

Air Slide Table Series *MXS*

How to Order

Air slide table

MXS 12 **50** **AS** **FR** **M9BW**

Port thread type

Nii	M thread	ø6 to ø16
	Rc	
	NPT	ø20, ø25
	G	

Bore size (Stroke (mm))

6	10, 20, 30, 40, 50
8	10, 20, 30, 40, 50, 75
12	10, 20, 30, 40, 50, 75, 100
16	10, 20, 30, 40, 50, 75, 100, 125
20	10, 20, 30, 40, 50, 75, 100, 125, 150
25	10, 20, 30, 40, 50, 75, 100, 125, 150

Adjuster option

Nil	Without adjuster
AS	Adjuster on extension end
AT	Adjuster on retraction end
A	Adjuster on both ends
BS ⁽¹⁾	Absorber on extension end
BT ⁽¹⁾	Absorber on retraction end
B ⁽¹⁾	Absorber on both ends
ASBT ⁽¹⁾	Adjuster on extension end + Absorber on retraction end
BSAT ⁽¹⁾	Absorber on extension end + Adjuster on retraction end

Note 1) Options BS, BT and B are not available with the MXS6 series.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Made to order
For details refer
to page 55.

Auto switch

Nil	Without auto switch (Built-in magnet)
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* For the applicable auto switch models, refer to the table below. For the applicable auto switches for buffer, refer to page 73.

Functional option

Nil	Standard
F	With buffer
R ⁽²⁾	With end lock
P	Axial piping type
FR ⁽²⁾	With buffer and end lock
FP	With buffer, Axial piping type

Note 2) Option R is not available with the MXS6 series.

Option Combinations

Adjuster option	Functional option	Nil	F	R	P	FR	FP
Nil		○	○	○	○	○	○
AS		○	○ ⁽³⁾	○	○	○ ⁽³⁾	○ ⁽³⁾
AT		○	○	×	×	×	×
A		○	○ ⁽³⁾	×	×	×	×
BS		○	×	○	○	×	×
BT		○	○	×	×	×	×
B		○	×	×	×	×	×
ASBT		○	○ ⁽³⁾	×	×	×	×
BSAT		○	×	×	×	×	×

○: Available ×: Not available

Note 3) When the buffer mechanism and the stroke adjuster on extension end are combined, the buffer stroke will be shorter by the length adjusted by the stroke adjuster on the extension end.

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

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)				Pre-wired connector	Applicable load	
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)			
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○		
				2-wire			M9BV	M9B	●	●	●	○	○		
				3-wire (NPN)		5 V, 12 V	M9NVW	M9NW	●	●	●	○	○		
				3-wire (PNP)			M9PVW	M9PW	●	●	●	○	○		
				2-wire			M9BWW	M9BW	●	●	●	○	○		
Reed switch		Grommet	Yes	3-wire (NPN equivalent)	24 V	5 V	A96V	A96	●	—	●	—	—	IC circuit	—
				2-wire			A93V	A93	●	—	●	—	—	—	Relay, PLC
			No	2-wire		100 V or less	A90V	A90	●	—	●	—	—	IC circuit	—

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWZ

* Solid state auto switches marked with "○" are produced upon receipt of order.

* Since there are additional applicable auto switches than are listed, refer to page 82 for details.

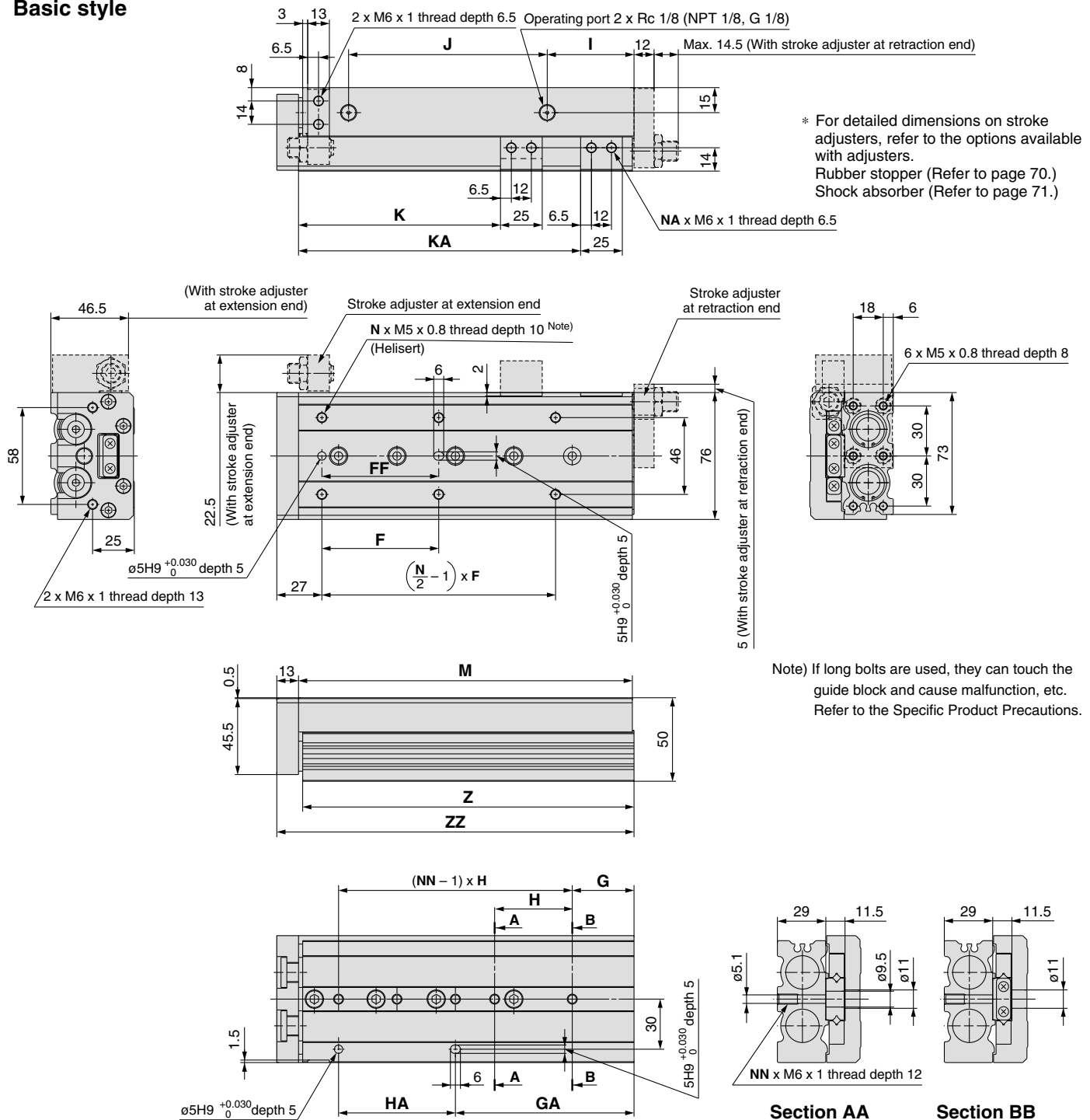
* For details on auto switches with a pre-wired connector, refer to pages 1784 and 1785.

* Auto switches are shipped together (not assembled).

Series MXS

Dimensions: MXS20

Basic style



Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXS20-10	50	40	4	15	45	2	25	35	10	44	31	—	2	83	81.5	97
MXS20-20	50	40	4	15	45	2	25	35	10	44	41	—	2	83	81.5	97
MXS20-30	50	40	4	15	45	2	25	35	10	44	51	—	2	83	81.5	97
MXS20-40	60	50	4	15	55	2	35	35	10	54	61	—	2	93	91.5	107
MXS20-50	35	35	6	15	35	3	50	35	10	69	71	—	2	108	106.5	122
MXS20-75	60	60	6	19	35	4	54	70	10	108	96	—	2	147	145.5	161
MXS20-100	70	70	6	37	35	5	107	70	58	113	121	169	4	200	198.5	214
MXS20-125	70	70	8	41	38	6	155	76	70	155	146	223	4	254	252.5	268
MXS20-150	80	80	8	19	44	7	195	88	87	190	171	275	4	306	304.5	320

Shock Absorber Specifications

Shock absorber model		RB0805	RB0806	RB1007	RB1411	RB1412
Applicable slide table		MXS8	MXS12	MXS16	MXS20	MXS25
Maximum energy absorption (J)		0.98	2.94	5.88	14.7	19.6
Stroke absorption (mm)		5	6	7	11	12
Maximum collision speed (mm/s)		50 to 500				
Maximum operating frequency (cycle/min)		80	80	70	45	45
Maximum allowable thrust (N)		245	245	422	814	814
Ambient temperature range (°C)		-10 to 60				
Spring force (N)	When extended	1.96	1.96	4.22	6.86	6.86
	When retracted	3.83	4.22	6.86	15.30	15.98
Mass (g)		15	15	25	65	65

Note) The shock absorber service life is different from that of the MXS cylinder depending on the operating conditions. Refer to the Specific Product Precautions for the replacement period.

With End Lock Specifications

Model	MXS8	MXS12	MXS16	MXS20	MXS25
Bore size (mm)	8	12	16	20	25
Piston speed	50 to 500 mm/s				
Holding force (N)	25	60	110	160	250

Note) For caution on end lock, refer to page 86.



With Buffer Mechanism Specifications

Model		MXS6	MXS8	MXS12	MXS16	MXS20	MXS25
Bore size (mm)		6	8	12	16	20	25
Piston speed		50 to 500 mm/s (Horizontal mounting 50 to 300 mm/s)					
Buffer stroke (mm)		5		10			
Buffer stroke load (N)	Stroke at 0 mm	3	5	10	13	17	21
	Maximum stroke	6	8	13	17	25	29

Note) For cautions on handling the buffer, refer to page 86.
 Note) If stroke is adjusted with the stroke adjuster at extension end, the buffer stroke is shortened by the adjusted length.



Applicable Auto Switch for Buffer

Type	Model	Specifications	Electrical entry direction
Solid state switch	D-M9BV	With indicator light, 2-wire	Vertical
	D-M9NV	With indicator light, 3-wire, Output: NPN	
	D-M9PV	With indicator light, 3-wire, Output: PNP	

* The auto switch for the buffer must be ordered separately.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXV

MTS

D-□

-X□

Individual
-X□