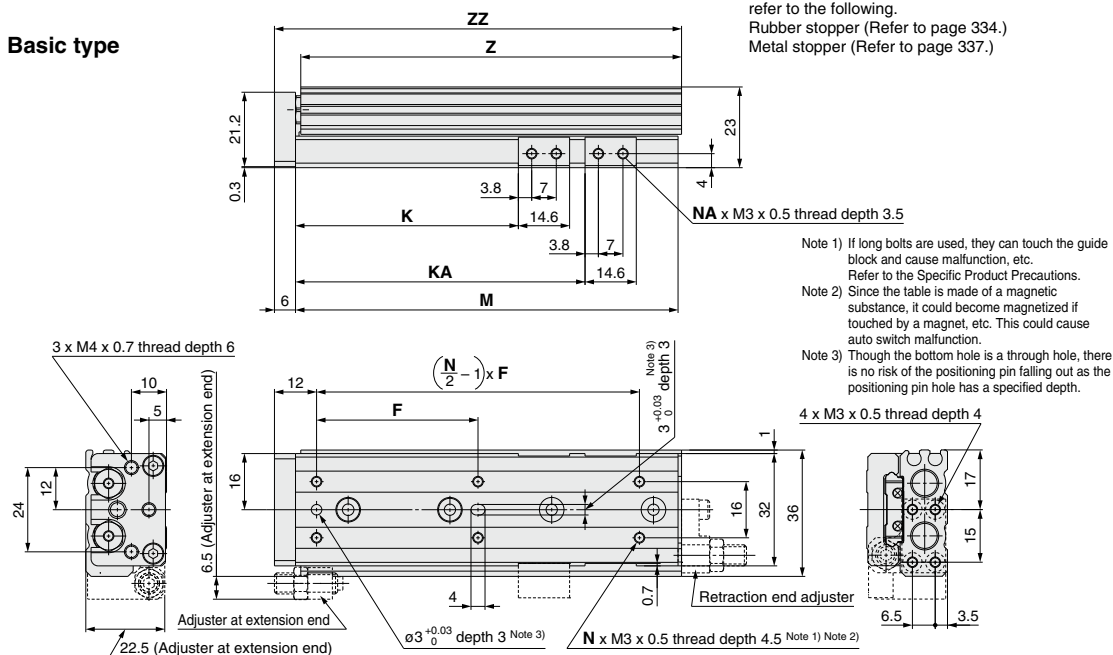


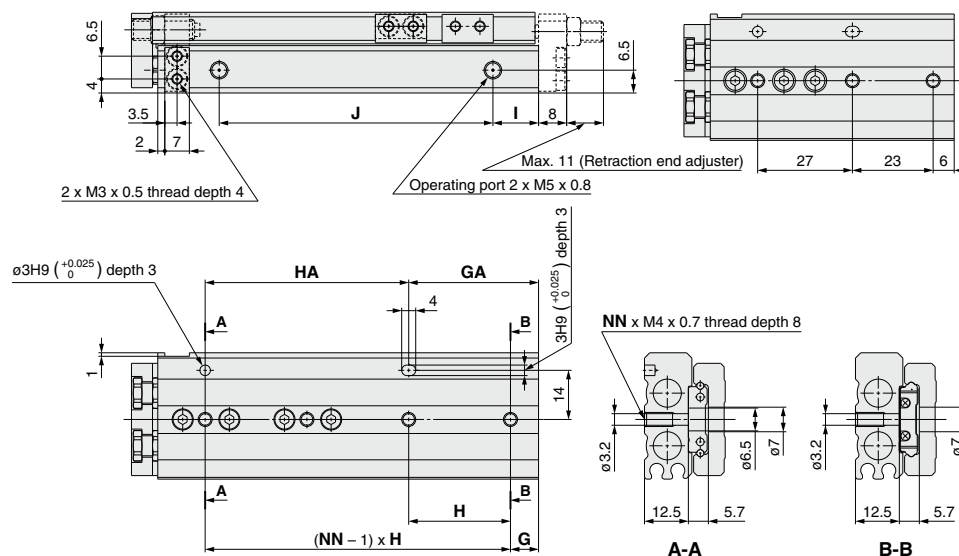
MXQ Series

Dimensions: MXQ8L/Symmetric Type

Basic type



Bottom view of MXQ8L-30



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ8L-10	25	4	7	25	2	13	19	11	17	23.5	—	4	46	45.5	53
MXQ8L-20	25	4	14	28	2	14	28	10	28	33.5	—	4	56	55.5	63
MXQ8L-30	26	6	(Note)	(Note)	3	29	27	12	40	43.5	—	4	70	69.5	77
MXQ8L-40	32	6	8	31	3	39	31	14	52	53.5	—	4	84	83.5	91
MXQ8L-50	46	6	8	29	4	37	58	13	78	63.5	82.5	8	109	108.5	116
MXQ8L-75	50	6	31	30	4	61	60	12	105	88.5	112.5	8	135	134.5	142

Note) Refer to the bottom view of MXQ8L-30.

316



Air Slide Table

MXQ Series

ø6, ø8, ø12, ø16, ø20, ø25

RoHS

Integration of the guide rail and the table.
Uses a recirculating linear guide for high rigidity and high precision.
Air slide table for precision assembly processes.

High precision, compact design

Comparison of MXQ and MXS

Model	Repeatability		Dimensions (mm)		
	Parallelism	Height tolerance	Width	Height	Overall length
MXQ12-30	0.035	±0.08	46	30	86
MXS12-30	0.2	±0.2	50	32	80

Symmetric type is also standardized.

Available for all options

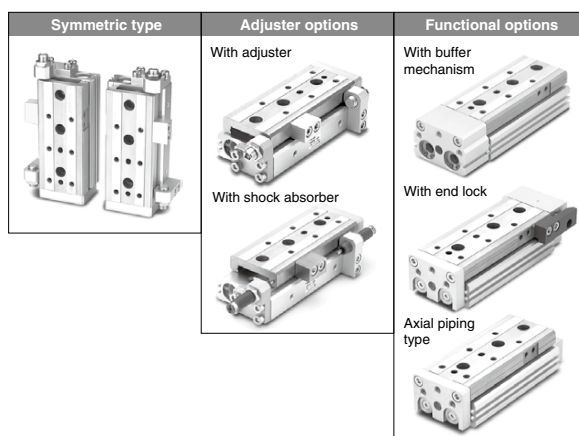


Auto switch mounting grooves designed for safety

An installed auto switch in the groove of the housing body is flush with the surface.

Wide variety of options

Adjuster option and function option can be combined.



Improved load resistance

Load resistance against sudden and excessive external forces is nearly three times greater than the MXS series.

Improved mounting repeatability of the workpiece and body

Machining of positioning hole

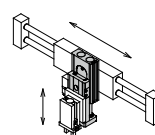
Improved strength of the end plate

End plate uses extra super duralumin. (Except the one with buffer)

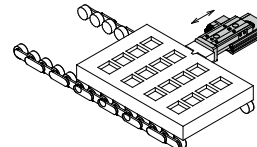


Application examples

As Z-axis for picking and placing



For positioning pallets on a conveyor

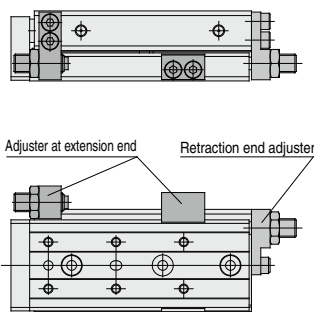


Air Slide Table *MXQ Series*

Series Variations

Model		Bore size	Standard stroke (mm)										Adjuster option									Functional option			Auto switch
			10	20	30	40	50	75	100	125	150	Rubber stopper			Shock absorber			Metal stopper			With buffer	With end lock	Axial piping type		
Standard type	Symmetric type	(mm)											Extension end	Retraction end	Both ends	Extension end	Retraction end	Both ends	Extension end	Retraction end	Both ends				
MXQ 6	MXQ6L	6	●	●	●	●	●						●	●	●	●	●	●	●	●	●	●	●	●	Reed auto switch • D-A9□ • D-A9□V Solid state auto switch • D-M9□ • D-M9□V 2-color indicator solid state auto switch • D-M9□W • D-M9□WV
MXQ 8	MXQ8L	8	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●	●	●	
MXQ12	MXQ12L	12	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	
MXQ16	MXQ16L	16	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	
MXQ20	MXQ20L	20	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	
MXQ25	MXQ25L	25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Adjuster Option



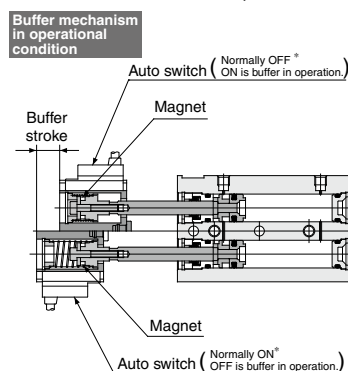
Three different types of adjusting bolt have been standardized for front end rear and double end adjusters and cushion mechanisms.

- Rubber stopper
Standard adjuster
- Shock absorber
For use in harsh conditions.
Absorbs the impact at the stroke end for smooth stopping.
Improved stopping accuracy.
- Metal stopper
Improved stopping accuracy.
Without cushioning function for use with light loads and low speeds.

Functional Option

With Buffer Mechanism

- Protects workpieces and tools, etc., by eliminating impact at the end of the extension stroke.
- Buffer unit is auto switch capable.

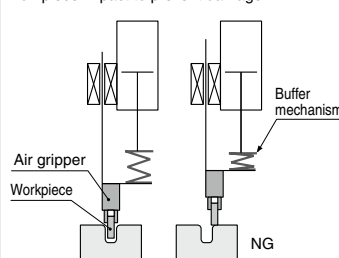


Normal condition

* The normally ON/OFF setting is changed by changing the direction of the auto switch mounting.

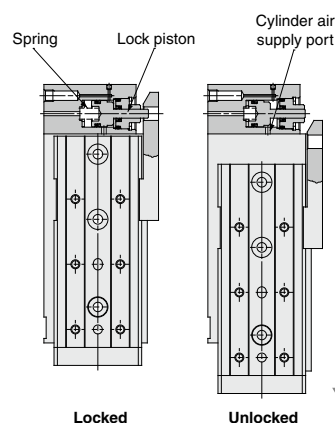
Application Example

In workpiece insertion processes when there is a problem such as faulty positioning, the buffer mechanism absorbs the shock from the workpiece impact to prevent damage.



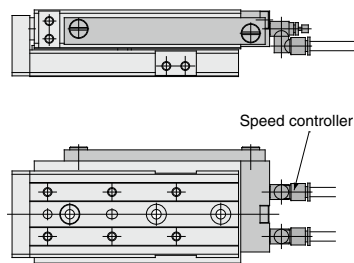
With End Lock

- Holds the cylinder's home position to prevent dropping of the workpiece even if the air supply is cut off.



Axial Piping Type

- Centralized piping in axial direction to maintain clear space around the body.



MXQ Series

Theoretical Output



The dual rod ensures an output twice that of current cylinders.

(N)

Bore size (mm)	Rod size (mm)	Operating direction	Piston area (mm ²)	Operating pressure (MPa)					
				0.2	0.3	0.4	0.5	0.6	0.7
6	3	OUT	57	11	17	23	29	34	40
		IN	42	8	13	17	21	25	29
8	4	OUT	101	20	30	40	51	61	71
		IN	75	15	23	30	38	45	53
12	6	OUT	226	45	68	90	113	136	158
		IN	170	34	51	68	85	102	119
16	8	OUT	402	80	121	161	201	241	281
		IN	302	60	91	121	151	181	211
20	10	OUT	628	126	188	251	314	377	440
		IN	471	94	141	188	236	283	330
25	12	OUT	982	196	295	393	491	589	687
		IN	756	151	227	302	378	454	529

Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm²)

Weight

(g)

Model	Standard stroke (mm)									Additional weight of adjuster option						Extra for option		
	10	20	30	40	50	75	100	125	150	Rubber stopper		Shock absorber		Metal stopper		With buffer	With end lock	Axial piping type (S: Stroke (mm))
MXQ 6	100	120	140	180	200	—	—	—	—	6	5	—	—	10	5	25	—	13 + 0.2 S
MXQ 8	140	170	210	250	315	385	—	—	—	10	10	30	23	23	10	35	40	26 + 0.2 S
MXQ12	335	340	380	450	480	645	735	—	—	25	23	47	30	35	23	70	100	43 + 0.2 S
MXQ16	595	600	660	725	820	980	1240	1390	—	45	40	75	53	60	40	105	160	55 + 0.2 S
MXQ20	1085	1085	1085	1180	1380	1720	2310	2600	2890	80	65	170	120	115	65	130	310	166 + 0.5 S
MXQ25	1725	1725	1725	1925	2370	2715	3395	4235	4680	130	110	220	140	180	110	200	560	240 + 0.5 S

Option Specifications

Stroke Adjustment Range of Adjuster Option (Identical for extension and retraction ends)

Type	Stroke adjustment range
Rubber stopper	0 to 5 mm
Shock absorber	Refer to the dimensions on page 336.
Metal stopper	0 to 5 mm

* Optional wide adjustment range adjuster are available with rubber stopper and metal stopper.

How to Order Adjuster (Accessory)

MXQ-AS 12 L-X11

Adjuster option

AS	Rubber stopper	Extension end
AT	stopper	Retraction end
BS	Shock absorber	Extension end
BT	absorber	Retraction end
CS	Metal stopper	Extension end
CT	stopper	Retraction end

Symmetric type

Nil	Standard type
L	Symmetric type

Adjustment range

Nil	5 mm	Standard
-X11	15 mm	Semi-standard
-X12	25 mm	

Applicable bore size

6	ø6
8	ø8
12	ø12
16	ø16
20	ø20
25	ø25

Note 1) -X12 (adjusting range: 25 mm) is not available in the MXQ6 series.
 Note 2) -X11 and -X12 are not available with shock absorber.
 Note 3) With Shock absorber is not available in the MXQ6 series.
 Note 4) For dimensions, refer to pages 334 to 338.
 For the symmetric type, refer to the external dimensions symmetrically.
 (Symmetric type is what the direction of the adjusting bolt is reversed.)



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PRODUCT: MXQ8L-40 / MXQ8L Symmetric Air Slide Table, 40 mm Stroke

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