

RS Series Single Axis Robot - Structure/Features

RS
SINGLE AXIS ROBOT

Added wide lineup!! For details, see **P.455**

• Shortest Lead Time...

5th Day Shipping!

• Position Sensor...

High reliability "Resolver" used.

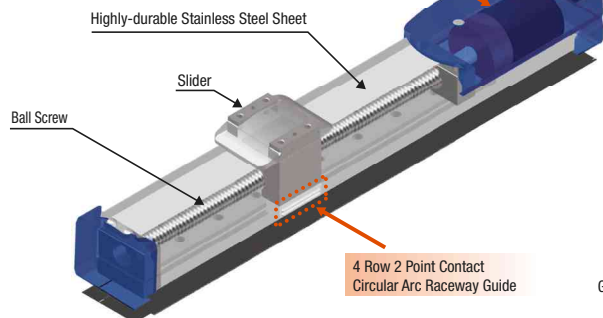
Small, Economical Actuators **RS1/2/3 Series**

Load Capacity: ~ 12kg (Horizontal) ~ 4kg (Vertical)

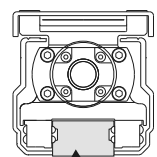
Controller (Incremental Type)



Stepping Motor
(Position Detector: Resolver)



Cross Section View



Guide Rail

Large, High Load Capacity Actuators **RSH1/2/3/4/5 Series**

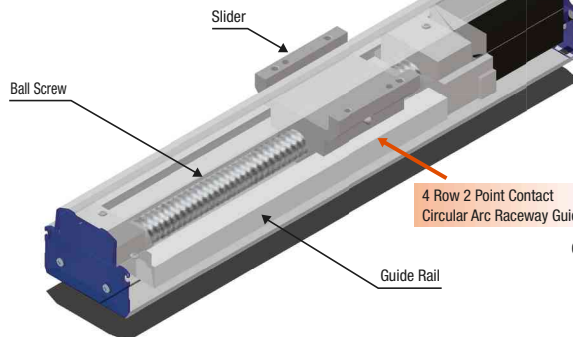
Load Capacity: ~80kg (Horizontal) ~20kg (Vertical)

Controller
(Absolute Type / Incremental Type)

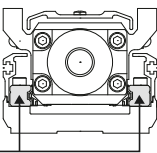
* Absolute encoder requires no homing sequences.



AC Servo Motor (Position Sensor: Resolver)
Built-in



Cross Section View



Guide Rail

Large, High Load Capacity Actuators Width Space-saving Type **RSF4 Series**

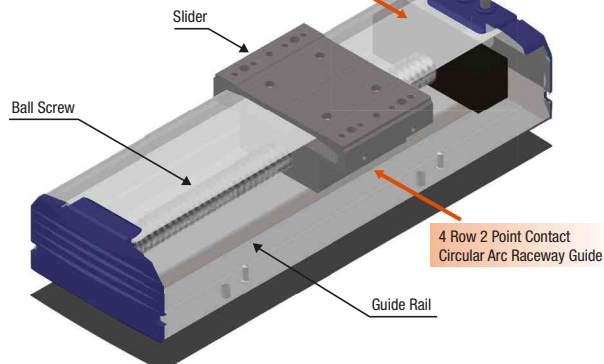
Load Capacity: ~80kg (Horizontal) ~20kg (Vertical)

Controller
(Absolute Type / Incremental Type)

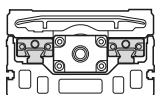
* Absolute encoder requires no homing sequences.



AC Servo Motor (Position Sensor: Resolver)
Built-in



Cross Section View



Guide Rail

Belt Driven Type **RSB1/2** Series

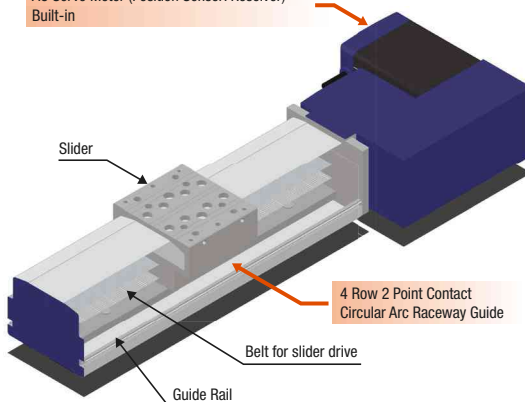
Load Capacity: ~20kg (Horizontal)

Controller
(Absolute Type / Incremental Type)

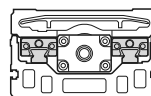
* Absolute encoder requires no homing sequences.



AC Servo Motor (Position Sensor: Resolver)
Built-in



Cross Section View



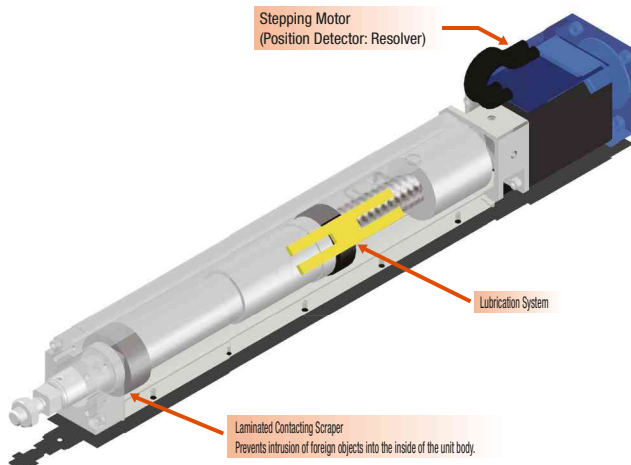
Small, Rod Type **RSD-RSDG1/2/3** Series

Load Capacity: ~ 60kg (Horizontal) ~ 30kg (Vertical)

Controller
(Incremental Type)



Stepping Motor
(Position Detector: Resolver)

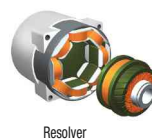


Feature of RS Series

1 Resolver

Resolver is : Simple structure with no active electronics. Resistant to high and low temperatures, shock, electronic noises, dust, oil, etc. Used for applications including automotive, railways and aerospace.

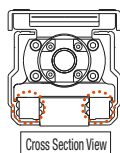
Resolver for detection of motor shaft angle has resulted in higher reliability than the conventional optical encoders.



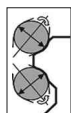
Resolver

2 4 Row 2 Point Contact Circular Arc Raceway Guide

High self compensating ability leads to smooth operations even if rigidity and accuracy on actuator mounting surface are marginal. Due to little differential slip, it can maintain stable performance under heavy loads.



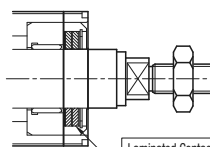
Cross Section View



Circular Arc Raceway

3 Laminated Contacting Scraper and Lubrication System

Laminated contacting structure removes foreign objects and prevents them from intruding into the inside of the unit body. Lubrication system inside the unit body provides long term maintenance-free operation.



Laminated Contacting Scraper