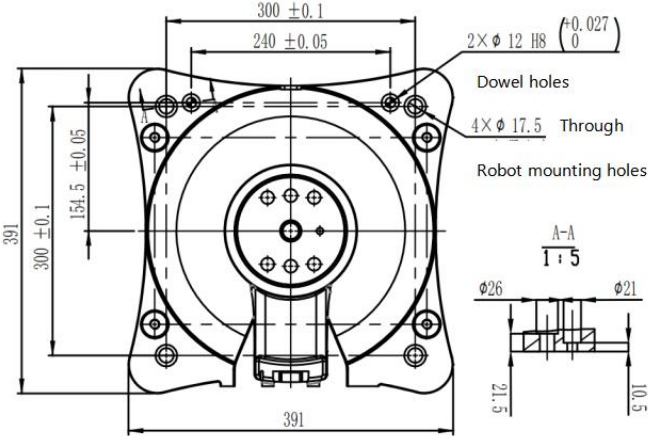
Configuration	Length	Drag Chain Cable/Fixed Installation Cable
Standard	5m	Fixed Installation Cable
Optional	5m	Drag Chain Cable
	7m	Drag Chain Cable/Fixed Installation Cable
	14m	Drag Chain Cable
	20m	Drag Chain Cable
	25m	Drag Chain Cable
	30m	Drag Chain Cable



Motion range of robot

Motion range of robot

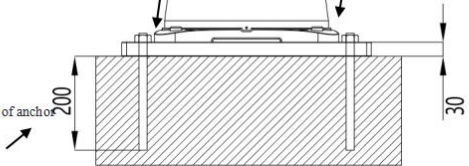
Base Mounting Interface



Install 4 bolts of M16x40 with a strength grade of 12.9 and a tightening torque of 358Nm.

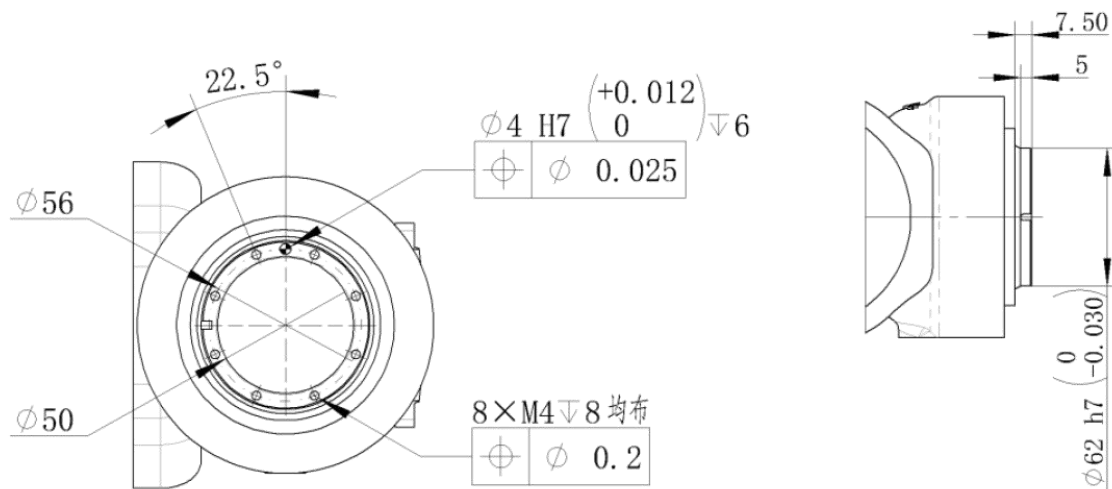
M20 chemical bolts, quantity: 4
Tensile strength: 400N/mm²
Tightening torque: 186Nm

The effective
embedding depth of anchor

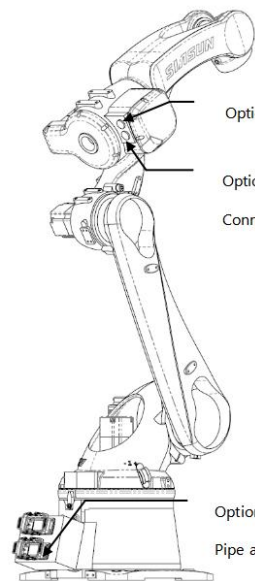


Name and Model	Quantity
Fixation Screw: M16×40 (GB/T70.1 Grade 12.9)	4
Spring Washer: Spring Lock Washer 10 (GB/T93)	4
Positioning Pin: Cylindrical Pin 6×40 (GB/T120.2)	2

End Effector Flange



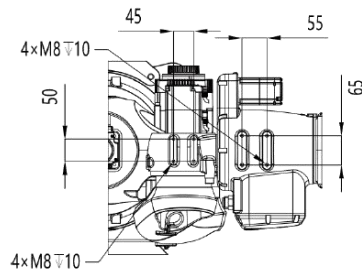
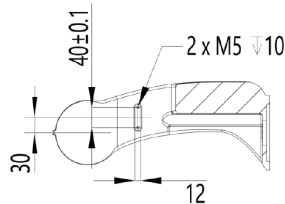
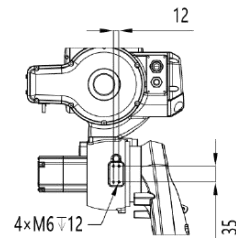
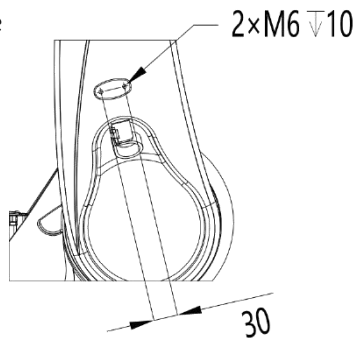
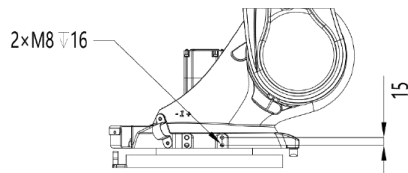
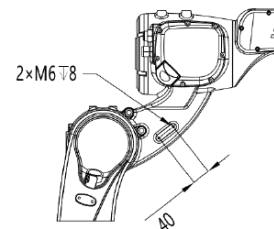
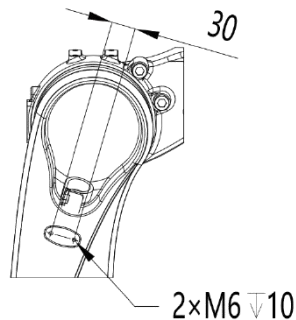
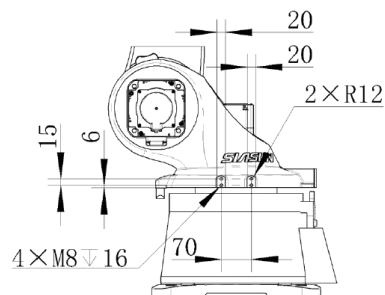
Other Interfaces



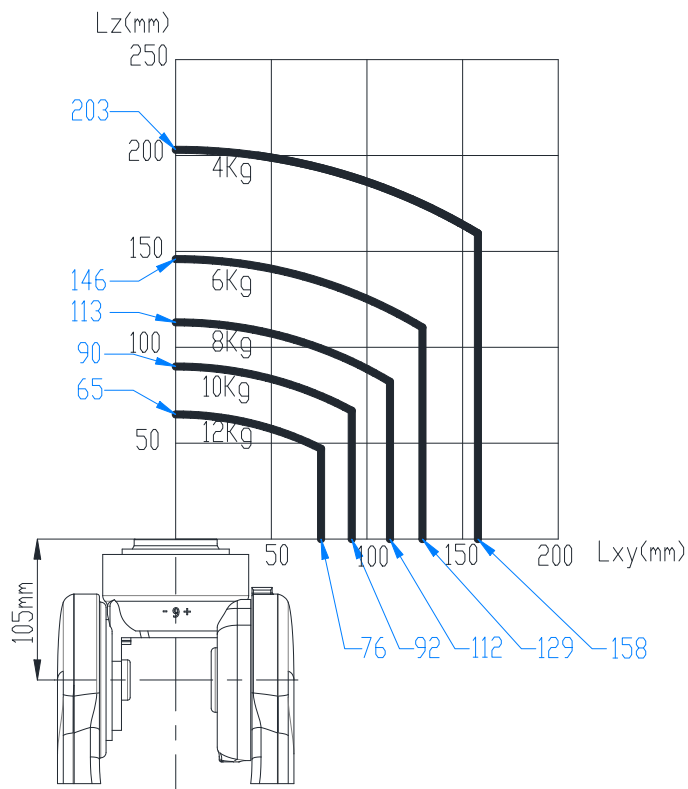
Optional Air Pipe Connector

Optional Waterproof Connector

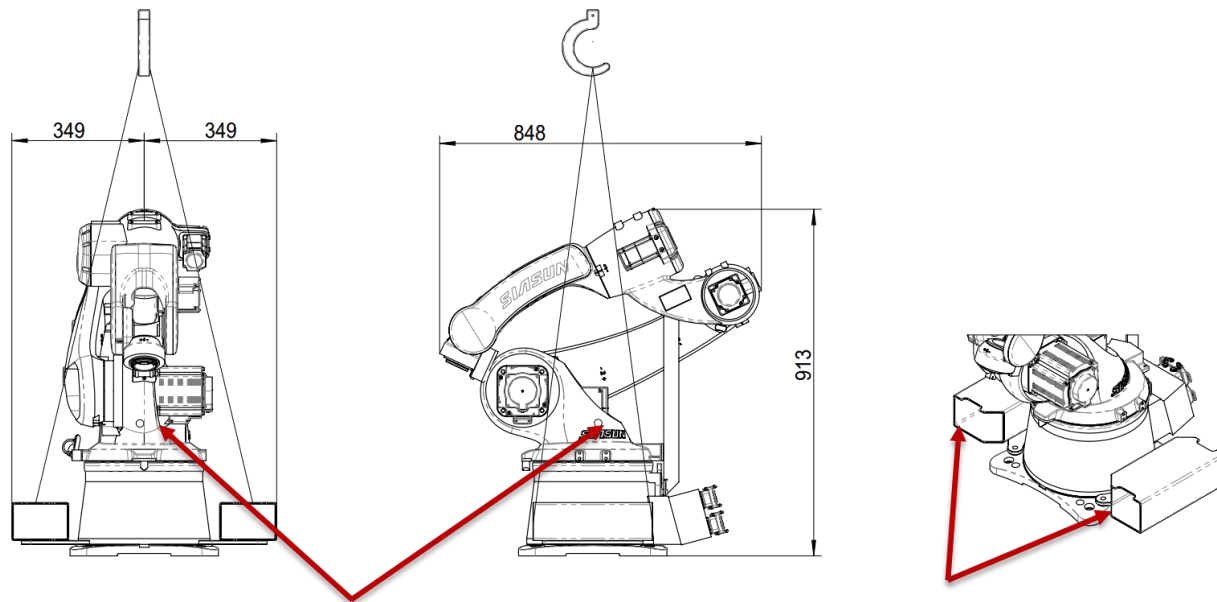
Optional Entry Position for Air Pipe and Signal Cable



Load Curve



Handle with crane



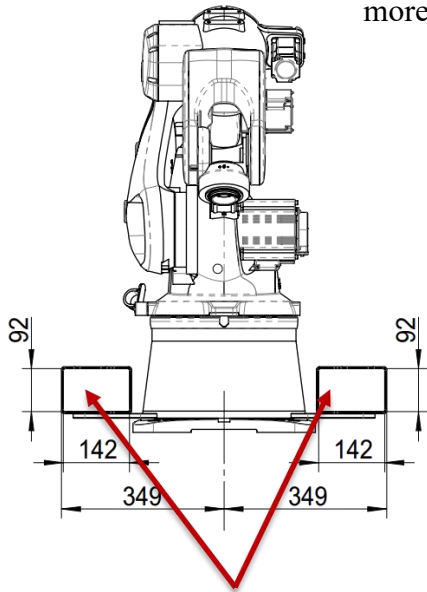
Center of mass of robot

Thread the sling through here

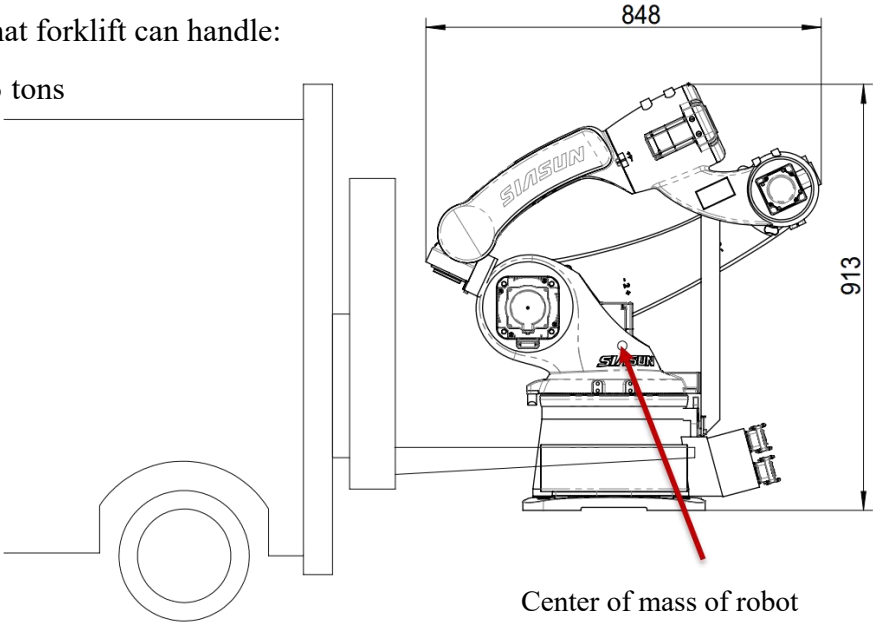
Each axis of robot	1 axis	2 axis	3 axis	4 axis	5 axis	6 axis
Angle value	0°	65°	-90°	0°	-40°	0°

Handle with forklift

The weight that forklift can handle:
more than 0.3 tons



forklift lifting feet



Each axis of robot	1 axis	2 axis	3 axis	4 axis	5 axis	6 axis
Angle value	0°	65°	-90°	0°	-40°	0°

Version	Revision date	Changing
A/0	2025.3	Initial version writing

ROBOTS MAKE A BETTER WORLD

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