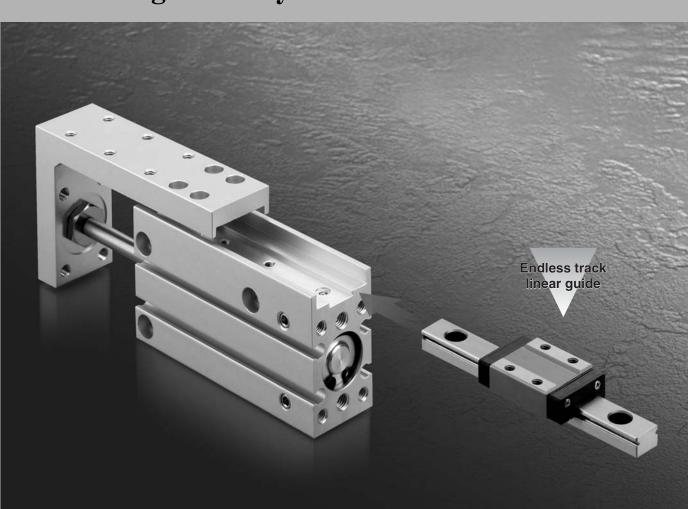
Compact Slide

Series MXH

ø6, ø10, ø16, ø20

The use of an endless track linear guide produces a table cylinder having excellent rigidity, linearity and non-rotating accuracy.



Series Variations

Mastal	Bore size			Sta	ndar	dstro	ke (r	nm)		Made to Order	
Model	(mm)	5	10	15	20	25	30	40	50	60	iwade to Order
MXH6	6	•	•	•	•	•	•	•	•	•	• -XB13 : Low-speed cylinder (5 to 50 mm/s)
MXH10	10	•	•	•	•	•	•	•	•	•	• -XC3□: Special port positions • -XC19: Intermediate stroke (Spacer type)
MXH16	16	•	•	•	•	•	•	•	•	•	• -XC22 : Fluororubber seals
MXH20	20	•	•	•	•	•	•	•	•	•	• -XC79 : Tapped hole, drilled hole, pinned hole machined additionally

MXH

MXU

MXS

MXQ

MXJ

MXP

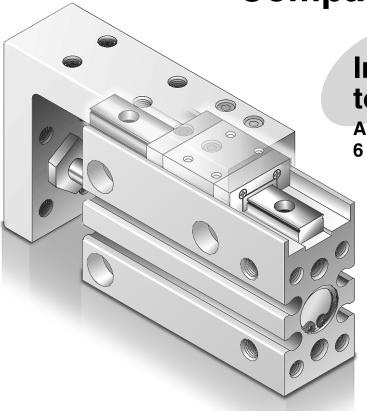
MXY

MTS

D-□ -X□

The use of an endless track linear guide having excellent rigidity, linearity,

Compact Slide Series



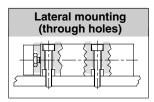
Improved moment tolerance

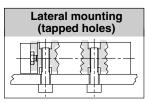
Allowable moment is approximately 6 times greater than the MXU series.

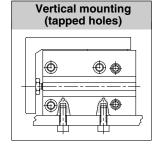
Long strokes up to 60 mm are now standard.

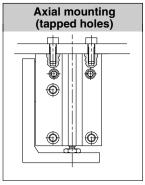
Torrigo Corne	Stroke	e (mm)
Traveling parallelism	5 to 30	40 to 60
paraliciisiii	0.05 mm or less	0.1 mm or less

Mounting is possible from 4 directions.

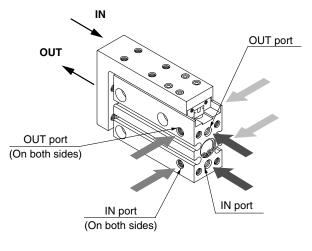








Piping is possible from 3 directions.



If changing the port positions, a made-to-order part number, -XC3 \square , is available.

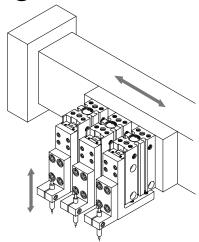
produces a table cylinder non-rotating accuracy.

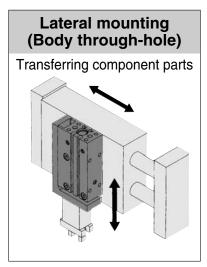


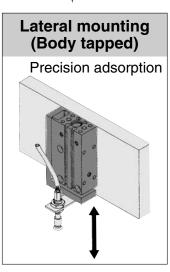
MXH / Ø6, Ø10, Ø16, Ø20

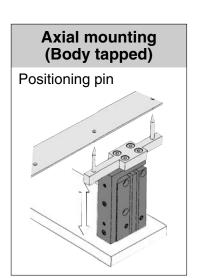
Applicable example

A table cylinder suitable for short pitch mounting









Auto switches offer numerous variations.

Reed switches, solid state switches and 2-color indicator type solid state switches can be mounted.

MXS

MXH

MXU

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

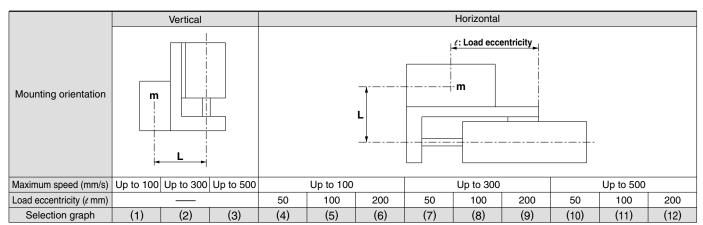
-X□

Individual

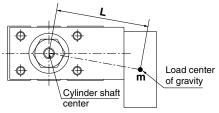
Series MXH Model Selection

↑ Caution Confirmation of theoretical output is required separately. Refer to "Theoretical Output" on page 21.

Selection Conditions: Follow the tables below in order to determine selection conditions and choose one selection graph.



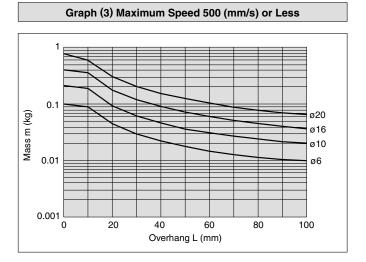
^{*} L: Overhang (the distance from the cylinder shaft center to the load center of gravity) The direction of L can also be a diagonal direction. (See the drawing at right.)

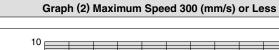


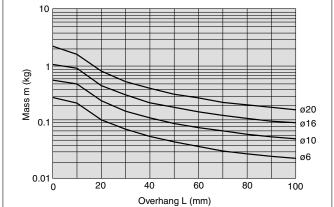
Selection Graph (1) to (3) (Vertical Mounting)

Graph (1) Maximum Speed 100 (mm/s) or Less

Overhang L (mm)







Selection Graph (4) to (12) (Horizontal Mounting)

ø20

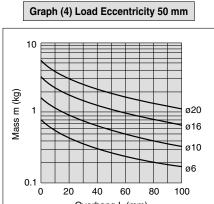
ø16

ø10

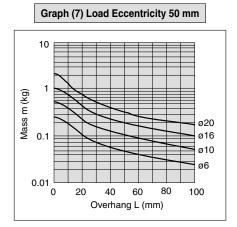
ø6

100

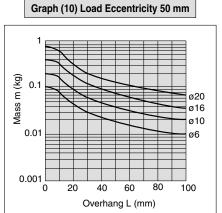
Maximum Speed 100 mm/s or Less



Maximum Speed 300 mm/s or Less



Maximum Speed 500 mm/s or Less



Graph (11) Load Eccentricity 100 mm

Mass m (kg) 0.1

0.01

0.001

20



MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

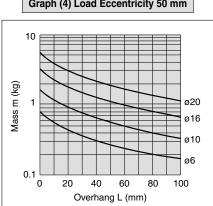
MTS

ø20 ø16

ø10

ø6

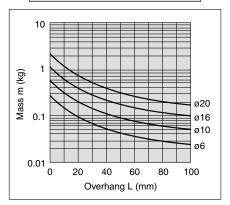
100



Graph (5) Load Eccentricity 100 mm

Mass m (kg)

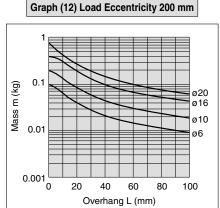
Graph (8) Load Eccentricity 100 mm



Overhang L (mm)

60

40



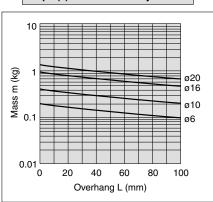
Graph (6) Load Eccentricity 200 mm

Overhang L (mm)

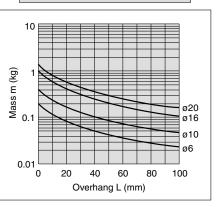
60

40

20



Graph (9) Load Eccentricity 200 mm



Selection Example

Mounting: Vertical 1. Selection conditions Max. speed: 500 mm/s Overhang: 40 mm Load mass: 0.1 kg

2. Selection conditions

Mounting: Horizontal Max. speed: 500 mm/s Load eccentricity: 50 mm Overhang: 30 mm Load mass: 0.1 kg

D-□ -X□

Individual

Refer to Graph (3) based on vertical mounting and a speed of 500

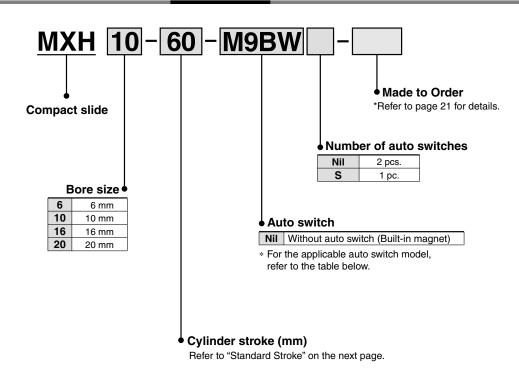
In Graph (3), find the intersection of a 40 mm overhang and load mass of 0.1 kg, which results in a determination of ø20.

Refer to Graph (10) based on horizontal mounting, a speed of 500 mm/s and load eccentricity of 50 mm. In Graph (10), find the intersection of a 30 mm overhang and load

mass of 0.1 kg, which results in a determination of ø16.

Compact Slide Series MXH ø6, ø10, ø16, ø20

How to Order



Applicable Auto Switches/Refer to pages 1719 to 1827 for further information on auto switches

74	Applicable Acto Cwitches/hele to pages 1719 to 1027 for further information on auto switches.																		
		Electrical	ight	Wiring	L	oad volta	ge	Auto swit	ch model	Lead	wire I	ength	n (m)	Dro wired					
Type Special function	entry	Indicator light	(Output)	С	C	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	၂ ၁	Pre-wired connector	Applical	ble load				
				3-wire (NPN)		5 V. 12 V		M9NV	M9N	•	•	•	0	0	IC				
ate L	 = 6			3-wire (PNP)		5 V, 12 V		M9PV	M9P	•		•	0	0	circuit				
it c		Grommet		2-wire	24 V	12 V		M9BV	M9B	•	•	•	0	0	_	Relay,			
S Si		Gionnine	۳	3-wire (NPN)	24 V	5 V, 12 V	_	M9NWV	M9NW	•	•	•	0	0	IC	PLC			
တိ	Diagnostic indication (2-color indication)			3-wire (PNP)	5 V, 12 V		M9PWV	M9PW	•	•	•	0	0	circuit					
	(2-color indication)					2-wire	ì	12 V		M9BWV	M9BW	•	•	•	0	0			
t e	switch	Crommot	, les	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	_	•	_	_	IC circuit	_			
§. ₽	_	Grommet		Grommet	Grommet		2-wire	24 V	12 V	100 V	A93V	A93	•	_	•	_	_	_	Relay,
			2	2-wire	24 V	12 V	100 V or less	A90V	A90	•	_	•	_	_	IC circuit	PLC			

- * Lead wire length symbols: 0.5 mNil (Example) M9NW 1 m M (Example) M9NWM (Example) M9NWL 3 m L (Example) M9NWZ 5 m Z
- * Solid state auto switches marked with "O" are produced upon receipt of order.
- Refer to page 29 for applicable auto switches other than listed above.
 For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.
- * Auto switches are shipped together (not assembled).





Made to Order (Refer to pages 1847, and 1851 to 1954 for details.)

Symbol	Specifications					
-XB13 Low-speed cylinder (5 to 50 mm/s)						
-XC3 Special port positions						
-XC19	Intermediate stroke (Spacer type)					
-XC22	Fluororubber seals					
-XC79	Tapped hole, drilled hole, pinned hole machined additionally					

Specifications

Bore size (mm)	6	10	16	20		
Guide rail width (mm)	5	7	9	12		
Fluid		Ai	r			
Action		Double	acting			
Piping port size		M5 x	0.8			
Minimum operating pressure	0.15 MPa	0.06	MРа	0.05 MPa		
Maximum operating pressure		0.7 N	1Pa	•		
Proof pressure		1.05 [MРа			
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)					
Piston speed		50 to 500) mm/s			
Allowable kinetic energy (J)	0.0125 0.025 0.05					
Lubrication		Non-I	ube			
Cushion	Rubber bumper on both ends					
Stroke length tolerance	+ 1.0 0					
Auto switch (Option)	Reed auto switch: D-A9□ Solid state auto switch: D-M9□, D-M9□W					

Standard Stroke

Bore size (mm)	Standard stroke (mm)
6, 10, 16, 20	5, 10, 15, 20, 25, 30, 40, 50, 60

Note: Intermediate strokes are available with "Made to Order" models (-XC19). (For details, see page 1916.)

Theoretical Output

						(N)			
Bore size	Rod size	Operating	Piston area	Opera	Operating pressure (MPa)				
(mm)	(mm)	direction	(mm²)	0.3	0.5	0.7			
6	3	OUT	28.3	8.49	14.2	19.8			
0	3	IN	21.2	6.36	10.6	14.8			
10	4	OUT	78.5	23.6	39.3	55.0			
10	4	IN	66.0	19.8	33.0	46.2			
16	6	OUT	201	60.3	101	141			
10	0	IN	172	51.6	86.0	121			
20	8	OUT	314	94.2	157	220			
20	0	IN	264	79.2	132	185			

Mass

									(g)
Model				S	troke (mn	n)			
Model	5	10	15	20	25	30	40	50	60
MXH6	62	67	76	81	91	96	111	125	140
MXH10	117	125	140	148	162	170	192	215	238
MXH16	216	227	247	258	279	290	323	353	386
MXH20	437	455	486	505	542	560	597	656	700

D-□

-X□

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

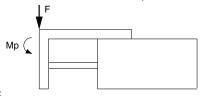
MTS



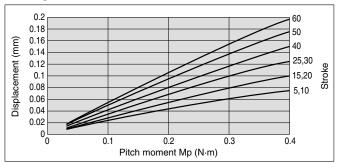
Table Displacement

Table Displacement due to Pitch Moment

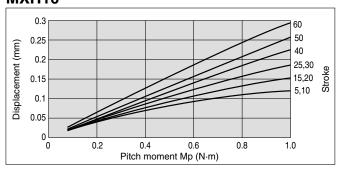
Table displacement (arrow) when a load acts upon the section marked with the arrow at the full stroke of the compact slide



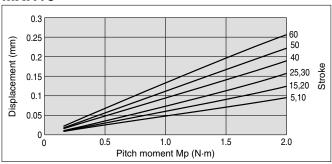
MXH6



MXH10



MXH16



MXH20

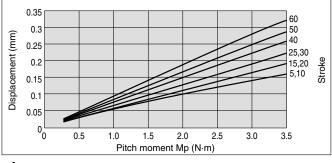
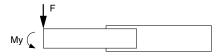
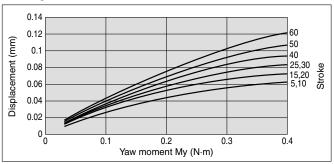


Table Displacement due to Yaw Moment

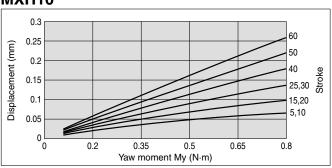
Table displacement (arrow) when a load acts upon the section marked with the arrow at the full stroke of the compact slide



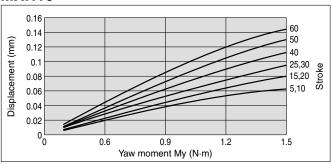
MXH6



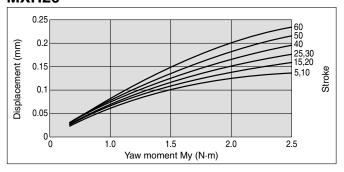
MXH10



MXH16



MXH20



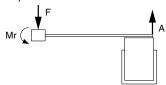
⚠ Caution Caution on Design

- 1. Selection of a bore size cannot be made only with above graphs. Select a bore size in accordance with "Model Selection" on page 18 and 19.
- 2. Displacement may increase after an impact load has been applied. When the table is subjected to an impact load, there may be permanent distortion of the guide unit and increased displacement.

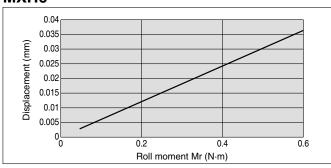
Table Displacement

Table Displacement due to Roll Moment

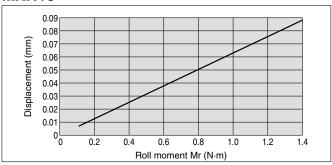
Table displacement (at A) when a load acts upon section F at the full stroke of the compact slide



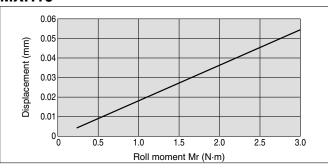
MXH6



MXH10



MXH16



MXH20

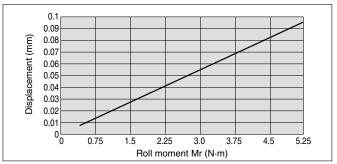


Table Accuracy

Traveling	Strok	e (st)		
Traveling parallelism	5 to 30	40 to 60		
parallelisiti	0.05 mm or less	0.1 mm or less		

Allowable moment (N·m)									
Model	Pitch moment	Yaw moment	Roll moment						
iviodei	Мр	Му	Mr						
MXH6	0.47	0.39	0.59						
MXH10	0.96	0.82	1.37						
MXH16	1.88	1.59	2.75						
MXH20	3.14	2.75	5.49						

MXH

MXU

MXS

MXQ

MXF

MXW

WXW

MXJ

MXP

MXY

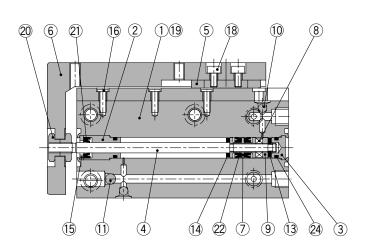
MTS



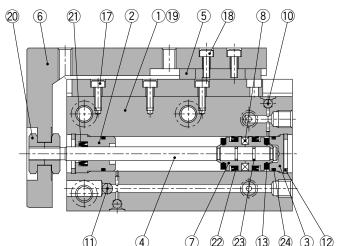
Series MXH

Construction

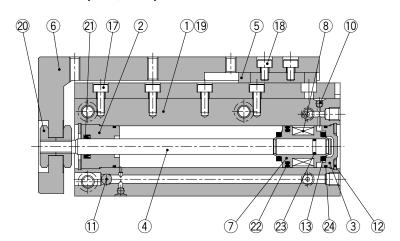
MXH6 (ø6)



MXH10 (ø10)



MXH16/20 (ø16, ø20)



Component Parts

No.	Description	Material	Note
1	Cylinder tube	Aluminum alloy	Hard anodized
2	Rod cover	Brass	
3	Head cover	Brass	ø6, ø10 electroless nickel plated
3	Head Cover	Aluminum alloy	ø16, ø20 chromated
4	Piston rod	Stainless steel	
5	Linear guide	_	
6	Table	Aluminum alloy	Hard anodized
7	Piston	Brass	ø6, ø10
	Piston	Aluminum alloy	ø16, ø20
8	Magnet	_	ø6, ø10 nickel plated
0	wagnet	Synthetic rubber	ø16, ø20
9	Magnet holder	Brass	ø6
10	Steel ball A	High carbon chrome bearing steel	
11	Steel ball B	High carbon chrome bearing steel	

Note: The MXH series cannot be disassembled.

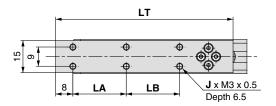
Component Parts

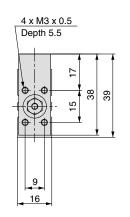
COII	iponent Parts		
No.	Description	Material	Note
12	C-type retaining ring for hole	Carbon tool steel	ø10, ø16, ø20
13	Bumper	Urethane	
14	Bumper	Urethane	
15	Seal retainer	Stainless steel	ø6
16	Round head Phillips screw	Carbon steel	ø6 black zinc chromated
17	Hexagon socket head cap screw	Chromium molybdenum steel	ø10, ø16, ø20 nickel plated
18	Hexagon socket head cap screw	Chromium molybdenum steel	Nickel plated
19	Hexagon socket head plug	Chromium molybdenum steel	Nickel plated
20	Nut	Brass	Nickel plated
21	Rod seal	NBR	
22	Piston seal	NBR	
23	Piston gasket	NBR	ø10, ø16, ø20
24	Gasket	NBR	

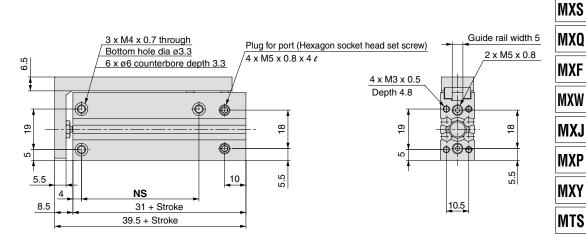


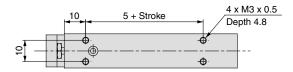


Dimensions: ø6









Stroke (mm)	J	LA	LB	LT	NS
5	4	10	_	42	14
10	4	10	_	42	14
15	4	20	_	52	24
20	4	20	_	52	24
25	4	30	_	62	30
30	4	30	_	62	30
40	6	20	20	72	45
50	6	25	25	82	55
60	6	30	30	92	60

D-□

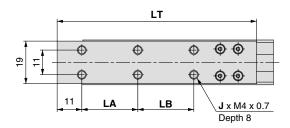
MXH

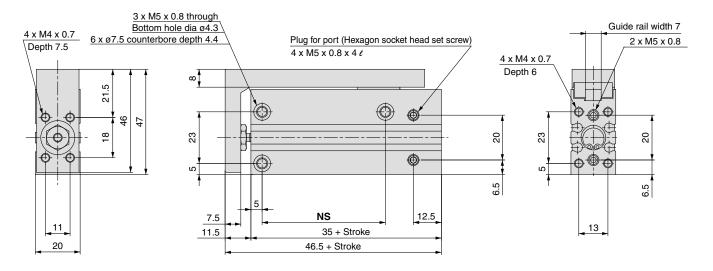
MXU

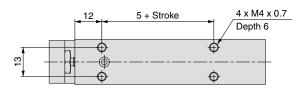


Series MXH

Dimensions: ø10

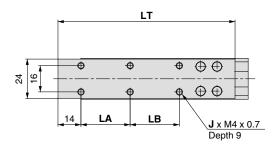


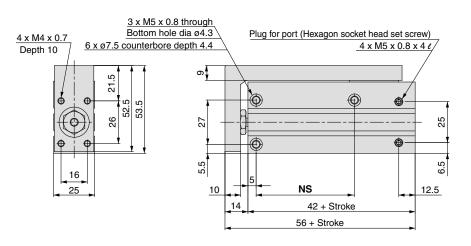


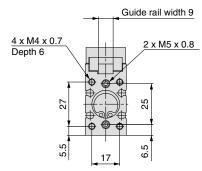


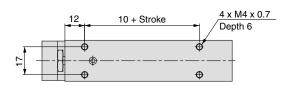
Stroke (mm)	J	LA	LB	LT	NS
5	4	10	_	49	14
10	4	10	_	49	14
15	4	20	_	59	24
20	4	20	_	59	24
25	4	30	_	69	30
30	4	30	_	69	30
40	6	20	20	79	45
50	6	25	25	89	55
60	6	30	30	99	60

Dimensions: ø16









Stroke (mm)	J	LA	LB	LT	NS
5	4	10	_	58	20
10	4	10	_	58	20
15	4	20	_	68	30
20	4	20	_	68	30
25	4	30	_	78	40
30	4	30	_	78	40
40	6	20	20	88	50
50	6	25	25	98	60
60	6	30	30	108	60

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MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

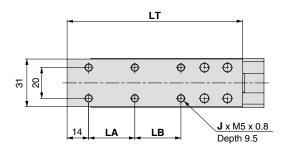
MTS

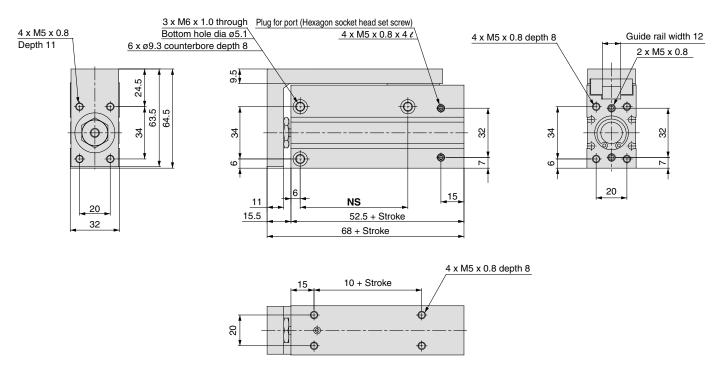
-X□



Series MXH

Dimensions: ø20



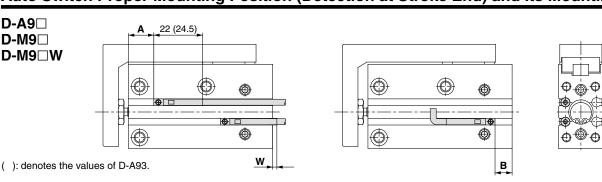


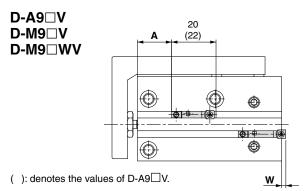
Stroke (mm)	J	LA	LB	LT	NS
5	4	10	_	64	20
10	4	10	_	64	20
15	4	20	_	74	25
20	4	20	_	74	25
25	4	30	_	84	40
30	4	30	_	84	40
40	6	20	20	94	50
50	6	25	25	104	70
60	6	30	30	114	70

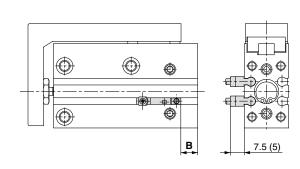
Minimum Stroke for Auto Switch Mounting

			(mm)
NIf	A	pplicable auto switch mod	el
No. of auto switches mounted	D-A9□ D-A9□V	D-M9□ D-M9□V	D-M9□W D-M9□WV
1 pc.	5	5	5
2 pcs.	10	5	10

Auto Switch Proper Mounting Position (Detection at Stroke End) and Its Mounting Height







	(mm								(mm)	
Bore size		D-A9□, D-A9□V							M9□V	
	(mm)	Α	W	В	Α	W	В	Α	W	В
	6	12.5	3.5 (6)	_	16.5	7.5	2.5	16.5	5.5	2.5
	10	11.0	-2.0 (0.5)	3.5	15.0	2.0	7.5	15.0	0	7.5
	16	18.0	-2.0 (0.5)	4.0	22.0	2.0	8.0	22.0	0	8.0
	20	26.0	-4.5 (-2)	6.5	30.0	-0.5	10.5	30.0	-25	10.5

Note 1) Negative figures in the table W indicate an auto switch is mounted inward from the edge of the cylinder body. Note 2) In the case of models with 5 and 10 strokes, the switch may not turn off due to operating range or two switches may turn on simultaneously. Fix switches outside 1 to 4 mm further than the values in the above table. (if 1 switch is used, make sure that it turns ON and OFF properly; if 2 switches are used, make sure that both switches turn ON.)

Note 3) () in column W denotes the dimensions of D-A93.

Operating Rang	je			(mm			
Auto switch model	Bore size						
Auto switch model	6	10	16	20			
D-A9□, A9□V	5	6	9	11			
D-M9□, M9□V	3	3.5	5	6			

^{*} Since this is a guideline including hysteresis, not meant to be guaranteed. (Assuming approximately ±30% dispersion.) There may be the case it will vary substantially depending on an ambient environment.

Besides the models listed in How to Order, the following auto switches are applicable.

* Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H types) are also available. Refer to page 1746 for details.



MXS MXQ

MXH

MXU

MXF

MXW

MXJ

MXP

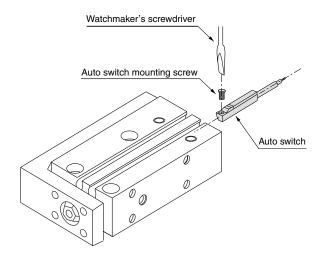
MXY

MTS

D-□

-X□ Individual

Auto Switch Mounting



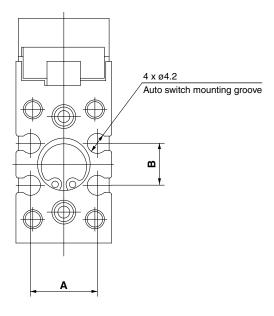
• When tightening the auto switch mounting screw, use a watchmaker's screwdriver with a handle 5 to 6 mm in diameter.

Tightening Torque of Auto Switch Mounting Screw

Auto Switch Mounti	ing Sciew (N·m)
Auto switch model	Tightening torque
D-A9 □(V)	0.10 to 0.20
D-M9□(V)	0.05 to 0.15
D-M9□W(V)	0.03 to 0.13

Note) When used with side piping, it is not possible to mount a D-A9□V, M9□V auto switch type on the side to which the piping is connected.

Auto switch groove position



		(mm)
Bore size (mm)	Α	В
6	10	6.9
10	14	8.8
16	19	13.7
20	26	17.1



Series MXH Specific Product Precautions 1

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 3 to 11 for Actuator and Auto Switch Precautions.

Caution on Handling Auto Switches

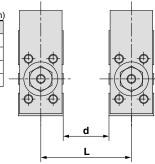
When installing in close proximity to each other

⚠ Caution

1. When compact slide cylinders equipped with D-A9□ or D-M9□ auto switches are used, the auto switches could activate unintentionally if the installed distance is less than the dimension shown in Table (1). Therefore, make sure to provide at least this much clearance. Due to unavoidable circumstances, if they must be used with less distance than the dimensions given in the table below, the cylinders must be shielded. Therefore, affix a steel plate or a magnetic shielding plate (MU-S025) to the area on the cylinder that corresponds to the adjacent auto switch. (Please contact SMC for details.) The auto switch could activate unintentionally if a shielding plate is not used.

Table (1)

10.010 (1)		(111111)
Bore size (mm)	d	L
MXH6	5	21
MXH10	5	25
MXH16	10	35
MXH20	15	47
	-	



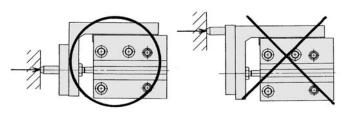
Dimensions of shielding plate (MU-S025) that is sold separately are indicated as reference.



Material: Ferrite stainless steel, Thickness: 0.3 mm Since the back side is treated with adhesive, it is possible to attach to the cylinder.

Operating Precautions

- 1. Do not place your fingers in the clearance between the non-rotating plate and the cylinder tube. Your fingers could get caught between the table and the cylinder tube when the piston rod retracts. If fingers are caught in a cylinder, there is a danger of injury due to the strong cylinder output, and therefore caution must be exercised.
- 2. In terms of the load mass and moment, the cylinder must be operated below the maximum load mass and allowable moment.
- 3. If the output of the compact slide is applied directly to the table, make sure it is applied along the rod axial line. (Refer to the figure below.)

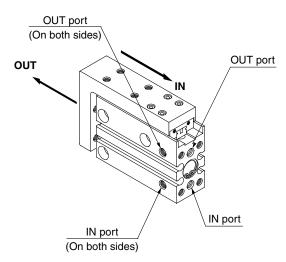


4. Make sure to connect a speed controller and adjust it to a speed of 500 mm/s or less to operate the cylinder.

Operating Direction with Different Pressure Ports

⚠ Caution

 The compact slide can be mounted in three directions. Check the pressure port and the operating direction. (Refer to the figure below.)



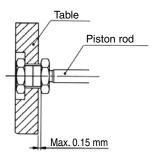
When customers change the port location, please order the plugs listed below.

Replacement plug part no.: CXS10-08-28747A

Stroke Direction Backlash

⚠ Caution

Since the connection between the piston rod and table is a floating structure, there is a maximum table backlash of 0.15 mm in the stroke direction. (Refer to the figure below.)



Piston rod and table connection



MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS





Series MXH Specific Product Precautions 2

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 3 to 11 for Actuator and Auto Switch Precautions.

Mounting

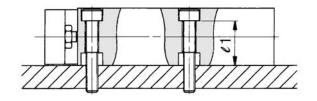
⚠ Caution

1. When tightening threads for compact slide, properly tighten within the specified torque.

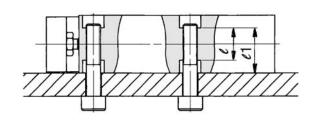
How to Mount a Compact Slide

A compact slide can be mounted from 4 directions. Make a selection suitable for the applicable machinery and workpieces, etc.

Lateral Mounting (Body through-hole)



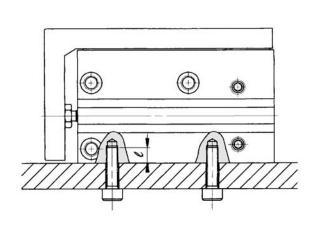
Latera	ΙN	/lounti	ng	(Bod	y 1	tappe	d)



Model	Bolt	Maximum tightening torque (N·m)	<i>e</i> 1
MXH6	M3 x 0.5	1.1	12.7
MXH10	M4 x 0.7	2.5	15.6
MXH16	M4 x 0.7	2.5	20.6
MXH20	M5 x 0.8	5.1	24.0

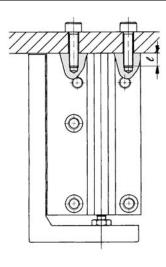
Model	Bolt	Maximum tightening torque (N·m)	€1	l
MXH6	M4 x 0.7	2.5	12.7	9.4
MXH10	M5 x 0.8	5.1	15.6	11.2
MXH16	M5 x 0.8	5.1	20.6	16.2
MXH20	M6 x 1	8.1	24.0	16.0

Vertical Mounting (Body tapped)



Model	Bolt	Maximum tightening torque (N·m)	e
MXH6	M3 x 0.5	1.1	4.8
MXH10	M4 x 0.7	2.5	6
MXH16	M4 x 0.7	2.5	6
MXH20	M5 x 0.8	5.1	8

Axial Mounting (Body tapped)



Model	Bolt	Maximum tightening torque (N·m)	l
MXH6	M3 x 0.5	1.1	4.8
MXH10	M4 x 0.7	2.5	6
MXH16	M4 x 0.7	2.5	6
MXH20	M5 x 0.8	5.1	8



Series MXH Specific Product Precautions 3

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 3 to 11 for Actuator and Auto Switch Precautions.

Mounting

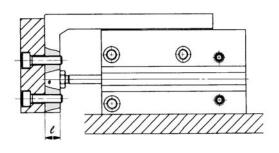
⚠ Caution

- 1. When tightening threads for compact slide, properly tighten within the specified torque.
- 2. When mounting a workpiece on the top of the table, do not screw a bolt in more deeper than the female thread (Below table \ell dimension). If screwing a bolt in more deeper than the \ell dimension, the edge of the bolt could reach the linear guide and might damage the linear guide.

How to Mount a Workpiece

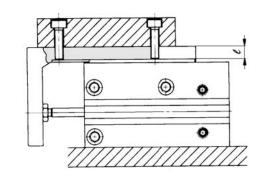
A compact slide can be mounted from 2 directions. Make a selection suitable for the applicable machinery and workpieces, etc.

Front Mounting



Model	Bolt	Maximum tightening torque (N·m)	l
MXH6	M3 x 0.5	1.1	5.5
MXH10	M4 x 0.7	2.5	7.5
MXH16	M4 x 0.7	2.5	10
MXH20	M5 x 0 8	5.1	11

Top Mounting

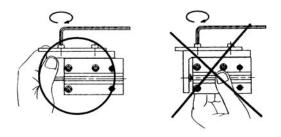


Model	Bolt	Maximum tightening torque (N·m)	l
MXH6	M3 x 0.5	1.1	6.5
MXH10	M4 x 0.7	2.5	8
MXH16	M4 x 0.7	2.5	9
MXH20	M5 x 0.8	5.1	9.5

How to Mount a Workpiece

Workpieces can be mounted on 2 surfaces of the compact slide.

- Since the table is supported by the linear guide, take care not to apply strong impact or large moment, etc. when mounting workpieces.
- Hold the table when fastening workpieces to it with bolts, etc. If the body is held while tightening bolts, etc., the guide section will be subjected to a large moment, and there may be a loss of precision.



- For connection with a load having an external support/guide mechanism, select an appropriate connection method and perform careful alignment.
- Use caution, as scratches or nicks, etc. on the sliding parts of the piston rod can cause malfunction and air leakage.



MXH

MXU

MXS

MXQ

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MXW

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MXP

MXY

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-X□

