Toggle Style Air Gripper Series MHT2

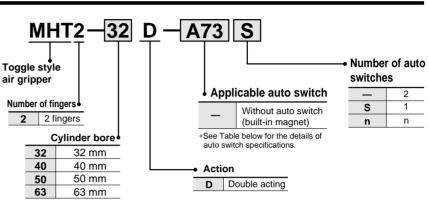
- Ideal for holding heavy work.
- The toggle mechanism holds work even when pressure drops.
- Auto switch is attachable.



Switch Mounting Bracket Parts No.

Bore size (mm)	Bracket No.	Notes	Applicable switch
32, 40 50, 63	BQ-2	 Switch mounting screw (M3x0.5 x102) Switch spacer Switch mounting nut 	Reed switch D-A7, A8 D-A73C, A80C D-A7⊡H, A80H D-A79W Solid state switch D-F7□, J79 D-F7□V D-J79C D-F7□W, J79W D-F7□WV D-F7□WV D-F7BAL D-F7□F

How to Order



Auto Switch Specifications / Refer to p.2.11-1 for further information of auto switch.

_		Electrical	or ligh	Wiring	L	oad vol	age	RainI mounting		Direct mounting			<u> </u>	length (m) [*]		Applicable		MHZ2
Туре	Special function	entry	Indicator ligh	(Output)		AC	DC	Perpendicular	In-line	Perpendicular	In-line	0.5 (—)	3 (L)	0.5 (Z)	None (N)	load		
				3-wire (NPN equi.)	_	5V	_	—	A76H	A96V	A96	•	•	-	_	IC circuit	_	MHZJ2
÷		Grommet	Yes		—	_	200V	A72	A72H	—	_	٠	•	-	-			
Reed switch	—	Grommer				12V	100V	A73	A73H	— A93V	— A93	•	•	•	-	-		MHQ
eed			No	2-wire	24V	5V, 12V	100V or less	A80	A80H	A90V	A90	•	•	-	-	IC circuit	Relay, PLC	MHL2
Å		Connector	Yes	1	24 V	12V		A73C	—	—	—	٠	٠	٠	٠	—	FLC	
			No			5V, 12V	24V or less	A80C	_	-	_	•	•	•	•	IC circuit		
	Diag. indicator (2 color)	Grommet	Yes			-	_	A79W	-	_	_	•	•	-	-	-		MHR
				3-wire (NPN)		5V, 12V 12V		F7NV	F79	F9NV	F9N	•		0	-			
				3-wire		5V, 12V		F7PV	F7P	-	-	÷	•	6	-	IC circuit		MHK
		Grommet		(PNP)					_	F9PV	F9P	•	•	ŏ	-			
	_				1	12V		F7BV	J79	—	-	٠	•	0	—		1	MHS
itch				2-wire				—	—	F9BV	F9B	•	•	0	—			INITIS
SW		Connector						J79C	_	—	_	٠	•	•	•		-	
ate			Yes	3-wire (NPN)	24V		_	F7NWV	_	F9NWV	F9NW	•	•	0	-		Relay, PLC	
dst	Diagnosis indicator				-	5V, 12V			F79W F7PW		_	•	•	0	_	IC circuit		
Solid state switch	(2 color)		t	3-wire (PNP)						F9PWV	F9PW	•	•	6	=			MHC2
•,	(,	Grommet				12V		F7BWV	J79W	F9BWV	F9BW	•	•	Ō	-		1	
	Water tight (2 color)]		2-wire				—	F7BA*	—	F9BA*	—	٠	0	—	_		MHT2
	Diag. output (2 color)			4-wire		5V, 12V	1		— F79F — — ● ●		0	—	IC circuit	uit				
	Latch style with diagnosis output (2 color)			(NPN)		-		—	F7LF	-	—	•	•	0	-	-		MHY2
* Le	ead wire length			···· — (Ex						mple) A8								
	olid state switch	with m	ark						⊷N (Exa	mple) A8	BOCN							MHW2
	-F7⊟WV, Z(5m) 7BA and F9BA i				roof -	auto sv	itch (-)	(5)										
	del/Specif				001	3010 31	non (-7	(0).										MRHQ
	Model				ин	Г2-32	D	мнт	2-40D		/IHT2-	50D		N	/H1	[2-6 3	3D	Auto
Bor	e size (mm)					32		4	40		50					63		switch
Act	tion								Doub	le actir	ng							
Fluid				Air														
Ope	erating press	ure			0.1 to 0.6MPa													
Am	bient and fluid	tempe	erat	ure	5 to 60°C													
Lubrication Non-lube																		

-3° to 27°

1.09 kg

36.0

–2° to 23°

1.93kg

63.0

-3° to 28°

0.80 kg

12.4

Note) At pressure 0.5 MPa

(Effective value) Nm^{Note)}

Finger opening angle (total)

Weight

Holding moment

–2° to 23°

2.8 kg

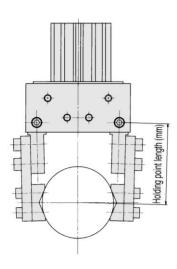
106

MU70

Series MHT2

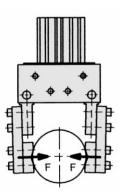
Effective Holding Force

•Work holding point should be within the range indicated in the graph.



Indication of effective holding force

The holding force shown in the tables represents the holding force of one finger when all fingers and attachment are in contact with thework. F = one finger thrust.



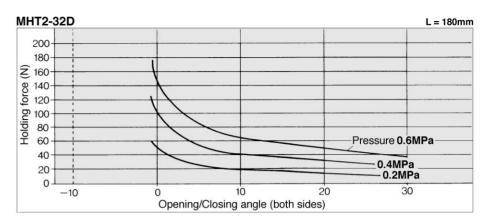
A Precaution

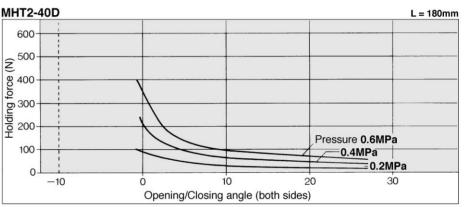
Be sure to read before handling. Refer to p.0-20 and 0-21 for Safety Instructions and common precautions on the product mentiond in this catalog, and refer to p.2.0-3 to 2.0-4 for precautions of every series.

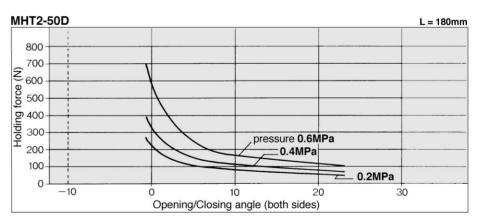
A Warning

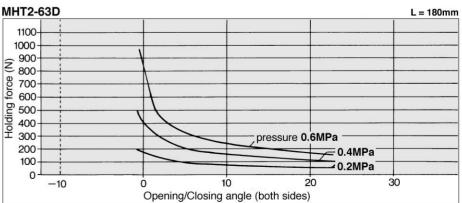
Maintenance

If a workpiece is to be held by using the toggle, make sure to periodically check that the workpiece has not shifted during the acceleration of the movement. If the workpiece is not held in a stable manner, it could shift or drop and create a dangerous situation. If the workpiece is not held in a stable manner, use shims on the attachment to adjust the hold. To verify the gripping condition or to make any adjustments, make sure to do so in an area where the air gripper or the workpiece will not fall.

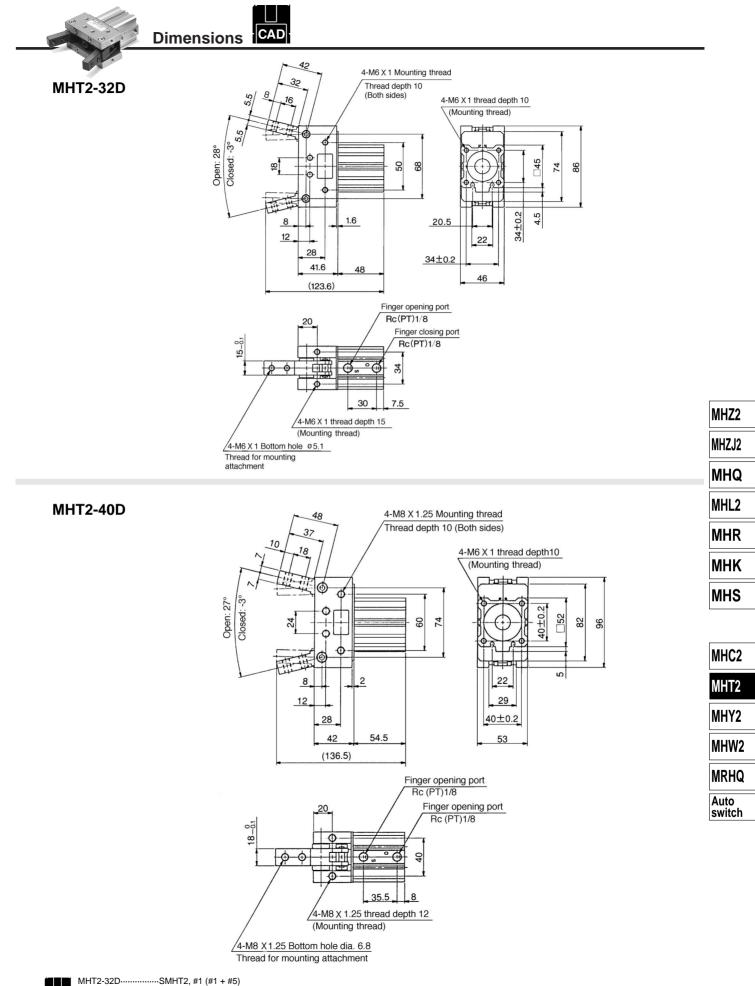




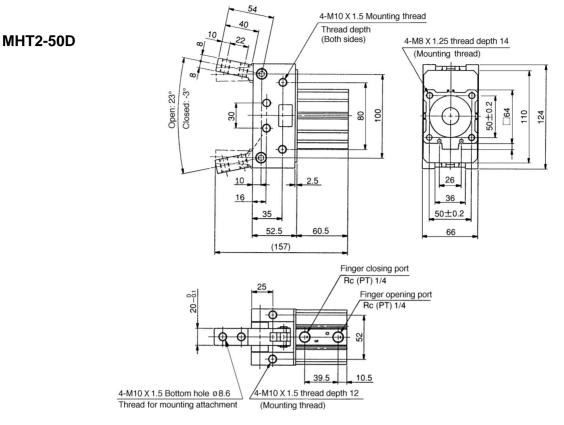




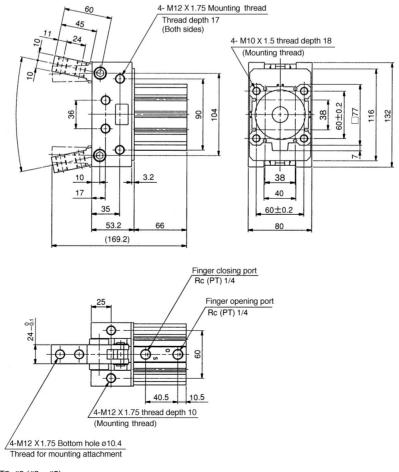
Toggle Style Series MHT2





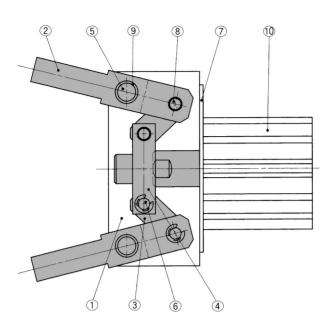


MHT2-63D



MHT2-50D SMHT2, #3 (#3 + #5) CAD. MHT2-63D SMHT2, #4 (#4 + #5)

Construction

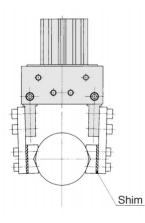


Component Parts

No.	Description	Material	Note
1	Side plate	Aluminium alloy	Anodized
2	Finger	Carbon steel	Black zinc chromated
3	Lever	Carbon steel	Black zinc chromated
4	Joint	Carbon steel	Black zinc chromated
(5)	Shaft	Stainless steel	
6	Joint pin	Stainless steel	
\bigcirc	Cylinder plate	Soft steel	Black zinc chromated
8	Lever pin	Stainless steel	
9	Bearing		Steel lined oil imfilled acetal resin bearing
10	Cylinder		Compact cylinder

Attachment Design

Use shims for fine adjustment of the attachment.



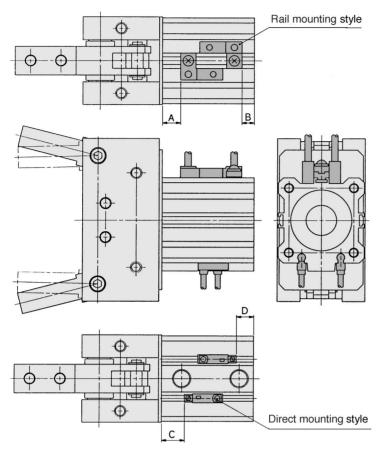
MHZ2
MHZJ2
MHQ
MHL2
MHR
МНК
MHS

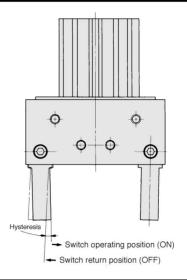
MHC2
MHT2
MHY2
MHW2
MRHQ
Auto switch

Series MHT2

Auto Switch Installation

Auto Switch Hysteresis





Model	Hysteresis (Max.) angle
MHT2-32D	3
MHT2-40D	3
MHT2-50D	3
MHT2-63D	3

D-A7, D-A8: Rail mounting type D-F⊡9V: Direct mounting type are shown above.

					Rail m	Direct mounting										
Bore size (mm)	D-A7□/A80		D-A7□H/A80H D-A73C/A80C D-F7□/J79 D-F7□V/J79C		D-A79W		D-F7BA D-F7□W D-F7□F D-J79W		D-F7□WV		D-A9⊡ D-A9⊡V		D-F9□ D-F9□V		D-F9BA D-F9□W D-F9□WV	
	Α	В	A	В	A	В	A	В	Α	В	С	D	С	D	С	D
32	9	6	9.5	6.5	6.5	3.5	13.5	10.5	10	7	8	5	12	9	11	8
40	13	8.5	13.5	9	10.5	6	17.5	13	14	9.5	12	7.5	16	11.5	15	10.5
50	11	11.5	11.5	12	8.5	9	15.5	16	12	12.5	10	10.5	14	14.5	13	13.5
63	13.5	14.5	14	15	11	12	18	19	14.5	15.5	12.5	13.5	16.5	17.5	15.5	16.5