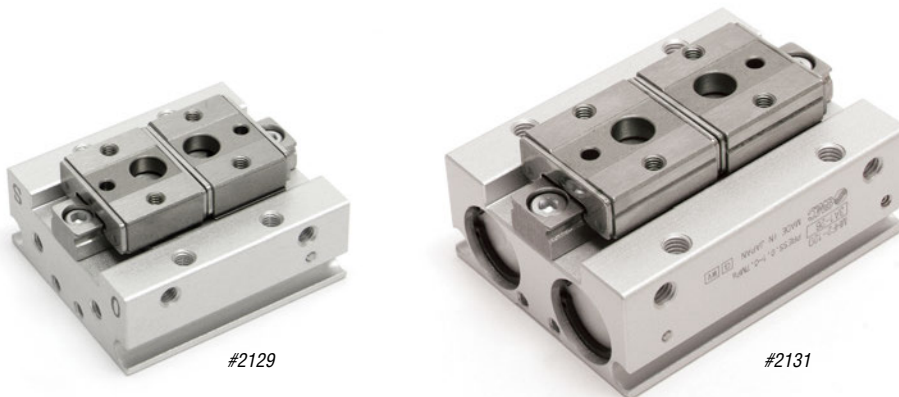


Low Profile Parallel Gripper – MHF2

- Double acting.
- Low profile gripper with space-saving design.
- Height is approximately 1/3rd the size of the MHZ2 / GS gripper.
- Double piston construction achieves strong gripping force.
- Many options for fastening and feeding.
- Optional sensors available.
- Additional MHF2 grippers with 16mm & 20mm bore also available.

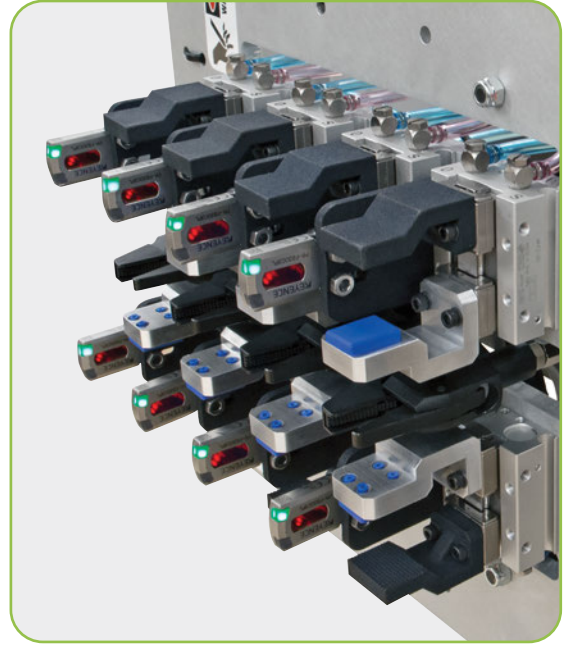
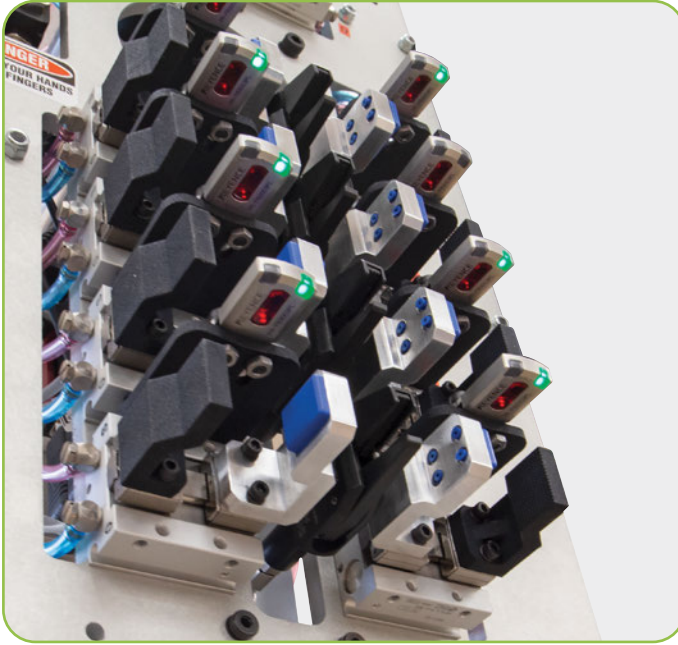


Quick#	2129	2130	2131	2132
Part#	MHF2-8D	MHF2-8D1	MHF2-12D	MHF2-12D1
Price	\$265.00	\$276.00	\$303.00	\$321.00
Medium	Filtered, lubricated / non-lubricated compressed air			
Pressure range	21–101.5 psi		14–101.5 psi	
Total gripping force at 87psi	4.2 lbf		10.7 lbf	
Total stroke	8mm	16mm	12mm	24mm
Cylinder bore	8mm	8mm	12mm	12mm
Mid-stroke detection capability	Yes with SMC D-M9... sensors			
Weight	65g	85g	155g	190g

Optional Sensors for MHF2 Grippers

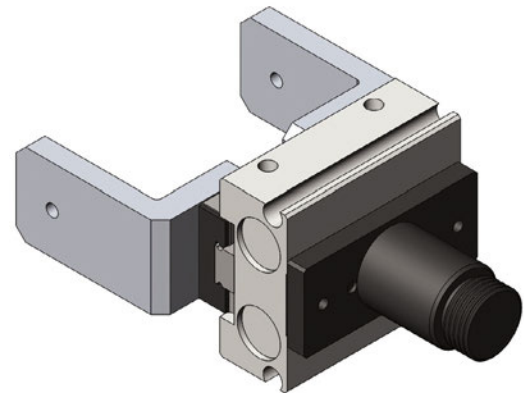
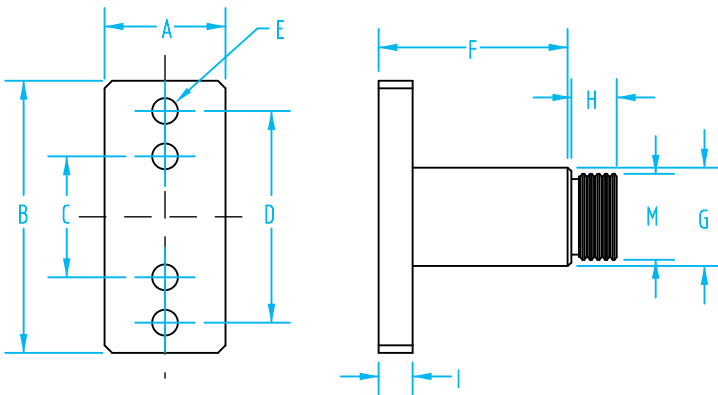
Quick#	Part#	Price	Description
5430	D-M9PL	\$33.70	PNP, 3-wire Straight wit lead, 3m long
2412	D-M9NL	\$33.70	NPN, 3-wire Straight with lead, 3m long
5497	D-M9P SACP	\$42.06	PNP, 3-wire Straight with M8 connector, 0.5m long
5498	D-M9N SACP	\$42.06	NPN, 3-wire Straight with M8 connector, 0.5m long

Low Profile Parallel Gripper – MHF2



Custom machined or 3D printed gripper fingers from EMI are ideal for use on EOAT in plastics as well as on collaborative robot grippers. We've been designing 3D printed gripper fingers since 2013. Take advantage of EMI's experience and talk with an EMI engineer about custom designed gripper fingers for your application.

Direct mount these low profile grippers for a plate-based EOAT. Brackets are also available with Ø14 clampable post and M12x1 threads for extensions.



Mounting Brackets for MHF2 Grippers

Quick#	Part#	Price	Description
2155	GSG-LPG8-MB	\$36.43	For 2129, 2130
2156	GSG-LPG12-MB	\$36.90	For 2131, 2132

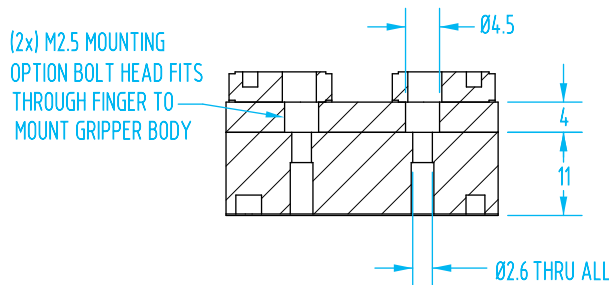
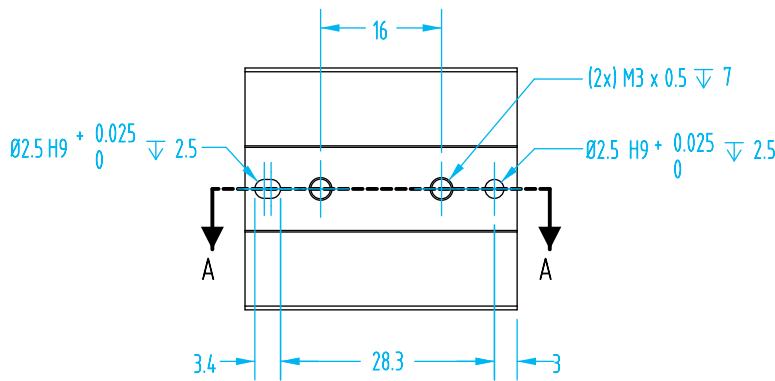
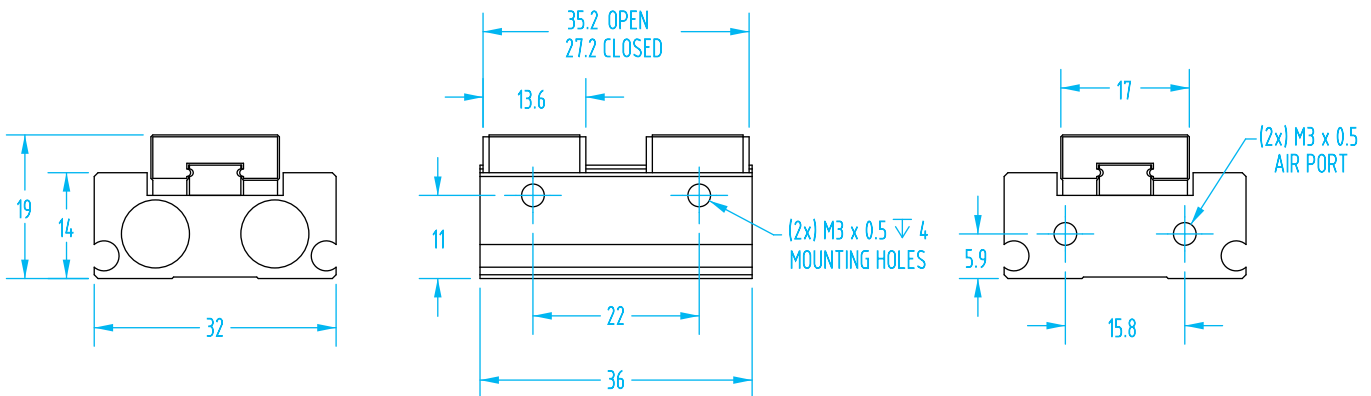
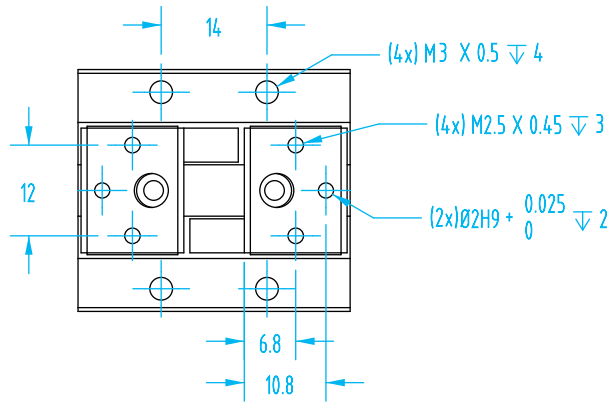
**Note: mounting hardware included*

	2155	2156
For:	2129, 2130	2131, 2132
A	16	16
B	36	50
C	16	26
D	28	42
E	Ø3.4 Thru	Ø4.5 Thru
F	25	25
G	14	14
H	6	6
J	4.5	4.5
M	M12x1	M12x1

Low Profile Parallel Gripper – MHF2

(Dimensioned drawing shown full scale)

**MHF2-8D
#2129**

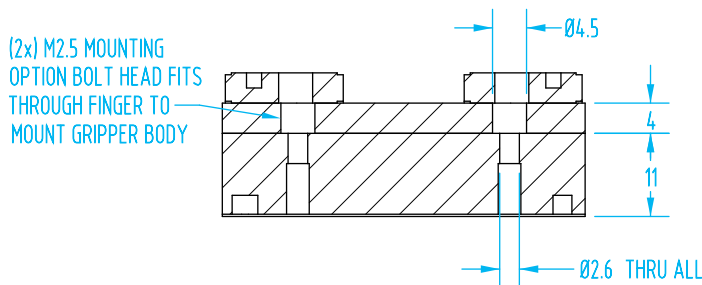
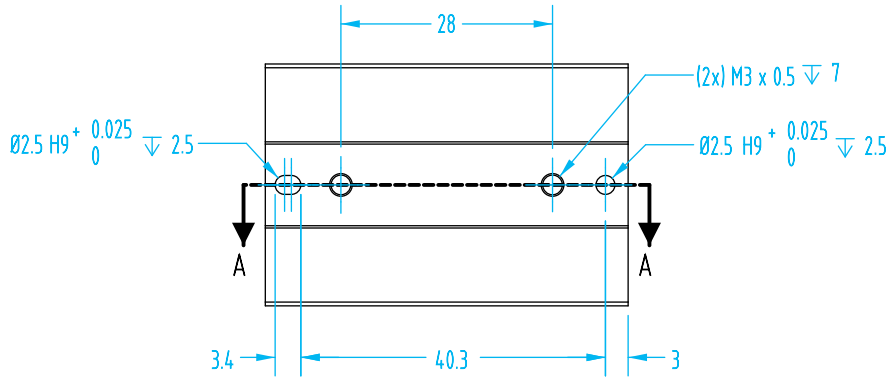
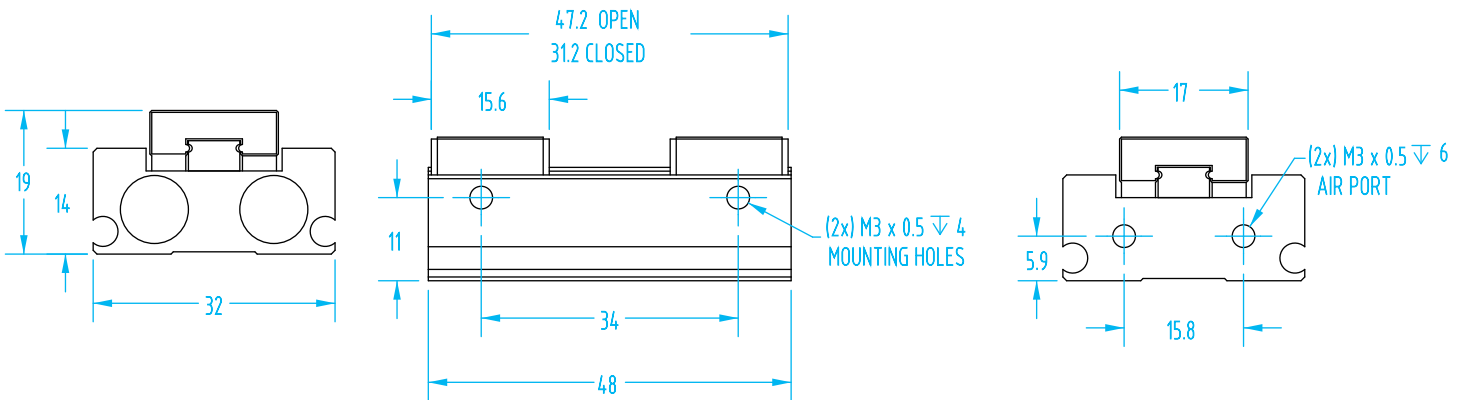
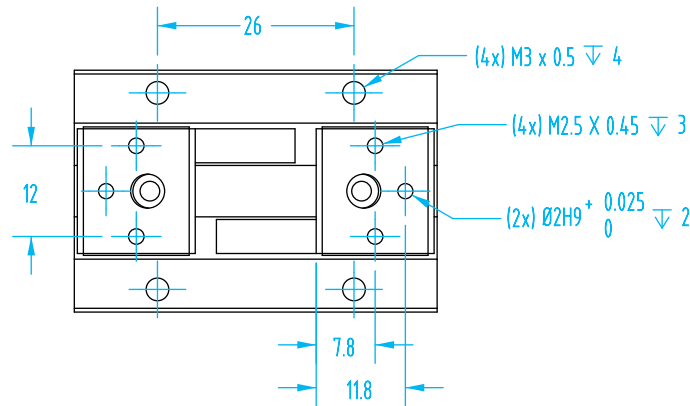


SECTION A-A

Low Profile Parallel Gripper – MHF2

(Dimensioned drawing shown full scale)

**MHF2-8D1
#2130**

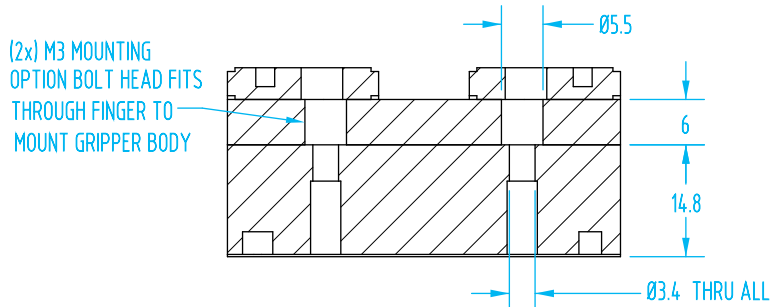
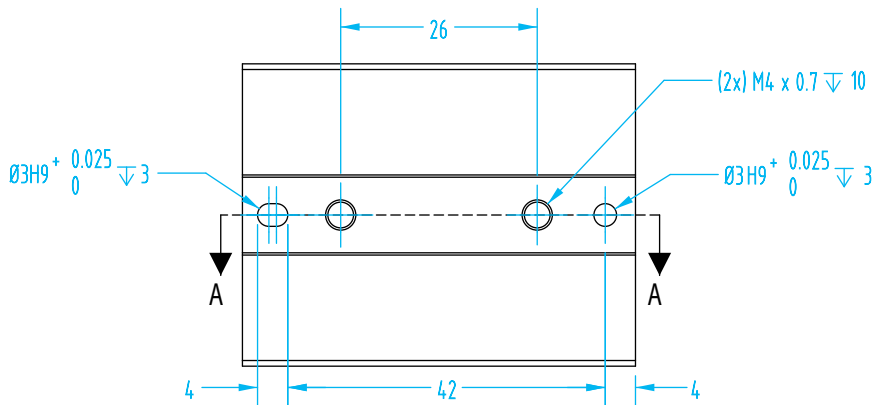
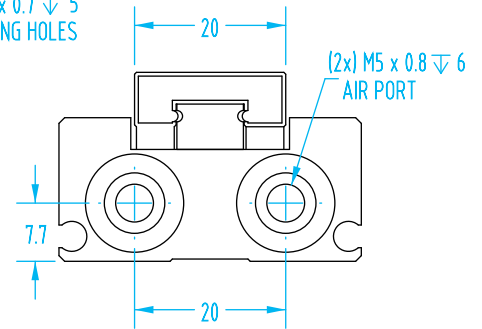
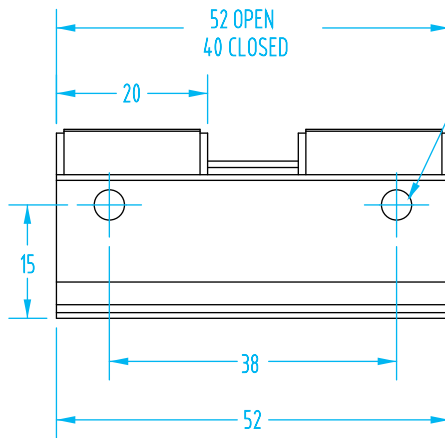
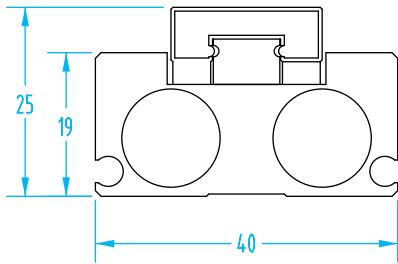
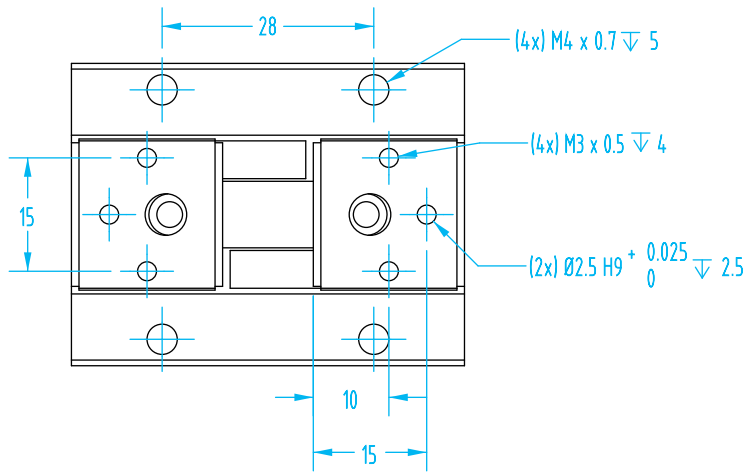


SECTION A-A

Low Profile Parallel Gripper – MHF2

(Dimensioned drawing shown full scale)

MHF2-12D
#2131

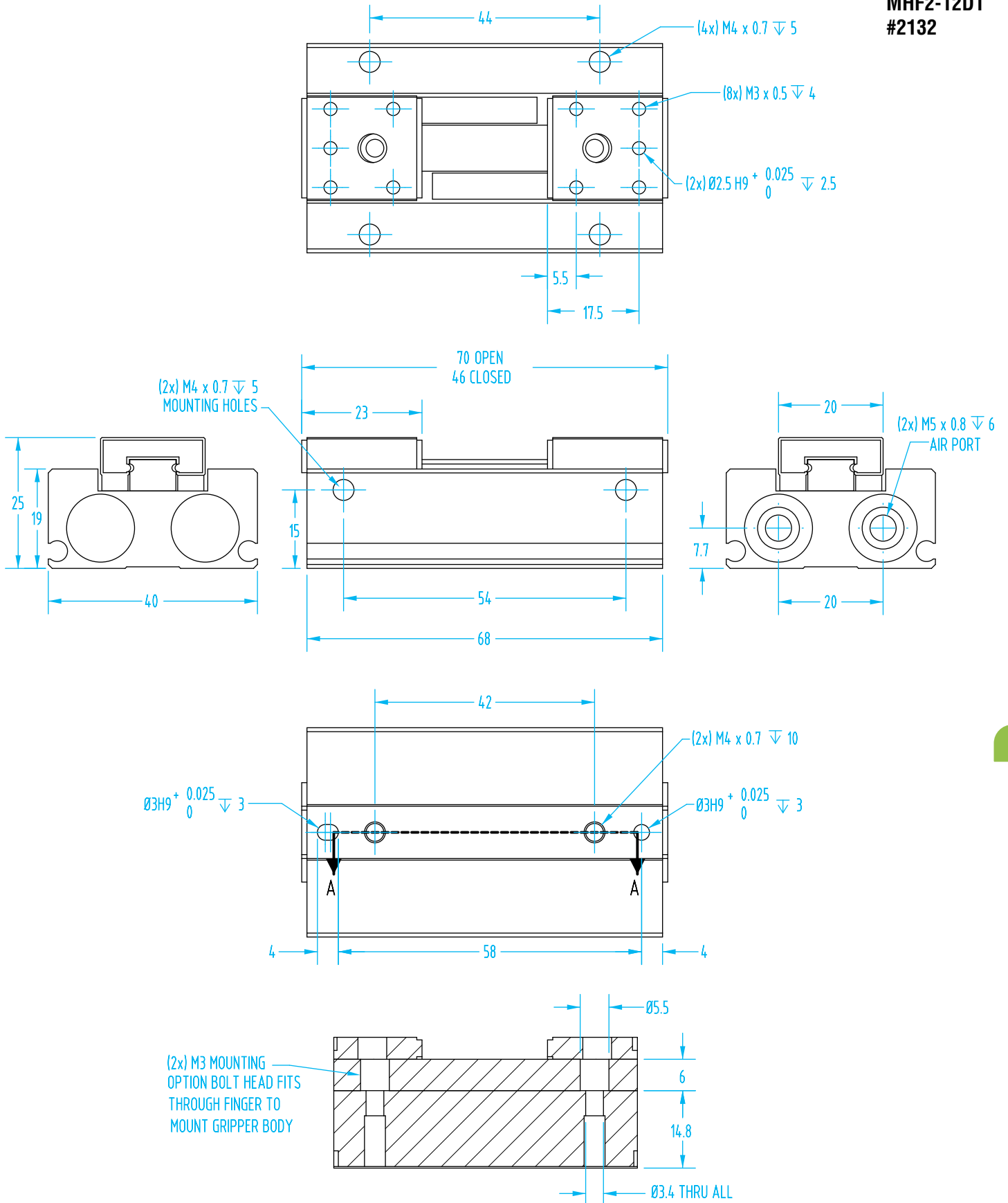


SECTION A-A

Low Profile Parallel Gripper – MHF2

(Dimensioned drawing shown full scale)

MHF2-12D1
#2132

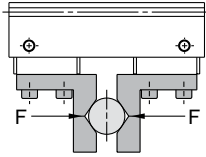


SECTION A-A

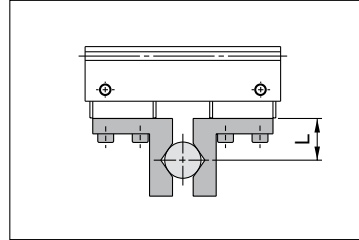
Low Profile Parallel Gripper – MHF2

Gripping force

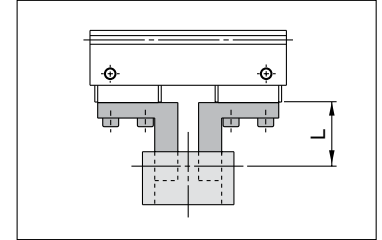
The effective gripping force shown in the graphs below is expressed as F, which is the thrust of one finger when both fingers are in full contact with the workpiece as shown in the figure.



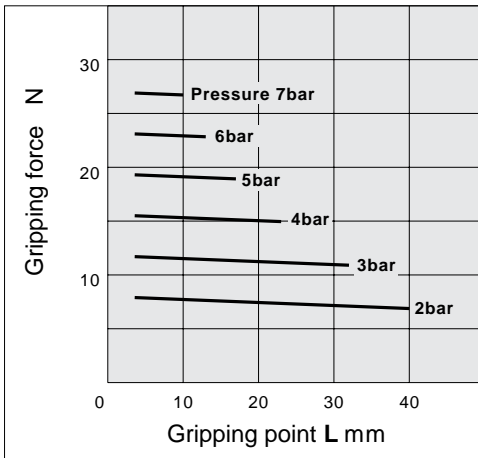
External Gripping



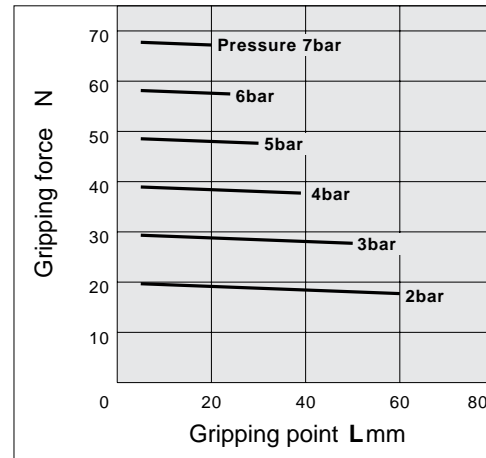
Internal Gripping



MHF2-8D



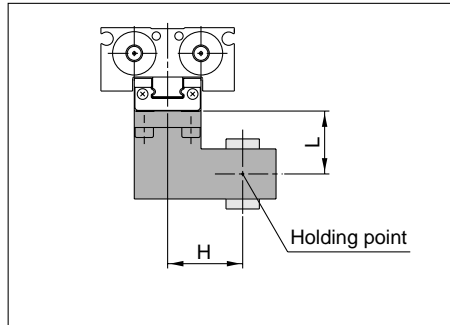
MHF2-12D



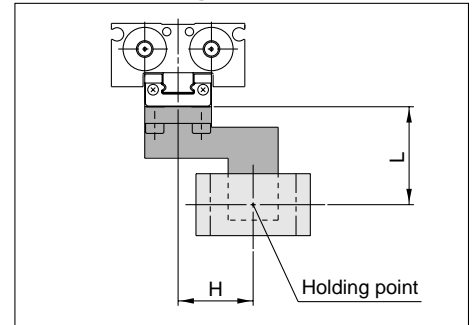
The gripper should be operated so that the amount of overhang "H" will stay within the range given in the graphs.

If the workpiece gripping point goes beyond the range limits, this will have an adverse effect on the life of the gripper.

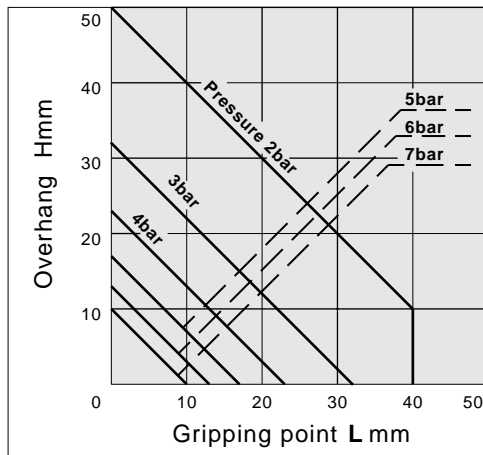
External Gripping



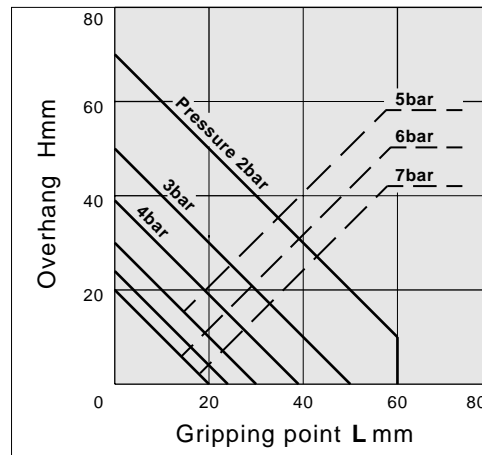
Internal Gripping



MHF2-8D



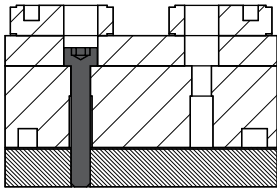
MHF2-12D



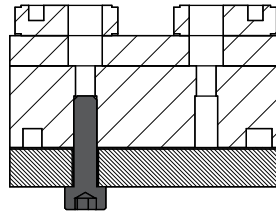
Low Profile Parallel Gripper – MHF2

**MHF2-8D
#2129**

M2.5 X 0.45 THROUGH
GRIPPER MOUNTING OPTION

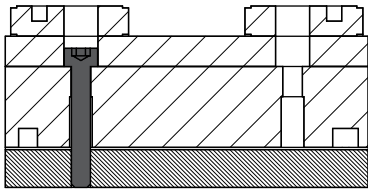


M3 X 0.5 BEHIND
GRIPPER MOUNTING OPTION

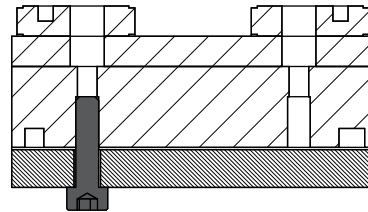


**MHF2-8D1
#2130**

M2.5 X 0.45 THROUGH
GRIPPER MOUNTING OPTION

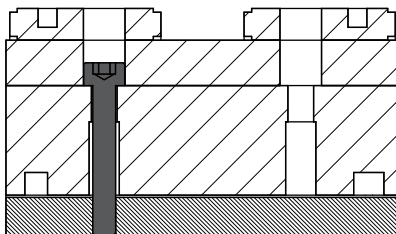


M3 X 0.5 BEHIND
GRIPPER MOUNTING OPTION

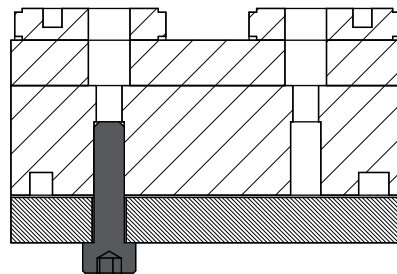


**MHF2-12D
#2131**

M3 X 0.5 THROUGH
GRIPPER MOUNTING OPTION

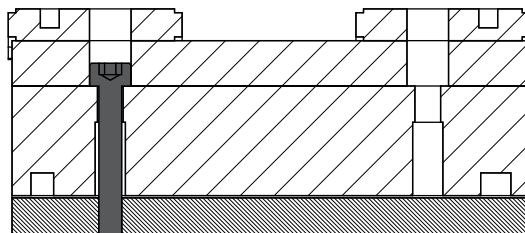


M4 X 0.7 BEHIND
GRIPPER MOUNTING OPTION



**MHF2-12D1
#2132**

M3 X 0.5 THROUGH
GRIPPER MOUNTING OPTION



M4 X 0.7 BEHIND
GRIPPER MOUNTING OPTION

