

Low Profile Air Gripper

Series **MHF2**

Size: 8, 12, 16, 20

Features

- ➔ Height is approximately the 1/3 size of an equivalent Series MHZ2.
- ➔ Different strokes available.
- ➔ Autoswitches can be added.

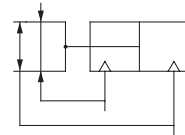
Specifications

Fluid		Air
Operating pressure		$\varnothing 8$: 0.15 to 0.7 MPa $\varnothing 12$ to 20: 0.1 to 0.7 MPa
Ambient and fluid temperature		-10 to 60°C (with no condensation)
Repeatability		$\pm 0.05\text{mm}$ ^{Note 1)}
Maximum operating frequency	Short stroke	120 c.p.m.
	Medium stroke	120 c.p.m.
	Long stroke	60 c.p.m.
Lubrication		Not required
Action		Double acting
Auto switch (Option) ^{Note 2)}		Solid state switch (3-wire, 2-wire)

Note 1) This is the value when no offset load is applied to the finger.

When an offset load is applied to the finger, the maximum value is $\pm 0.15\text{ mm}$ due to the influence of backlash of the rack and pinion.

JIS Symbol
Double acting



Model

Action	Model	Cylinder bore (mm)	Gripping force ^{Note 1)}	Opening /closing stroke (Both sides) mm	Weight ^{Note 2)} g	Unobstructed capacity (cm ³)	
			Effective gripping force per finger N			Finger open side	Finger close side
Double acting	MHF2-8D	8	19	8	65	0.7	0.6
	MHF2-8D1			16	85	1.1	1.0
	MHF2-8D2			32	120	2.0	1.9
	MHF2-12D	12	48	12	155	1.9	1.6
	MHF2-12D1			24	190	3.3	3.0
	MHF2-12D2			48	275	6.1	5.8
	MHF2-16D	16	90	16	350	4.9	4.1
	MHF2-16D1			32	445	8.2	7.4
	MHF2-16D2			64	650	14.9	14.0
	MHF2-20D	20	141	20	645	8.7	7.3
	MHF2-20D1			40	850	15.1	13.7
	MHF2-20D2			80	1,225	28.0	26.6

Note 1) At the pressure of 0.5 MPa, when gripping point L is 20 mm.

Note 2) Excluding the auto switch weight

How to Order

MHF 2 - 12 D

Number of fingers
2 2 finger

Bore size (mm)

8	8
12	12
16	16
20	20

Stroke

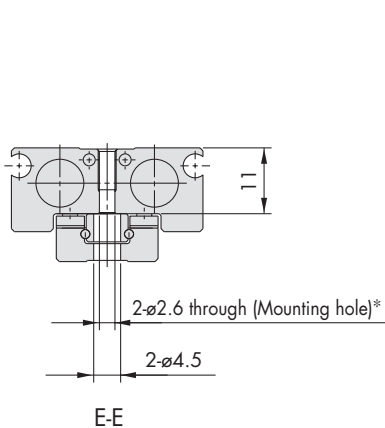
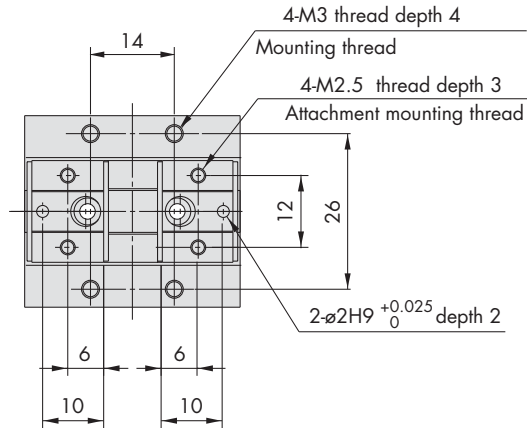
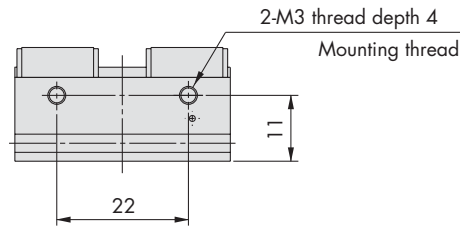
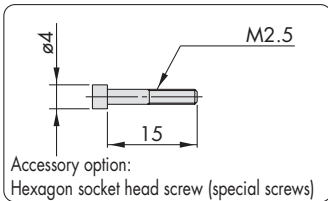
Nil	Short stroke
1	Medium stroke
2	Long stroke

Action

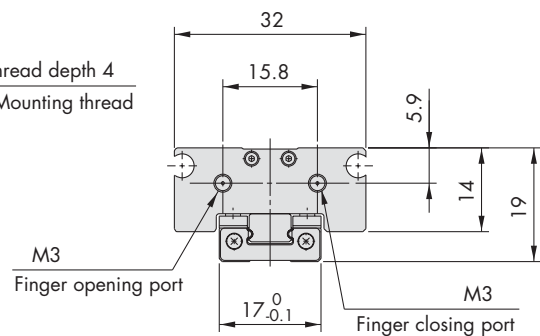
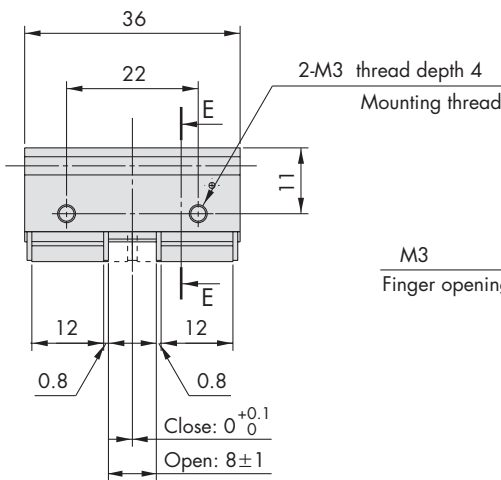
D Double acting

➔ Auto Switch Specifications
Refer to switch section.

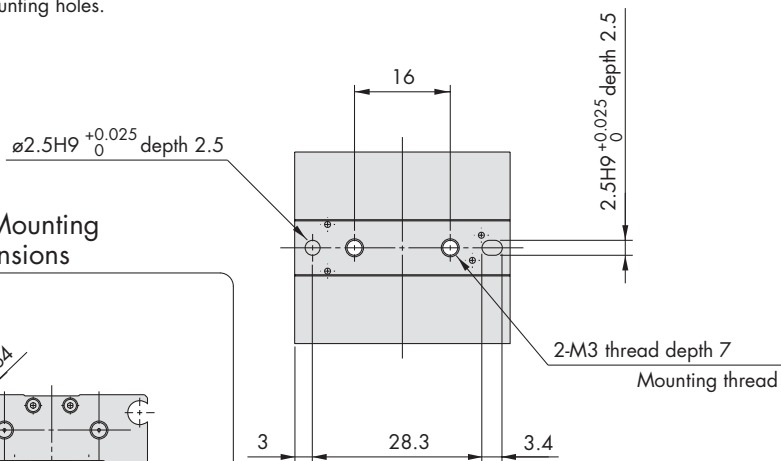
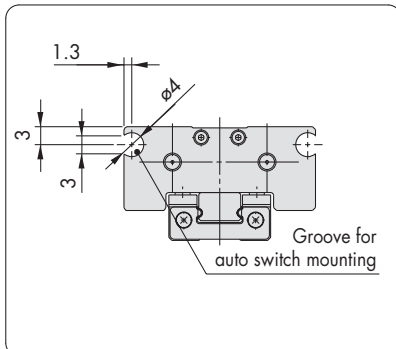
Dimensions: MHF2-8D



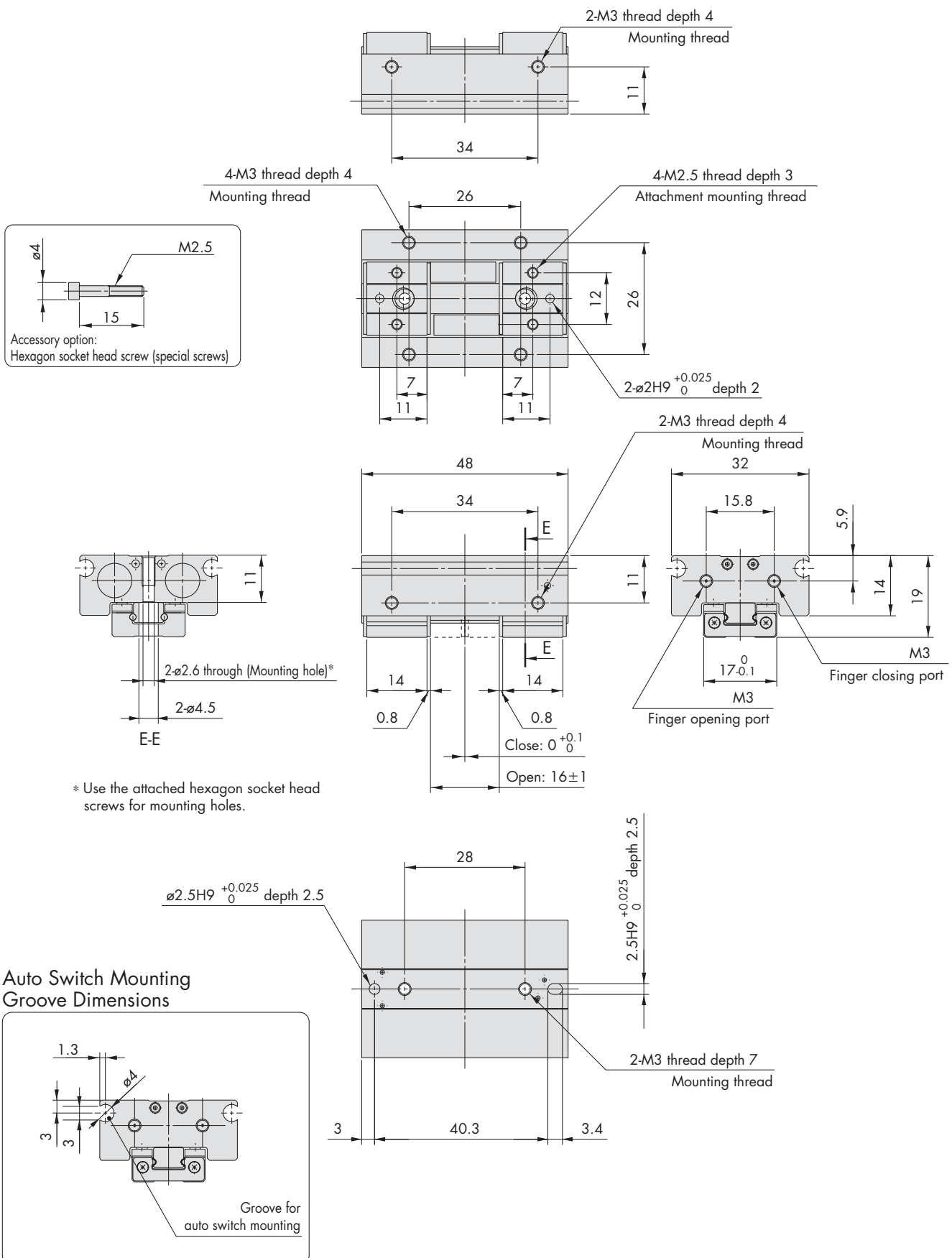
* Use the attached hexagon socket head screws for mounting holes.



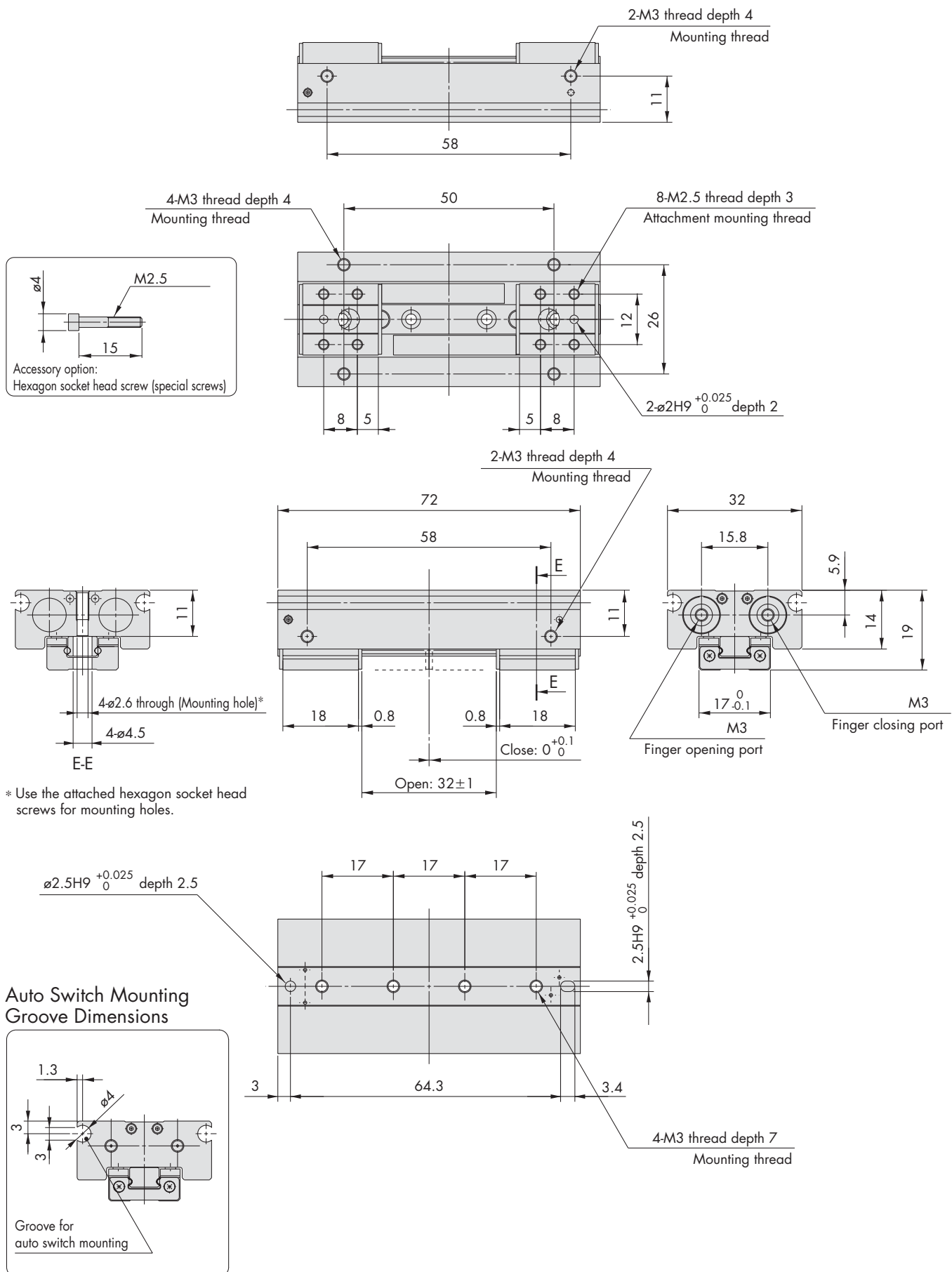
Auto Switch Mounting
Groove Dimensions



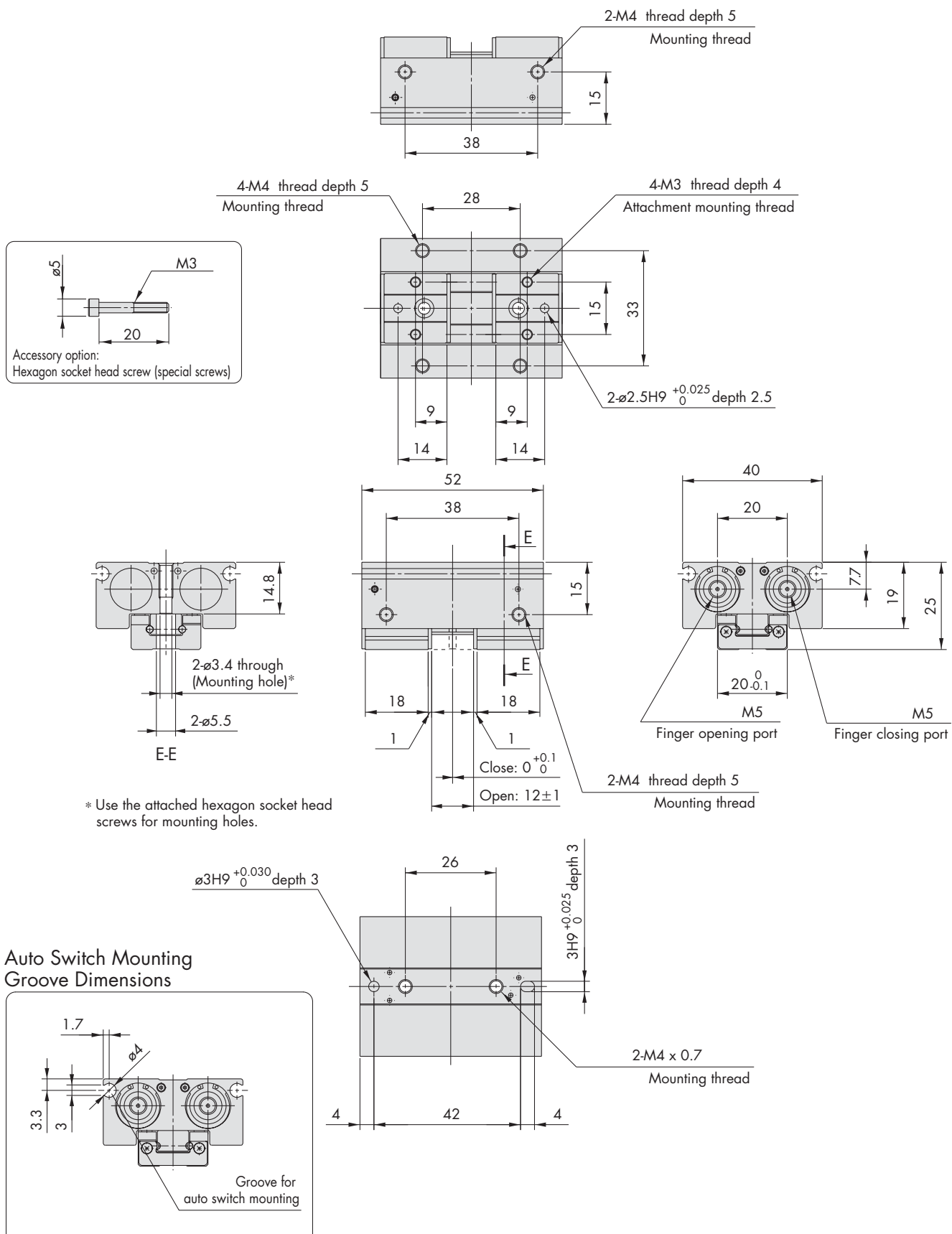
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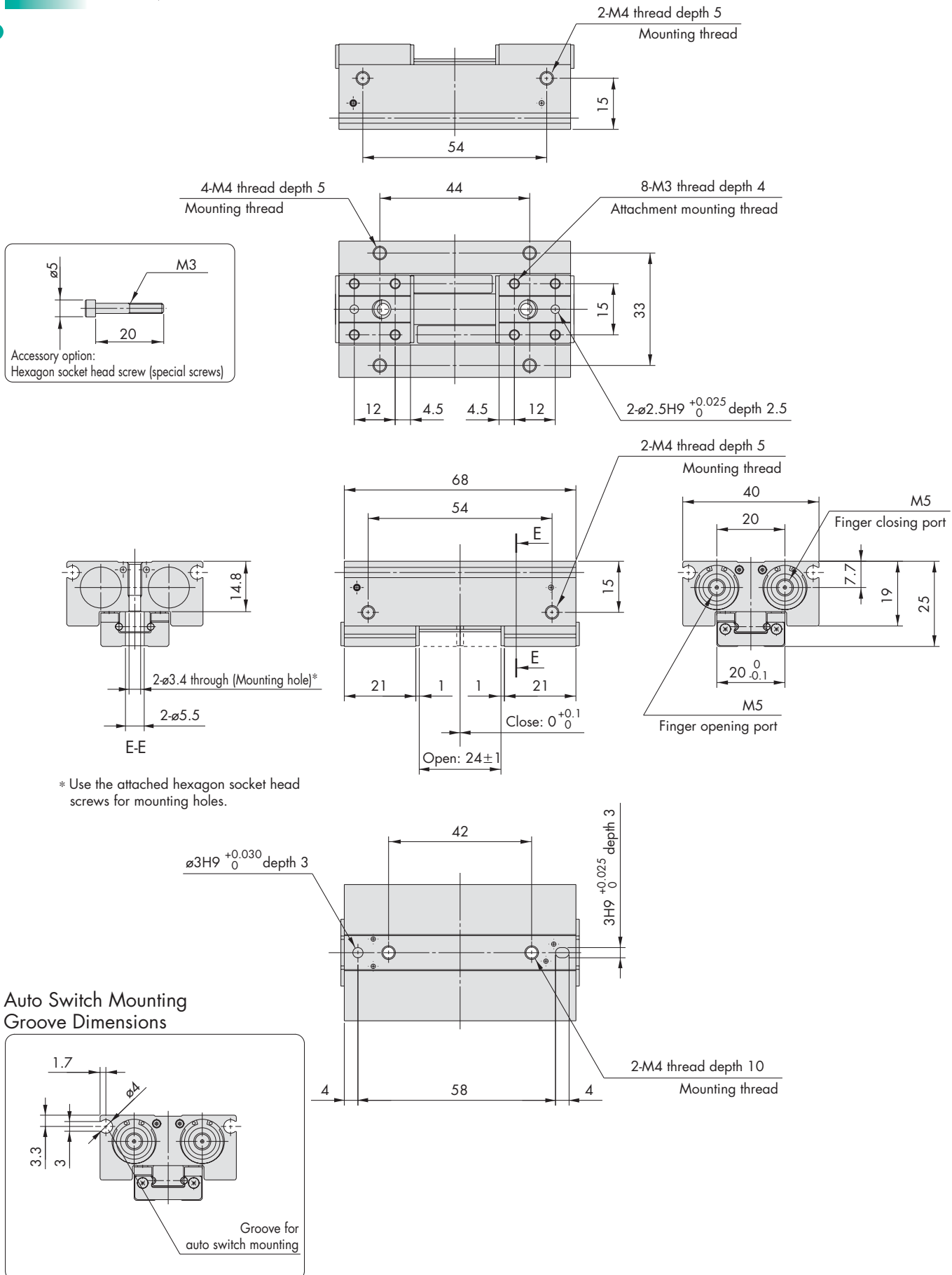
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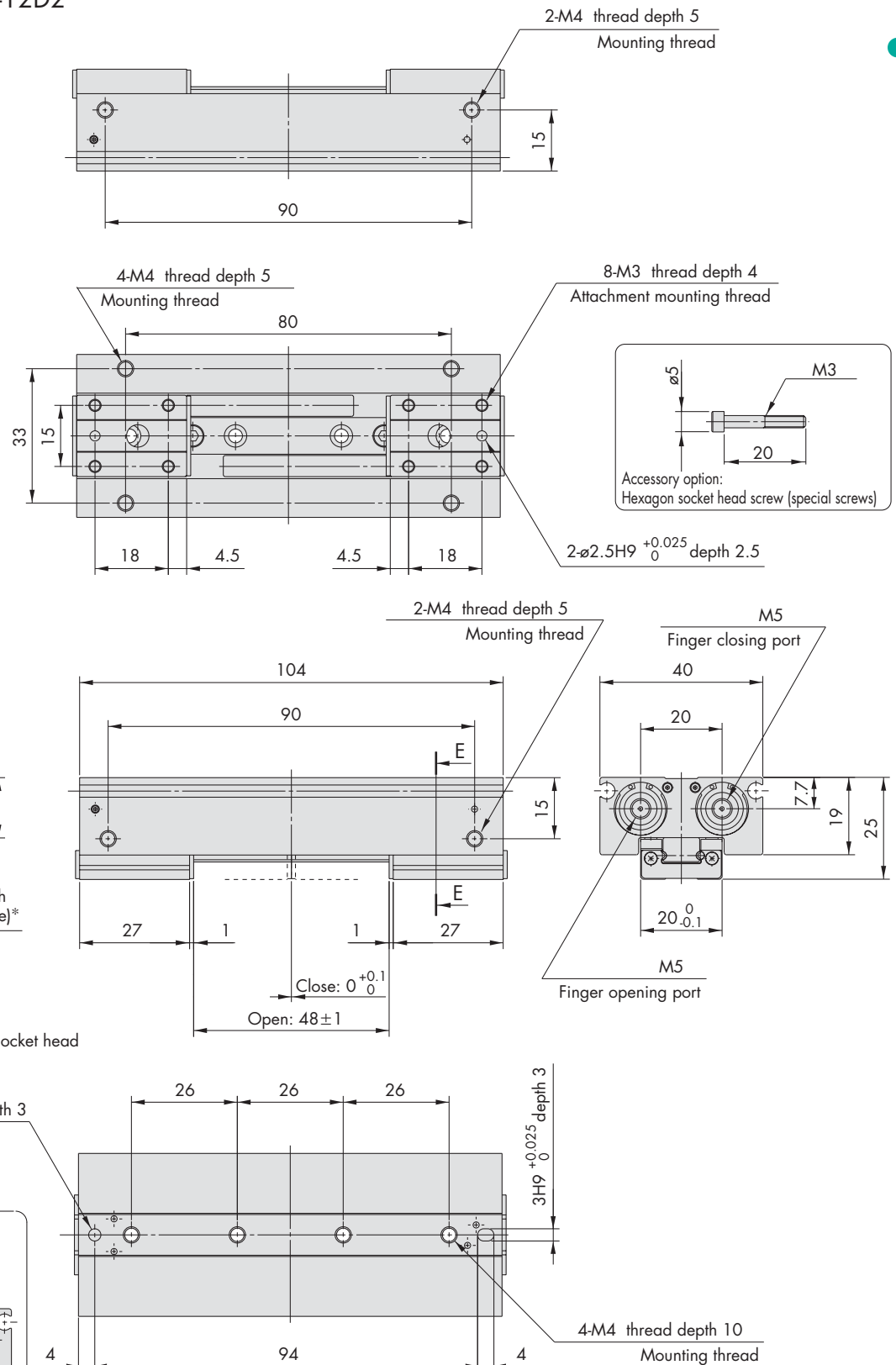
Dimensions: MHF2-12D



Dimensions: MHF2-12D1

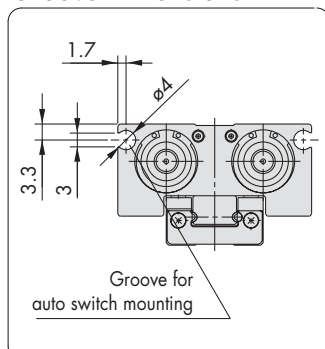


Dimensions: MHF2-12D2

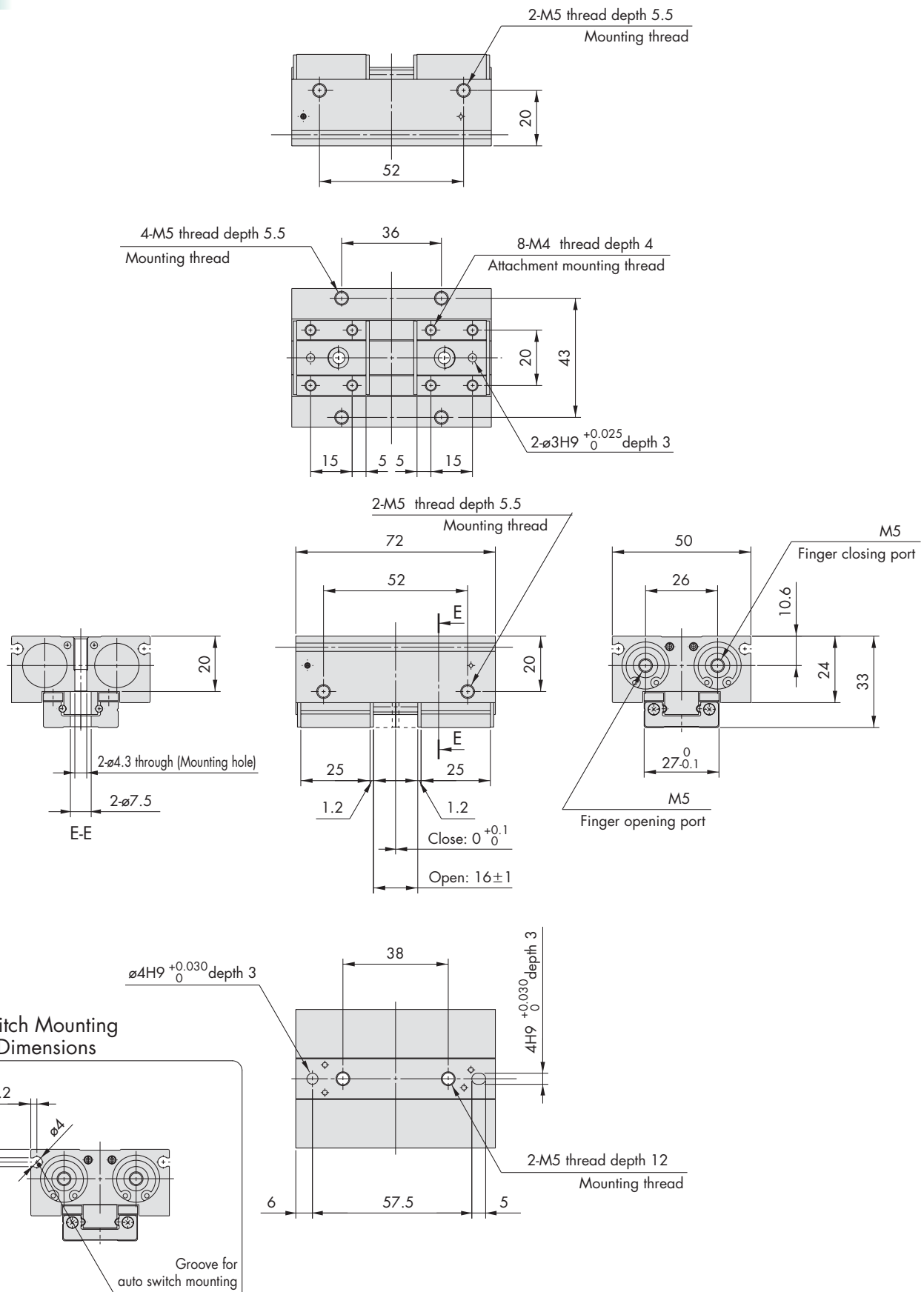


* Use the attached hexagon socket head screws for mounting holes.

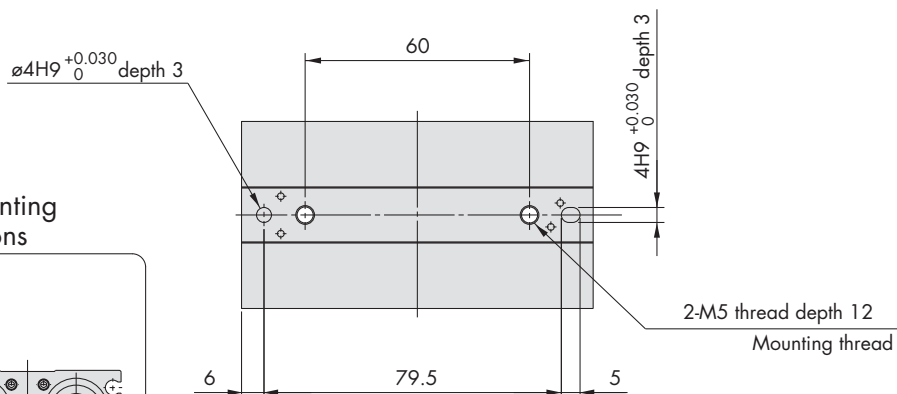
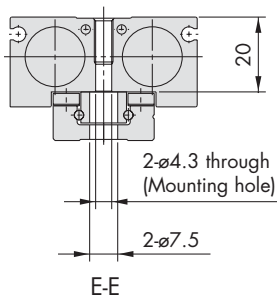
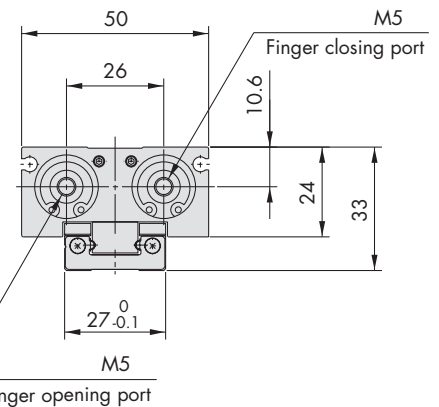
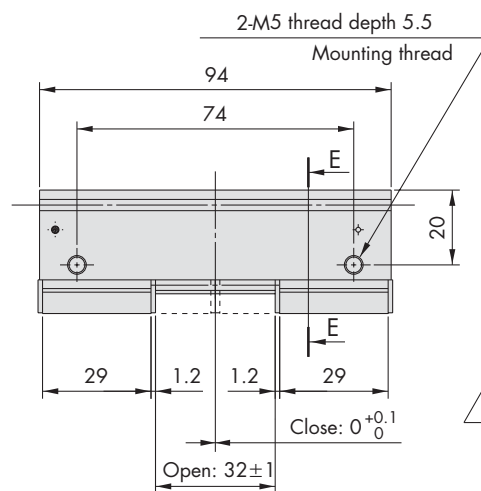
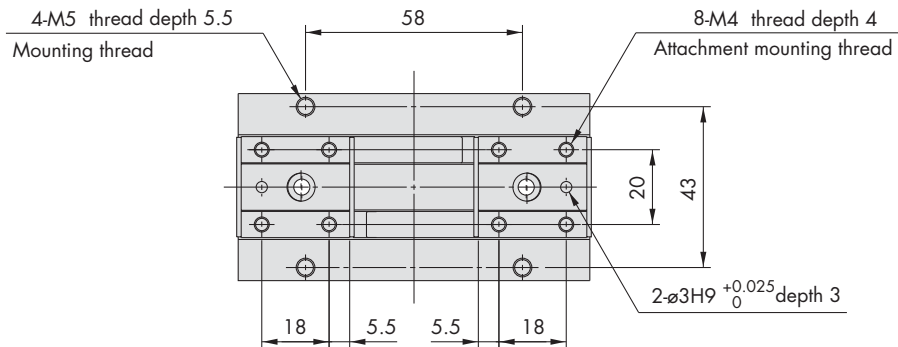
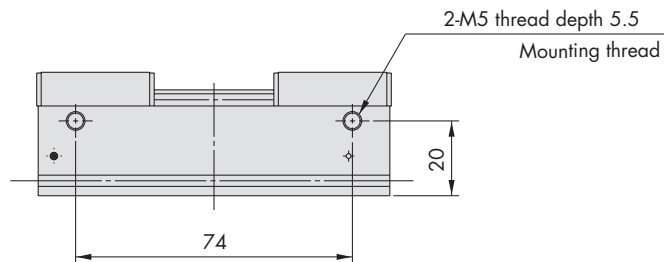
Auto Switch Mounting Groove Dimensions



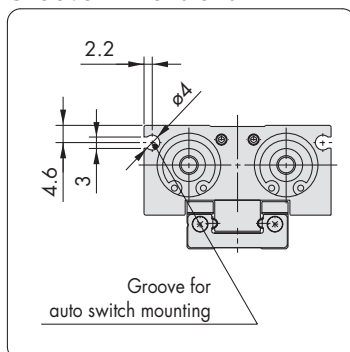
Dimensions: MHF2-16D



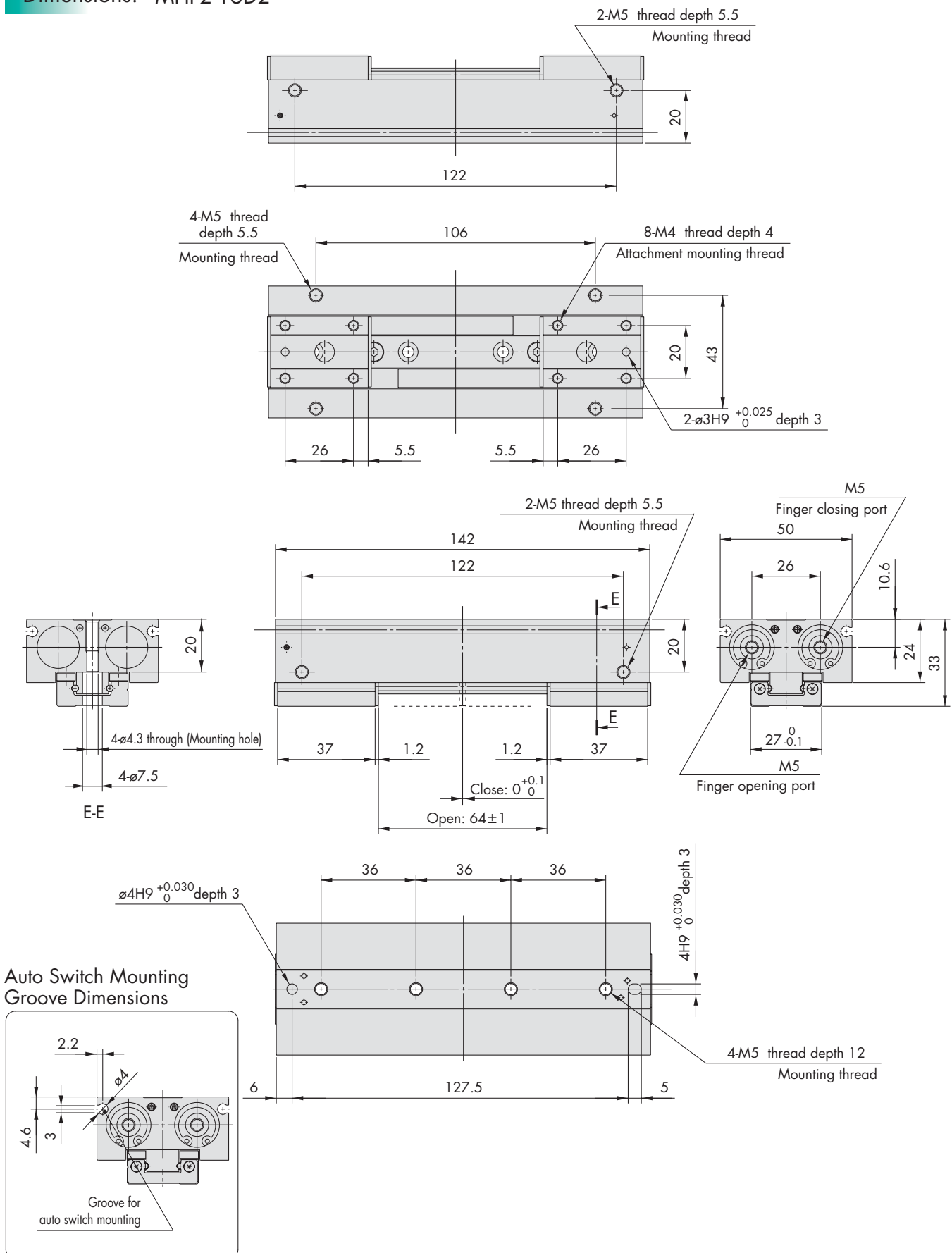
Dimensions: MHF2-16D1



Auto Switch Mounting
Groove Dimensions



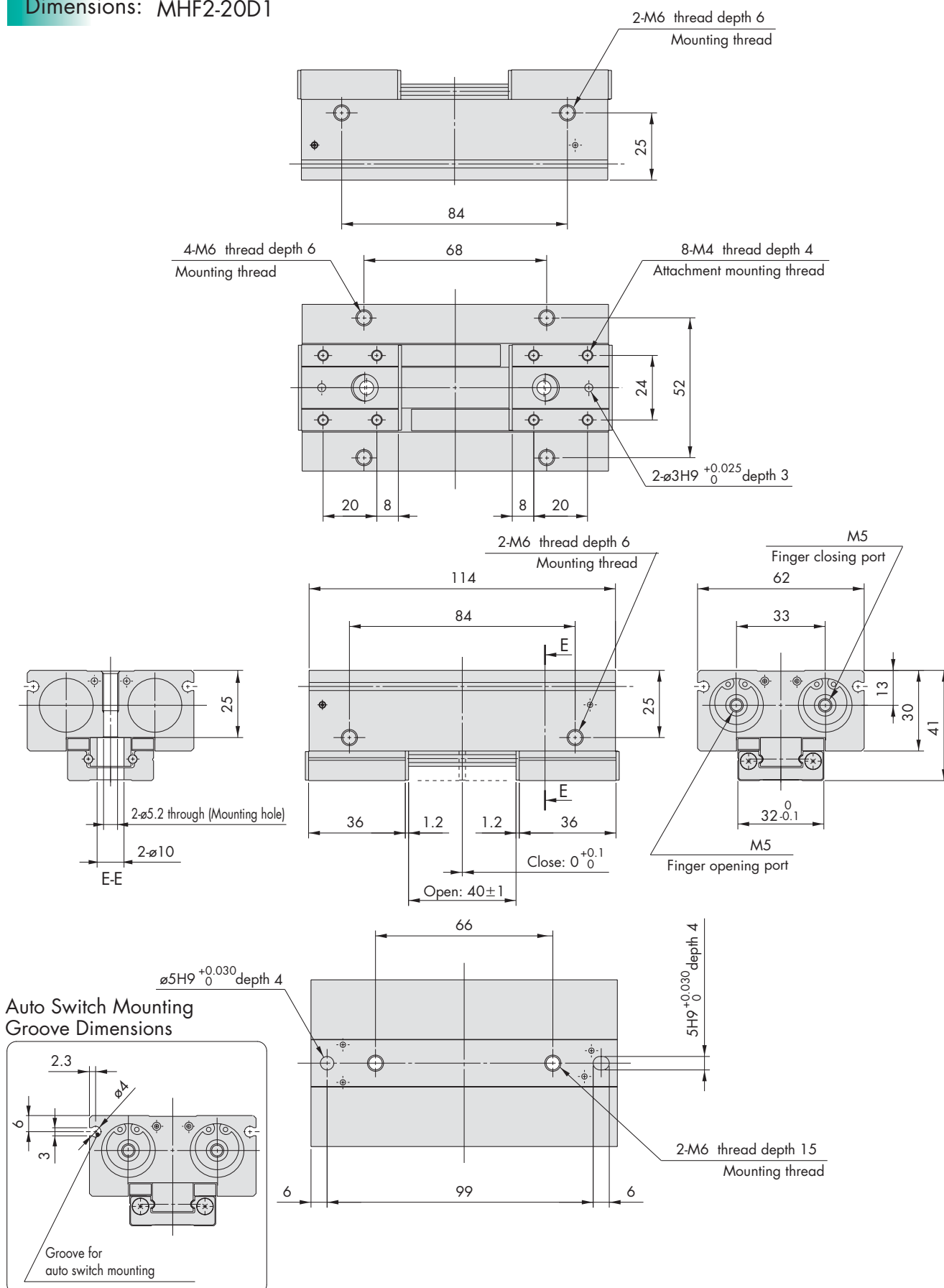
Dimensions: MHF2-16D2



Grippers



Dimensions: MHF2-20D1



Grippers

