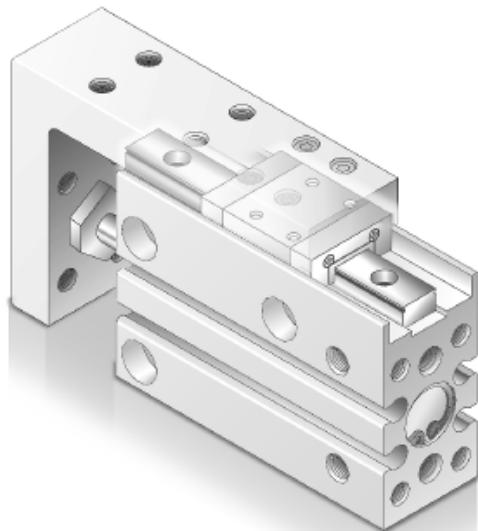


MXH-Z series
Compact guide cylinder

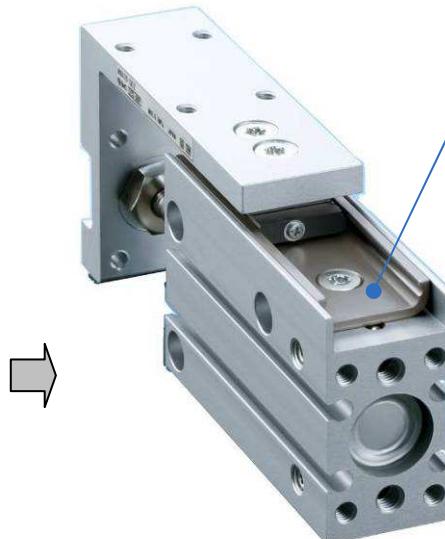
Improved features and related benefits

FEATURE: Rigidity of the linear guide was improved by increasing the diameter of the linear guide's ball bearings and the dimension of the bearing track. As a result, the allowable moment was improved by up to 240%.

CUSTOMER BENEFIT: Expansion of the operating range, longer distance to heavier workpieces can be achieved



MXH



MXH-Z

New High
Rigidity Linear
Guide

FEATURE: Weight reduction of up to 19% by incorporating a new high rigidity linear guide and piston.

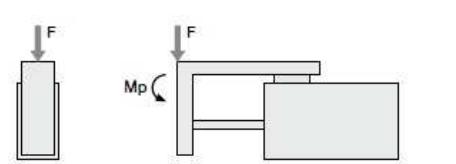
CUSTOMER BENEFIT: Cost reduction due to the downsizing of moving parts.

Technical details

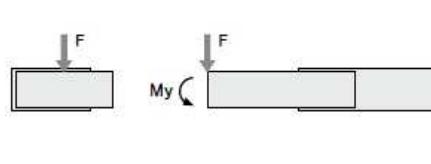
 Differences between MXH and MXH-Z

▪ Allowable moment changes

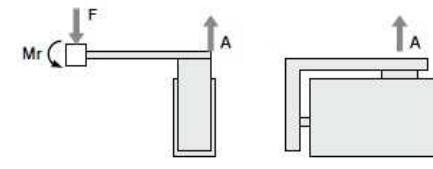
Allowable moment		MXH			MXH-Z			[N·m]
		Pitch moment	Yaw moment	Roll moment	Pitch moment	Yaw moment	Roll moment	
		M _p	M _y	M _r	M _p	M _y	M _r	
Model	MXH6	0.47	0.39	0.59	0.81	0.81	1.40	
	MXH10	0.96	0.82	1.37	1.69	1.69	3.19	
	MXH16	1.88	1.59	2.75	3.49	3.49	6.47	
	MXH20	3.14	2.75	5.49	5.86	5.86	11.66	



Pitch moment



Yaw moment



Roll moment

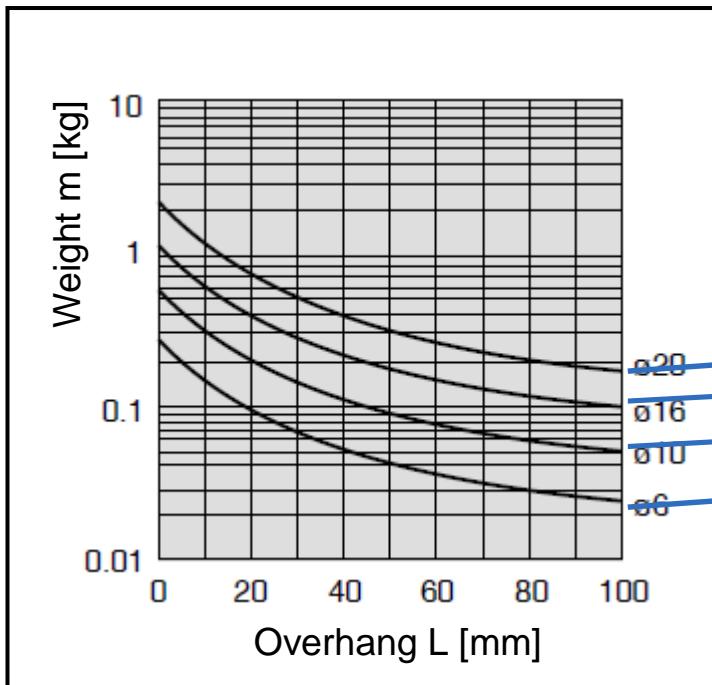
▪ Weight changes

Weight		MXH										MXH-Z										[g]
Stroke [mm]		5	10	15	20	25	30	40	50	60	5	10	15	20	25	30	40	50	60	[g]	[g]	
Model	MXH6	62	67	76	81	91	96	111	125	140	61	66	75	80	88	93	107	120	134			
	MXH10	117	125	140	148	162	170	192	215	238	104	112	125	133	146	153	174	195	216			
	MXH16	216	227	247	258	279	290	323	353	386	194	204	222	232	250	260	288	316	343			
	MXH20	437	455	486	505	542	560	597	656	700	352	369	400	417	448	466	514	562	610			

Technical details

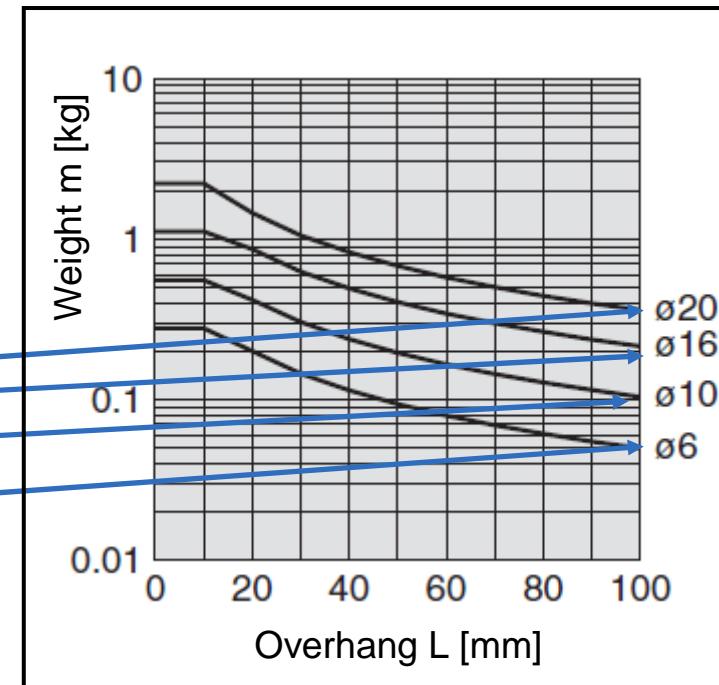
▪ Operating range changes

An increase of the allowable moment expands the operating range.

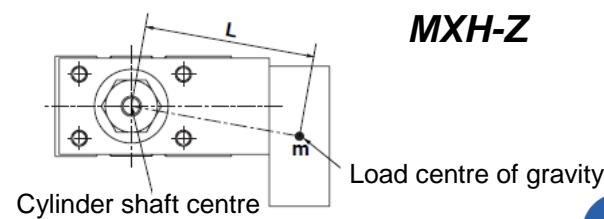


MXH

Conditions for comparison: Horizontal mounting,
Speed: 300mm/s or less, eccentric load: 100mm



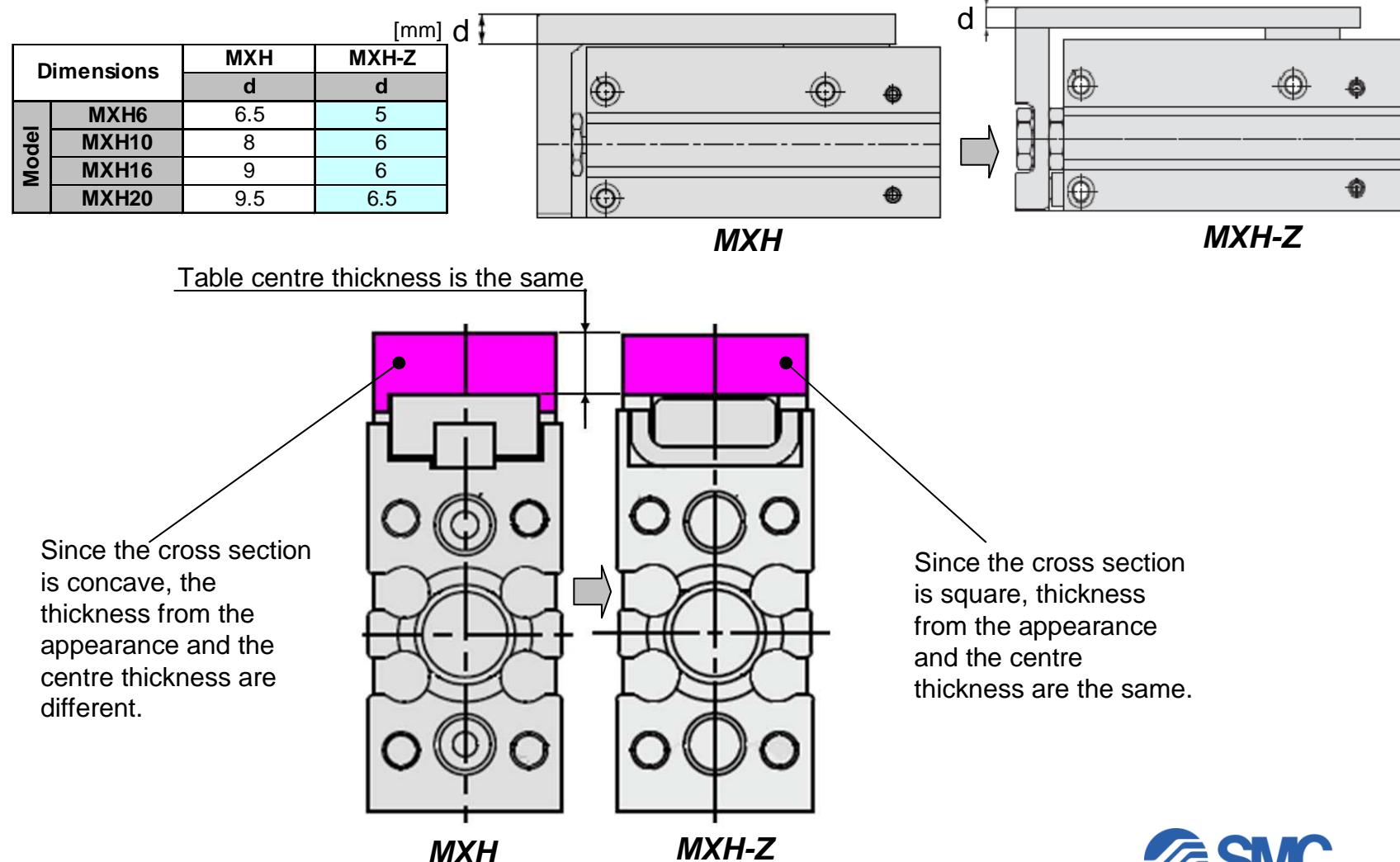
MXH-Z



Technical details

▪ Dimensional changes

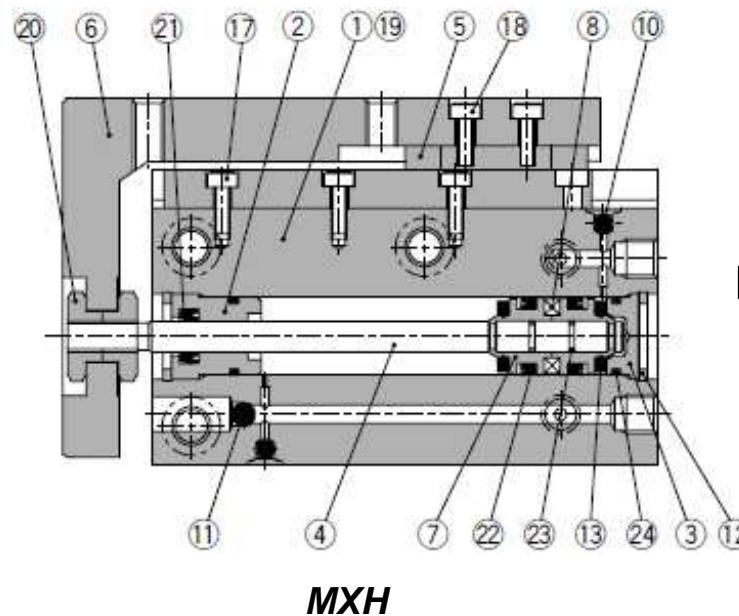
 Differences between MXH and MXH-Z



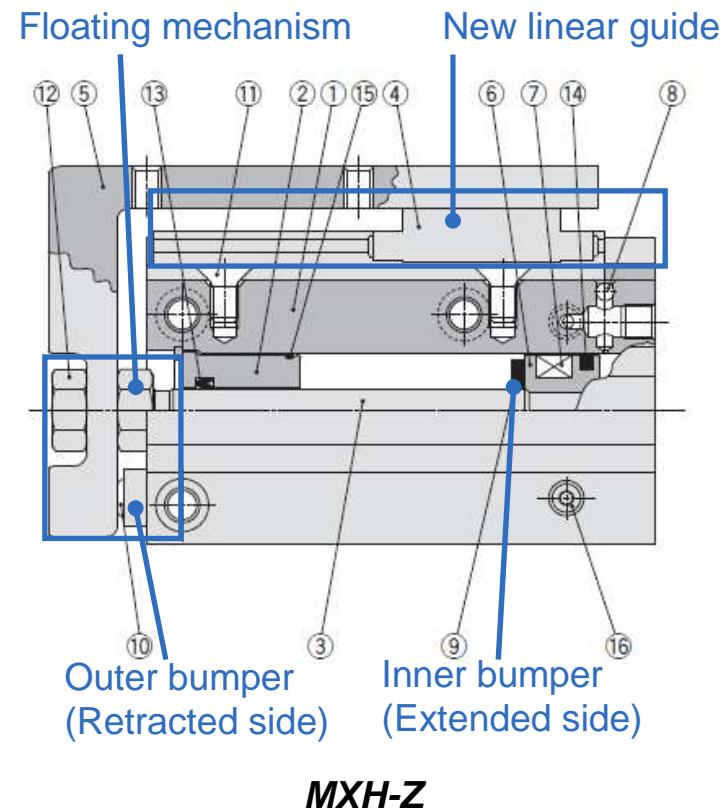
Technical details

- Construction changes

Main differences between MXH and MXH-Z



MXH



MXH-Z

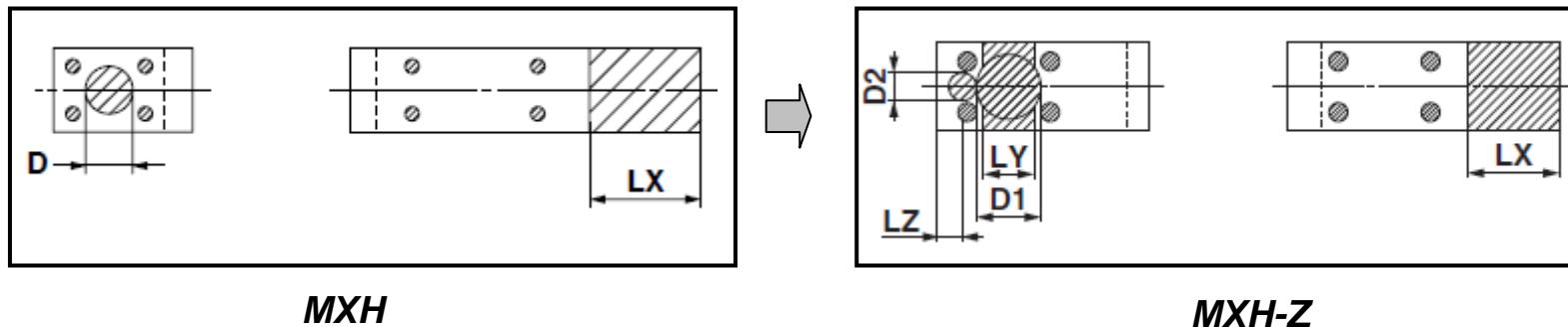
Technical details



Differences between MXH and MXH-Z

- XC79. Additional machining restriction changes

Model	MXH		MXH-Z				
	ϕD	LX	D1	D2	LY	LX	LZ
MXH6	11	27	11	5.8	9	20	5.5
MXH10	15.2	32	14	6	11	22	6.5
MXH16	20	38	18	7.5	16	29	6.5
MXH20	26	43	22	9.7	22	32	7



- Replacement part changes

Replacement plug	MXH	MXH-Z
	CXS10-08-28747A	MXH-P