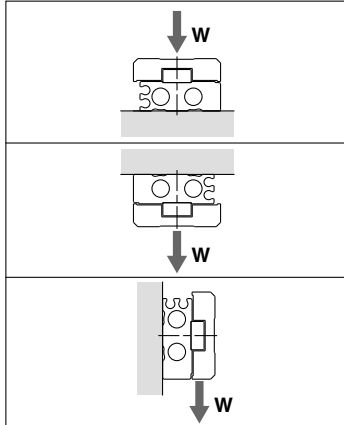


Fig. (1) Load Mass: W (kg)



Note) There is no need to consider this load factor in the case of using perpendicularly in a vertical position.

Fig. (3) Workpiece Mounting Coefficient: K

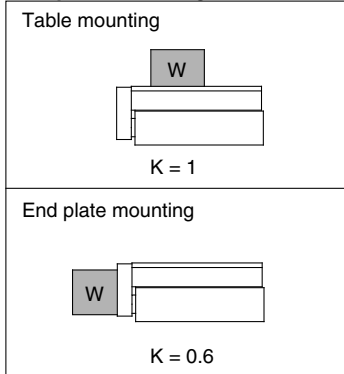


Table (2) Maximum Allowable Load Mass: Wmax (kg)

Model	Maximum allowable load mass
MXS6	0.6
MXS8	1
MXS12	2
MXS16	4
MXS20	6
MXS25	9

Table (4) Maximum Allowable Moment: Mmax (N·m)

Model	Stroke (mm)								
	10	20	30	40	50	75	100	125	150
MXS6	0.7	1.0	1.2	1.2	1.2	—	—	—	—
MXS8	2.0	2.0	2.8	3.6	4.2	4.2	—	—	—
MXS12	4.2	4.2	4.2	5.8	7.0	10.0	10.0	—	—
MXS16	11.3	11.3	11.3	11.3	15.9	25.0	34.1	34.1	—
MXS20	19.4	19.4	19.4	19.4	27.2	35.0	50.5	50.5	50.5
MXS25	30.6	30.6	30.6	30.6	42.8	55.1	67.3	67.3	67.3

Symbol

Symbol	Definition	Unit	Symbol	Definition	Unit
An (n = 1 to 6)	Correction value of moment center position distance	mm	Va	Average speed	mm/s
E	Kinetic energy	J	W	Load mass	kg
Ea	Allowable kinetic energy	J	Wa	Allowable load mass	kg
Emax	Max. allowable kinetic energy	J	We	Mass equivalent to impact	kg
Ln (n = 1 to 3)	Overhang	mm	Wmax	Max. allowable load mass	kg
M (Mp, My, Mr)	Static moment (Pitch, Yaw, Roll)	N·m	α	Load factor	—
Ma (Map, May, Mar)	Allowable static moment (Pitch, Yaw, Roll)	N·m	β	Allowable load mass coefficient	—
Me (Mep, Mey)	Dynamic moment (Pitch, Yaw)	N·m	γ	Allowable moment coefficient	—
Mea (Meap, Meay)	Allowable dynamic moment (Pitch, Yaw)	N·m	δ	Damper coefficient	—
Mmax (Mpm, Mym, Mrmax)	Max. allowable moment (Pitch, Yaw, Roll)	N·m	K	Workpiece mounting coefficient	—
V	Collision speed	mm/s			

Fig. (2) Overhang: Ln (mm), Correction Value of Moment Center Position Distance: An (mm)

	Pitch moment	Yaw moment	Roll moment
Static moment			
Dynamic moment			—

Note) Static moment: Moment generated by gravity
Dynamic moment: Moment generated by impact when colliding with stopper

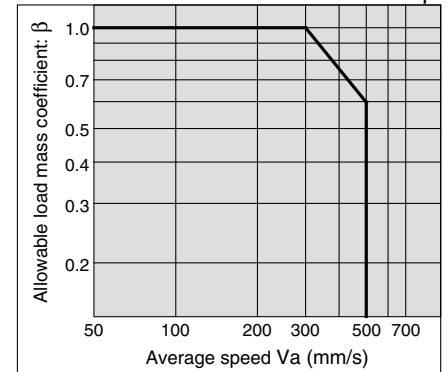
Table (1) Maximum Allowable Kinetic Energy: Emax (J)

Model	Allowable kinetic energy	
	Rubber bumper	Shock absorber
MXS6	0.018	—
MXS8	0.027	0.054
MXS12	0.055	0.11
MXS16	0.11	0.22
MXS20	0.16	0.32
MXS25	0.24	0.48

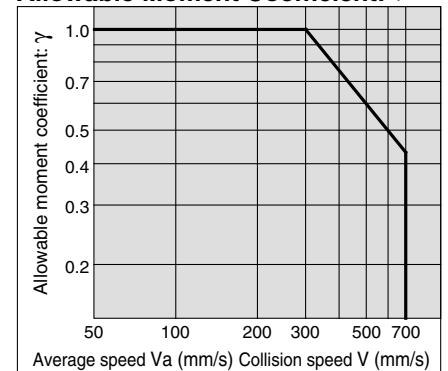
Table (3) Correction Value of Moment Center Position Distance: An (mm)

Model	Correction value of moment center position distance (Refer to Figure 2.)					
	A1	A2	A3	A4	A5	A6
MXS6	11	6	13	16	16	6
MXS8	11	7.5	13	20	20	7.5
MXS12	24	8.5	26	25	25	8.5
MXS16	27	10	30	31	31	10
MXS20	34	14.5	36	38	38	14.5
MXS25	42	19	44	46	46	19

Graph (1) Allowable Load Mass Coefficient: β



Graph (2) Allowable Moment Coefficient: γ



Note) Use the average speed when calculating static moment.
Use the collision speed when calculating dynamic moment.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXV

MTS

D-□

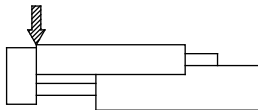
-X□

Individual
-X□

Table Deflection (Reference Values)

Table displacement due to pitch moment load

Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø6

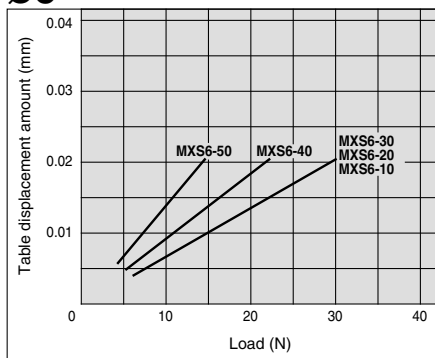
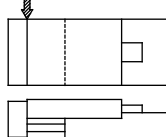


Table displacement due to yaw moment load

Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø6

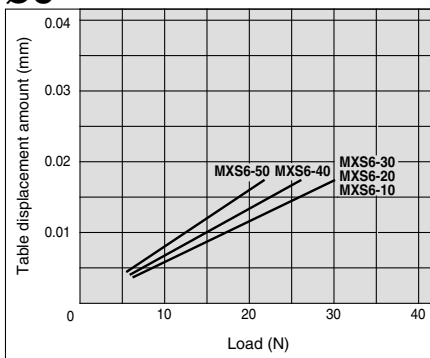
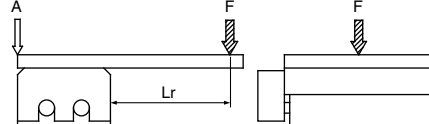
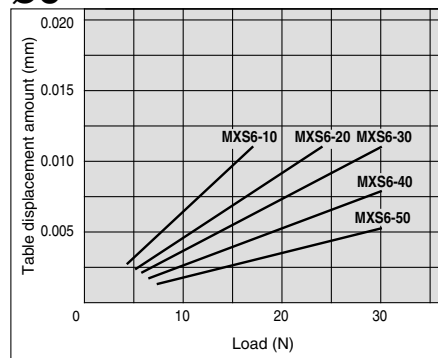


Table displacement due to roll moment load

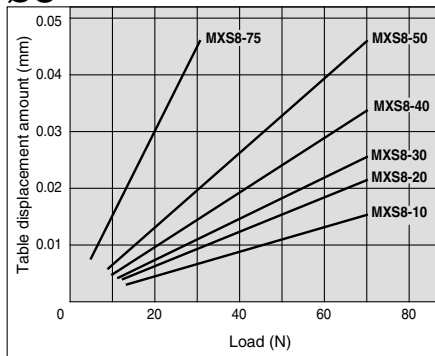
Table displacement of section A when loads are applied to the section F with the slide table retracted.



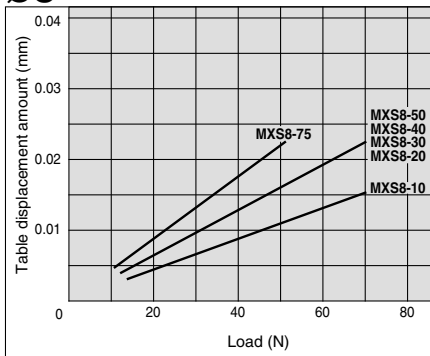
ø6



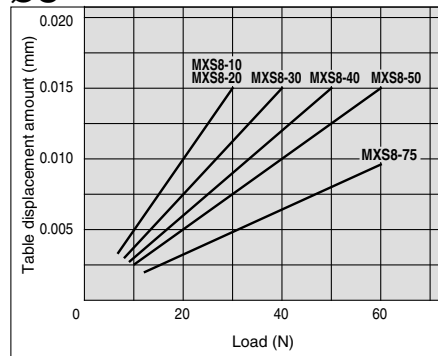
ø8



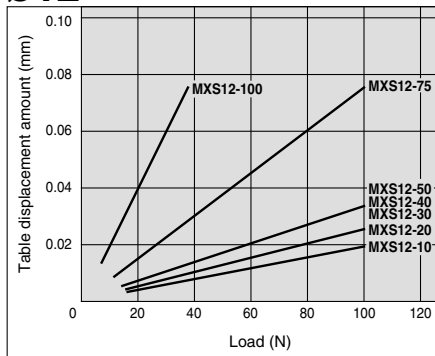
ø8



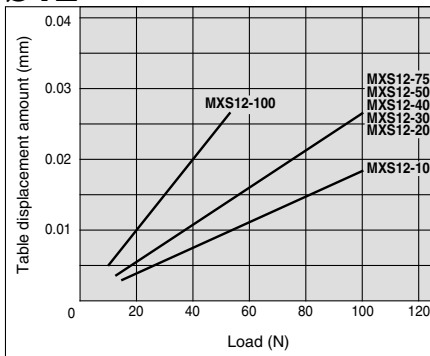
ø8



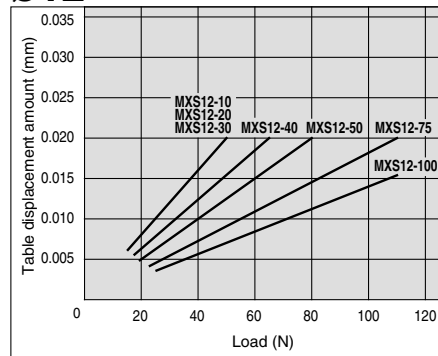
ø12



ø12

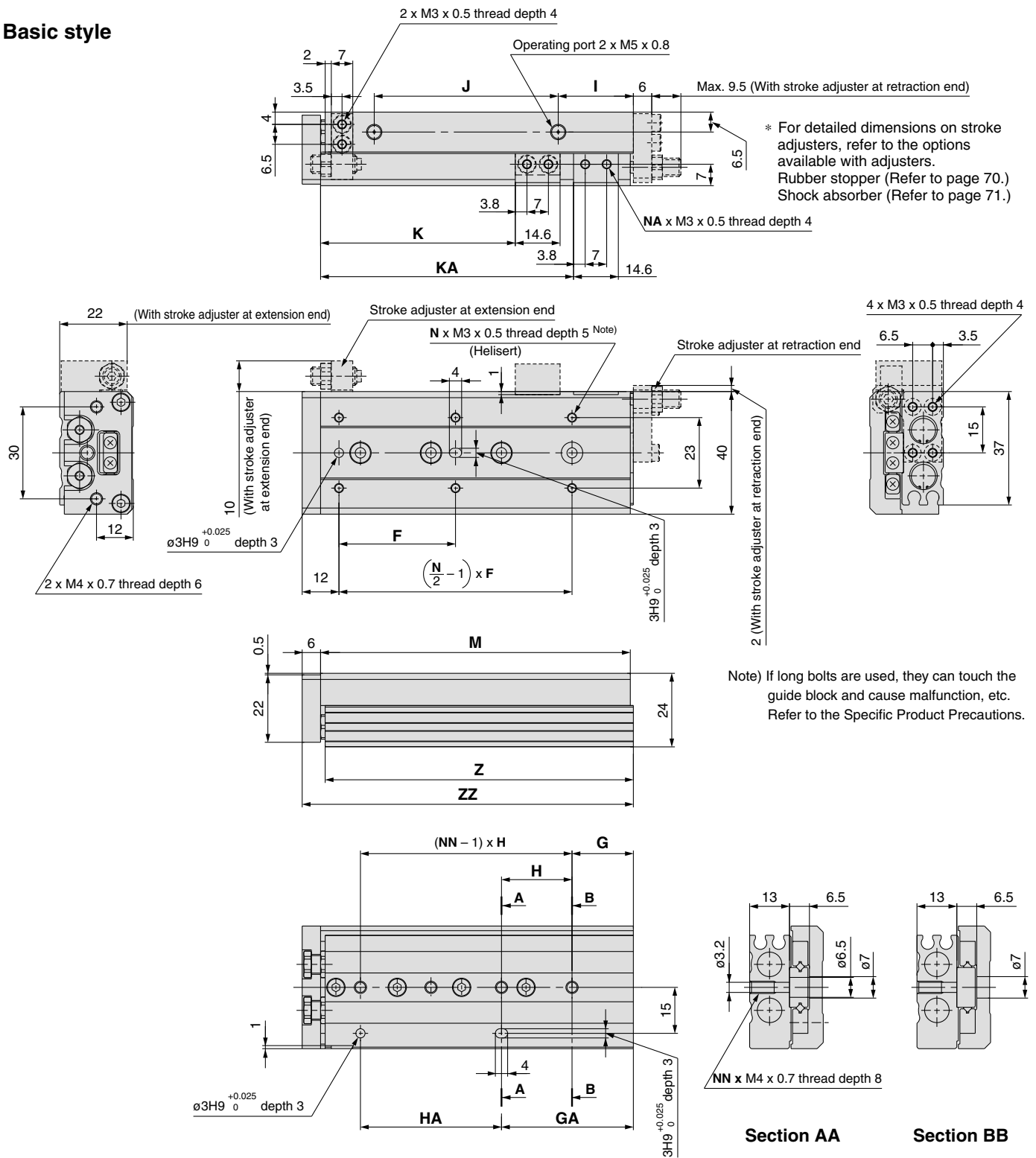


ø12



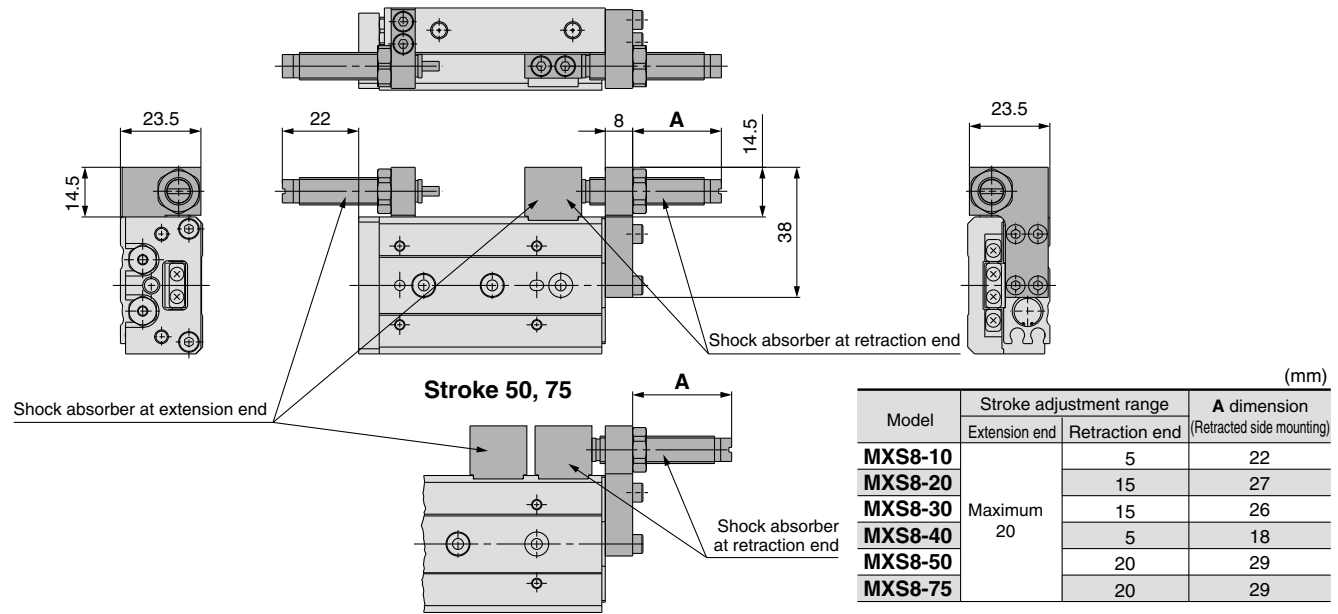
Dimensions: MXS8

Basic style



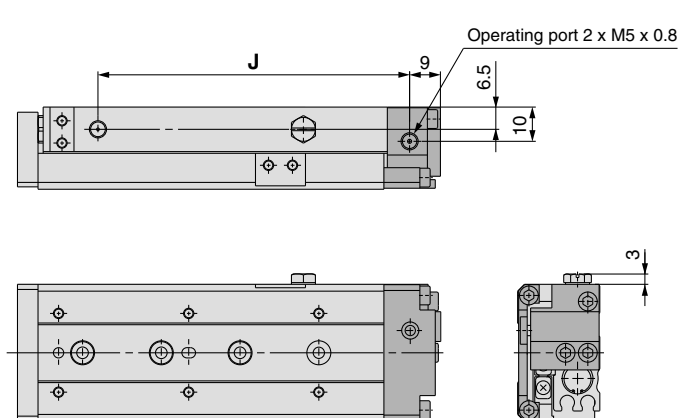
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXS8-10	25	4	9	28	2	17	20	13	19.5	23.5	—	2	49	48.5	56
MXS8-20	25	4	12	30	2	12	30	8.5	29	33.5	—	2	54	53.5	61
MXS8-30	40	4	13	20	3	33	20	9.5	39	43.5	—	2	65	64.5	72
MXS8-40	50	4	15	28	3	43	28	10.5	56	53.5	—	2	83	82.5	90
MXS8-50	38	6	20	23	4	43	46	24.5	60	63.5	82.5	4	101	100.5	108
MXS8-75	50	6	27	28	5	83	56	38.5	96	88.5	132.5	4	151	150.5	158

With shock absorber (ø8) MXS8-□□BS/BT/B

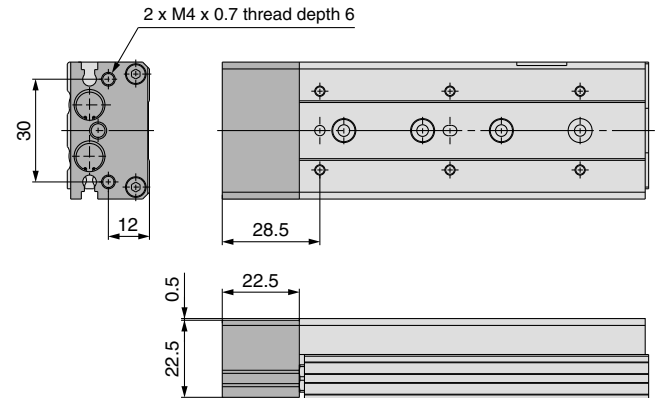


* Other dimensions are the same as the basic style.

With end lock (ø8) MXS8-□□R

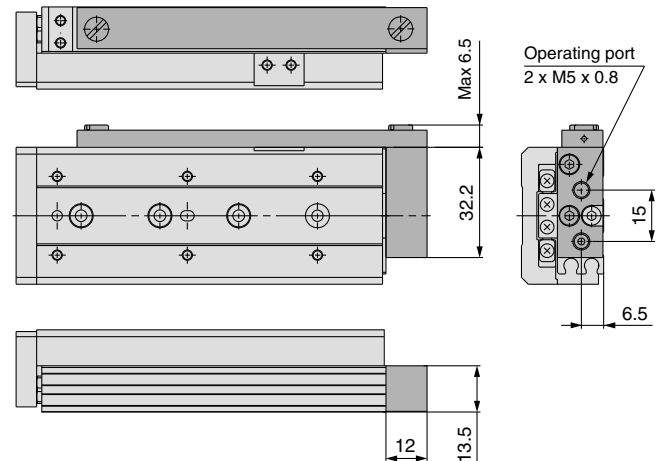


With buffer (ø8) MXS8-□□F



* Other dimensions are the same as the basic style.

Axial piping type (ø8) MXS8-□□P



Model	J (mm)
MXS8-10R	39
MXS8-20R	44
MXS8-30R	55
MXS8-40R	73
MXS8-50R	91
MXS8-75R	141

* Other dimensions are the same as the basic style.

* Other dimensions are the same as the basic style.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXV

MTS

D-□

-X□

Individual

-X□