

### MXS Series Slide Cylinder



Ordering Code: **MXS 12 × 50** □ - □

**Series Code**  
MXS: Air Slide Table

**Cylinder Bore**  
6mm~20mm

**Stroke**  
10mm~150mm

**Adjuster Option**  
Blank: Standard  
AS: Adjuster on extension end  
AT: Adjuster on retraction end  
A: Adjuster on both ends  
BS: Absorber on extension end (not available forΦ6)  
BT: Absorber on retraction end (not available forΦ6)  
B: Absorber on both ends (not available forΦ6)

**Function Option**  
Blank: Standard  
F: With buffer  
R: With end lock (not available forΦ6)  
P: Axial Piping Type  
FR: With buffer and end lock(not available forΦ6)  
FP: With Buffer and axial Piping Type

Specification

| Bore(mm)                          | 6×2<br>(Equivalent Φ8)                     | 8×2<br>(Equivalent Φ11) | 12×2<br>(Equivalent Φ17) | 16×2<br>(Equivalent Φ22) | 20×2<br>(Equivalent Φ28) | 25×2<br>(Equivalent Φ35) |
|-----------------------------------|--|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Working Medium                    | Air(to be filtered by 40μm filter element) |                         |                          |                          |                          |                          |
| Action Way                        | Double-acting                              |                         |                          |                          |                          |                          |
| Maximum Operating Pressure        | 0.7MPa                                     |                         |                          |                          |                          |                          |
| Minimum Operating Pressure        | 0.15MPa                                    |                         |                          |                          |                          |                          |
| Environment And Fluid Temperature | -10~+60°C                                  |                         |                          |                          |                          |                          |
| Piston Speed                      | 50~500mm/s                                 |                         |                          |                          |                          |                          |
| Buffering                         | Rubber buffer(standard)                    |                         |                          |                          |                          |                          |
| Lubrication                       | Non-lube                                   |                         |                          |                          |                          |                          |
| Port Size                         | M3×0.5                                     | M5×0.8                  |                          |                          |                          | Rc1/8                    |

### MXQ Series Slide Cylinder



Ordering Code: **MXQ 12 × 50** □ - □ **FR**

**Series Code**  
MXQ: Air Slide Table

**Cylinder Bore**  
6mm~25mm

**Body Option**  
Blank: Standard  
L: Symmetric Type

**Stroke**  
10mm~150mm

**Adjuster Type(optional)**  
Blank: Standard  
AS: Buffer on extension end  
AT: Buffer on retraction end  
A: Buffer on Both ends  
BS: Absorber on extension end(not available forΦ6)  
BT: Absorber on retraction end(not available forΦ6)  
B: Absorber on both ends(not available forΦ6)  
CS: Metal stopper on extension end  
CT: Metal stopper on retraction end  
C: Metal stopper on both ends

**Function Option**  
Blank: Standard  
F: With Buffer  
R: With end lock(not available forΦ6)  
P: Axial piping type  
FR: With buffer and end lock(not available forΦ6)  
FP: With buffer and axial piping type

Specification

| Bore(mm)                          | 6×2<br>(Equivalent Φ8)  | 8×2<br>(Equivalent Φ11) | 12×2<br>(Equivalent Φ17) | 16×2<br>(Equivalent Φ22) | 20×2<br>(Equivalent Φ28) | 25×2<br>(Equivalent Φ35) |
|-----------------------------------|---|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Working medium                    | Air(to be filtered by 40μm filter element)  |                         |                          |                          |                          |                          |
| Action way                        | Double-acting   |                         |                          |                          |                          |                          |
| Maximum operating pressure        | 0.7MPa  |                         |                          |                          |                          |                          |
| Minimum operating pressure        | 0.15MPa   |                         |                          |                          |                          |                          |
| Environment and fluid temperature | -10~+60°C (But not frozen)  |                         |                          |                          |                          |                          |
| Specifications                    | 50~500mm/s(Adjuster option/Metal stoppe:50~200mm/s)   |                         |                          |                          |                          |                          |
| Cushion                           | Rubber buffer(standard,Adjuster option/Rubber stopper) Shock absorber(Adjuster option/Shock absorber) None(Adjuster option/Metal stopper) |                         |                          |                          |                          |                          |
| Stroke length tolerance           | No need   |                         |                          |                          |                          |                          |
| Lubricatin                        | Non-Lub   |                         |                          |                          |                          |                          |
| Port Size                         | M3×0.5  | M3×0.8                  |                          |                          |                          | Rc1/8                    |

### CRB2 Series Vane Rotary Actuators



Ordering Code: **CRB2 B W U 10 - 180 S**

**Series Code**  
CRB2: Rotary Vane  
CDRB2: With Magnet

**Mounting Type**  
B: Basic Type  
F: Flange Type(Not available for Φ40)

**Shaft Type**  
S: Single Shaft  
W: Double shaft

**Angle Adjuster**  
Blank: Without  
U: With

**Cylinder Bore**  
10mm~40mm

**Rotation Angle**  
90: 90°  
100: 100°(Double Vane)  
180: 180° (Single Vane)  
270: 270° (Single Vane)

**Vane Type**  
S: Single Vane  
D: Double Vane

Specification

| Bore(mm)  | 10   | 15           | 20  | 30      | 40     |        |        |
|---|--|--------------|---|---------|--------|--------|--------|
| Working medium                                  | Air(to be filtered by 40μm filter element) |              |   |         |        |        |        |
| Max.operating pressure                          | 0.7  |              | 1.0   |         |        |        |        |
| Min.operating pressure                          | 0.2  |              | 0.15  |         |        |        |        |
| Ambient and fluid temperature                   |  |              | 5~60  |         |        |        |        |
| Rotation time adjustment range                  | 0.03~0.3                                   |              | 0.04~0.3 0.07~0.5   |         |        |        |        |
| Allowable kinetic energy                        | Single vane                                | With cushion | 0.00015   | 0.00025 | 0.0001 | 0.015  | 0.03   |
|   | Without cushion                            |              | 0.001   |         | 0.003  | 0.02   | 0.04   |
| Shaft load                                      | Double vane                                |              | 0.0003  | 0.0012  | 0.0033 | 0.02   | 0.04   |
|   | Radial                                     |              | 15  | 15      | 25     | 30     | 60     |
| Connection size                                 | Thrust                                     |              | 10  | 10      | 20     | 25     | 40     |
|   | Side ported                                |              | M3×0.5  |         |        | M5×0.8 |        |
| Angle adjustable range of angle adjustment unit | Double vane                                |              | (Single-blade cylinder side swing angle 90°, 180°-M5×0.8) |         |        |        |        |
|   | Single vane                                |              | 0~230°  |         | 0~240° |        | 0~230° |
|   | Double vane                                |              |   |         | 0~90°  |        |        |

### MRHQ Series Rotary Gripper(Angular Type)



Ordering Code: **MRHQ 10 D - 90 S**

**Series Code**  
MRHQ: Rotary 2 Fingers Gripper

**Cylinder Bore**  
10mm~25mm

**Action**  
D: Double-acting  
S: Single-acting (Normally Open)  
C: Single-acting (Normally Closed)

**Rotation Angle**  
90: 90°  
180: 180°

**Single Vane**  
Single Vane

Specification

| Bore(mm)                                      | 10   | 16            | 20       | 25       |
|---|--|---------------|----------|----------|
| Working Medium                                | Air(to be filtered by 40μm filter element) |               |          |          |
| Claw Motion Pattern                           | 0.7  |               |          |          |
| Operating Pressure Range (Mpa)                | Rotating                                   | 0.25~0.7      |          | 0.25~1.0 |
|   | Claw                                       | Double Action | 0.25~0.7 | 0.1~0.7  |
|   | Single Action                              | 0.35~0.7      |          | 0.25~0.7 |
| Pendulum Angle                                | 90°±10°, 180°±10°                          |               |          |          |
| Claw Gripe Open Close Repeatability Precision | ±0.01mm                                    |               |          |          |
| Claw Highest Motion Frequency                 | 180c.p.m                                   |               |          |          |
| Ambient And Fluid Temperature                 | 5~60°C (Not freezing)                      |               |          |          |
| Pendulum Adjustable Time                      | 0.07~0.3s/90° (0.5MPa)                     |               |          |          |
| Permission Kinetic Energy (J)                 | 0.0046                                     | 0.014         | 0.034    | 0.074    |
| Gripper Open Close Stroke (mm)                | 4  | 61            | 0        | 14       |