

RX3-400

With its 400 mm horizontal reach and 3 kg payload, the RX3-400 SCARA robot is the ideal solution for small-scale assembly, pick and place, inspection and packaging applications requiring agility and high speed.



Highlights

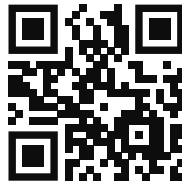
- 400 mm maximum range
- Up to 3 Kg Payload
- 5984 mm/s complex speed

Main features

Number of axes	4
Maximum payload	3 kg
Nominal load	1 kg
Maximum range	400 mm
Protection	IP20
Weight	15 kg
Installation area	180x140 mm
Power supply	230 VAC, 50-60 Hz, 500 W

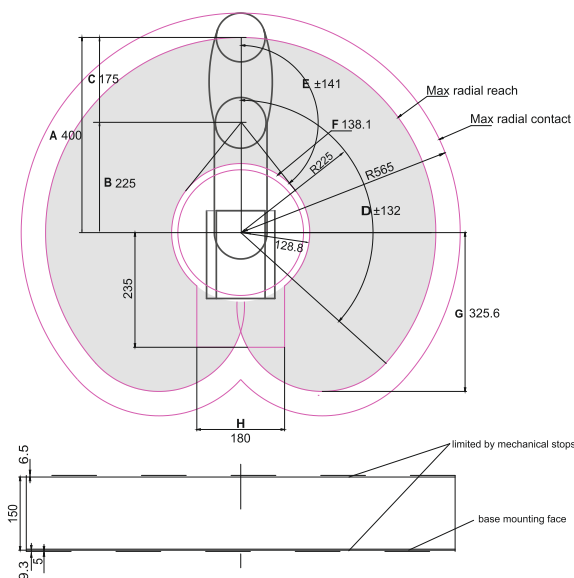
Axis data

Axis	Stroke	Max Speed	Repeatability
1	$\pm 132^\circ$	$600^\circ/\text{s}$	$\pm 0.025 \text{ mm}$ Axis 1,2
2	$\pm 141^\circ$	$600^\circ/\text{s}$	
3	0~150 mm	1100 mm/s	$\pm 0.015 \text{ mm}$ Axis 3
4	$\pm 360^\circ$	$2000^\circ/\text{s}$	$\pm 0.01^\circ$ Axis 4



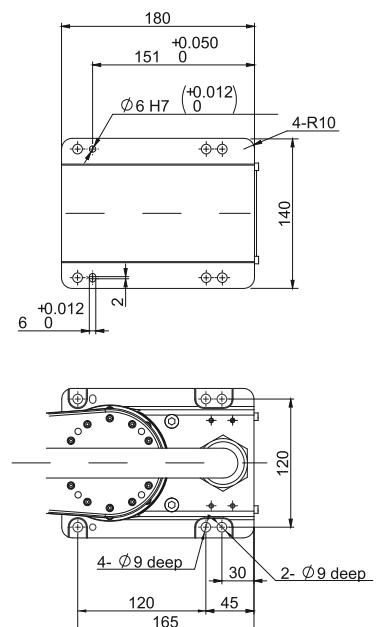
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TECHNICAL INFORMATION

Operating Range



- A Length-Arm #1 & Arm#2 (mm)
- B Length-Arm #1 (mm)
- C Length-Arm #2 (mm)
- D Motion range-Joint #1 ($^\circ$)
- E Motion range-Joint #2 ($^\circ$)
- F Motion range (mm)
- G Motion range of backside (mm)
- H Motion range (mm)

Drilling Pattern



Integration efficiency

Full integration with a selection of EtherCAT TRIO MOTION controllers, synchronizing multiple machine and robot axes within the native Trio software environment. The Controller has integrated robot path planning and can be programmed to control **more of the machine solution and integrate machine elements, including additional axes**

Such a coordinated system simplifies the programming and maximizes performances.



Upstream Communication Possibilities

Modbus TCP/IP Via Ethernet Port



TCP/IP Sockets Via Ethernet Port



EtherCAT[®]

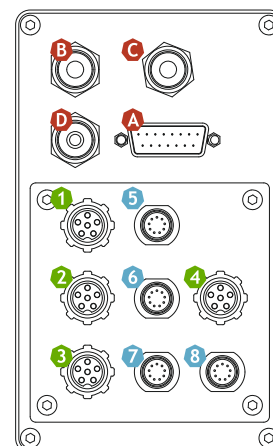
TRIO
MOTION TECHNOLOGY

Motion Perfect

Connectivity

The RX3-400 SCARA gives the possibility to connect compressed air systems and electrical power via a 15 pin D-SUB connector for pneumatic and electrical end.

- | | |
|--|-------------------------|
| A 15 pin D-SUB Electric Connector | 1-4 Power I/Os |
| B 6 mm Pneumatic Connector | 5-8 Encoder I/Os |
| C 6 mm Pneumatic Connector | |
| D 4 mm Pneumatic Connector | |



Mechanical Dimension

