

## Rotary Actuators/Rack & Pinion Type

### Mini Rotary Actuator **CRJ**



- Compact, lightweight
- Flexible mounting: Top, bottom, or side mounting is possible.
- Front or side ported is selectable.

Series	Rack type	Size	Rotating angle Basic type	Rotating angle With external stopper
CRJ	Single	05, 1	90°, 100°, 180°, 190°	90°, 180°

### Rotary Actuator **CRA1/CDRA1**



- Compact auto switches (D-M9□ type) are mountable on 2 surfaces. Auto switch can be mounted from the front.
- Weight reduced by up to 14%
- With air cushion, Easy adjustment of cushion valve
- With auto switch (CRA1 series: CDRA1, CDRA1□□U, CDVRA1)

Type	Series	Rack type	Size	Rotating angle
Standard	CRA1	Single	30, 50, 63, 80, 100	30: 90°, 180° 50 to 100: 90°, 100°, 180°, 190°
Angle adjustable	CRA1□□U	Single	50, 63, 80, 100	90°, 100°, 180°, 190°
With solenoid valve	CVRA1	Single	50, 63, 80, 100	90°, 100°, 180°, 190°

### Compact Rotary Actuator **CRQ2/CDRQ2**



- With cushion
- Equipped with an angle adjustment mechanism
- Single or double axis is selectable.
- With auto switch (CDRQ2 series: CDRQ2)

Series	Rack type	Size	Rotating angle
CRQ2	Double	10, 15, 20, 30, 40	90°, 180°, 360°

### Rotary Table **MSQ**



- Integrated table and rotary actuator
- Equipped with an angle adjustment mechanism
- Easy alignment when mounting the load and the body
- Built-in shock absorber type and external absorber type are selectable.

Type	Series	Rack type	Size	Rotating angle
High precision type	MSQA	Double	1, 2, 3, 7, 10, 20, 30, 50	0 to 190°
Basic type	MSQB	Double	1, 2, 3, 7, 10, 20, 30, 50, 70, 100, 200	0 to 190°
With external absorber	MSQ□□L	Double	10, 20, 30, 50	90°, 180°
With external absorber	MSQ□□H	Double	10, 20, 30, 50	90°, 180°

## Rotary Actuators/Rack & Pinion Type

### 3-Position Rotary Table **MSZ**



- 3-point-stopping is possible.
- Suitable for applications such as distributing workpieces to the left, right, and center
- Can be operated with one valve

Type	Series	Rack type	Size	Stop position adjustment range
High precision type	MSZA	Double	10, 20, 30, 50	Intermediate position: $\pm 10^\circ$ Rotating end: Left/right, both 0 to $95^\circ$ using the intermediate position as a basis
Basic type	MSZB	Double	10, 20, 30, 50	Intermediate position: $\pm 10^\circ$ Rotating end: Left/right, both 0 to $95^\circ$ using the intermediate position as a basis

### Low Speed Rotary Actuator **CRQ2X/CDRQ2X/MSQX**



- It is possible to transfer workpieces at lower speeds. (5 s/ $90^\circ$ )
- With auto switch (CDRQ2X series: CDRQ2X)

Series	Rack type	Size	Rotating angle
CRQ2X	Double	10, 15, 20, 30, 40	$80^\circ$ to $100^\circ$ , $170^\circ$ to $190^\circ$
MSQX	Double	10, 20, 30, 50	$0^\circ$ to $190^\circ$

### Rotary Cylinder **MRQ**



- Rectilinear rotation unit that integrates a slim cylinder and a rotary actuator
- It is possible to select types with an air cushion on the linear motion parts.
- Angle adjustable

Series	Size	Rotating angle	Linear motion parts standard stroke
MRQ	32, 40	$90^\circ$ , $180^\circ$	5, 10, 15, 20, 25, 30, 40, 50, 75, 100