

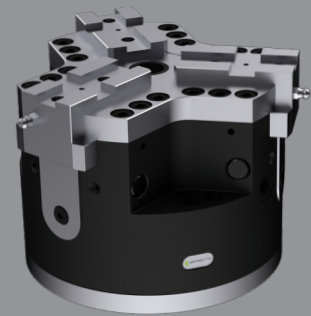
Self-centering vise

M 3-Jaws

M is a hydraulically or pneumatically actuated 3-jaw self-centering vise with high flexibility, accuracy and long life.

Advantages

- Lever mechanism allows extended clamping range
- High force drive for secure clamping
- Optimum jaw guides (hardened, sturdy, low-backlash) allow high clamping forces and a long service life
- Lean outer contour for optimal accessibility of the machine spindle to the workpiece
- Optimized lubrication system for consistently high clamping forces and long life
- Base jaws with grooves for tongues
- All functional parts are hardened and ground to ensure a high repeatability



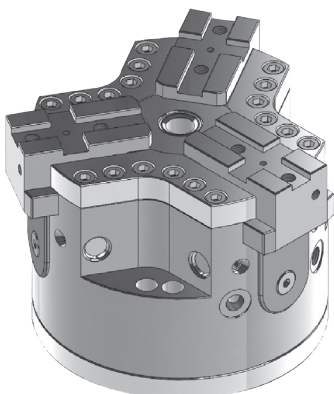
SPECIFICATIONS

Model	Stroke per jaw	Closing force per jaw	Total closing force	Pressure	Repeatability	Fluid consumption double stroke	Weight
		@ max pressure	@ max pressure				
M 113	6 mm	4153 N	12459 N	6-30 bar	±0.01 mm	109 cm ³	5.5 kg
	0.24 in	933.57 lb	2801.03 lb	87-435 psi	±0.0004 in	6.65 in ³	12.13 lb
M 143	8 mm	6419 N	19257 N	6-30 bar	±0.01 mm	225 cm ³	10.2 kg
	0.31 in	1443.01 lb	4329.36 lb	87-435 psi	±0.0004 in	13.73 in ³	22.49 lb
M 173	9 mm	9980 N	29940 N	6-30 bar	±0.01 mm	393 cm ³	20 kg
	0.35 in	2243.65 lb	6731.11 lb	87-435 psi	±0.0004 in	23.98 in ³	44.09 lb

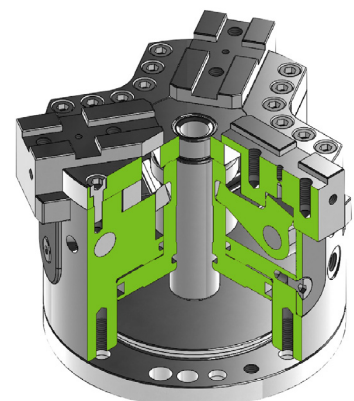
Ambient Temperature **5 - 60 °C (41 - 140 °F)**

Noise Emission (Sound Pressure) **≤ 70 dB(A) in any direction**

SECTIONAL DIAGRAM



For a better operation of the vise
please consider the distance between the clamping point
and the top surface of the jaws.

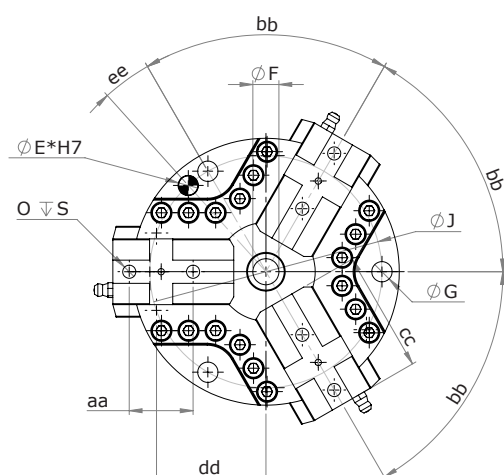
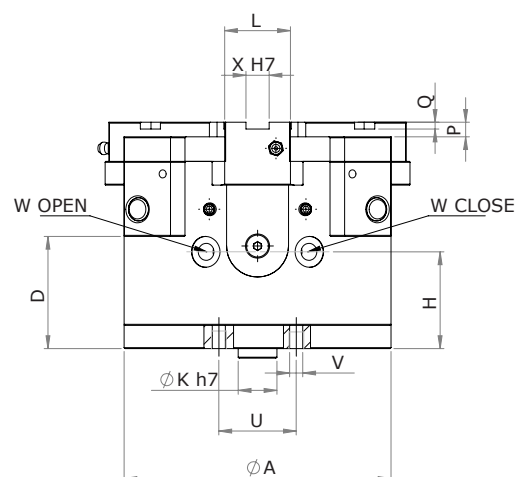
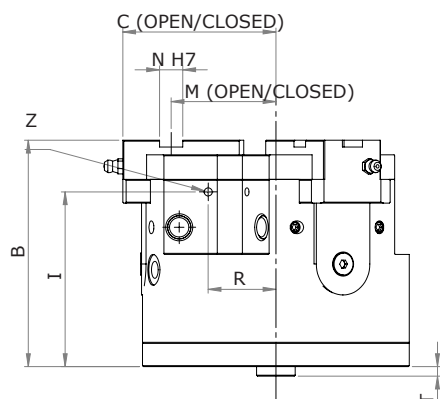


PRODUCT INFORMATION

M 3-Jaws



02.25_Rev.05



* Finished holes on request

	A	B	C open	C closed	D	E	F	G	H	I	J	K	L	M open	M close	N	O
M 113	112.00 (4.41)	91.00 (3.58)	63.00 (2.48)	57.00 (2.24)	45.00 (1.77)	8 (0.31)	8.00 (0.31)	8.50 (0.33)	41.50 (1.63)	60.00 (2.36)	95.00 (3.74)	16.00 (0.63)	26.00 (1.02)	43.50 (1.71)	37.50 (1.48)	10.00 (0.39)	M8
M 143	138.00 (5.43)	117.00 (4.61)	79.15 (3.12)	71.15 (2.80)	58.00 (2.28)	10 (0.39)	13.50 (0.53)	10.50 (0.41)	50.00 (1.97)	90.50 (3.56)	120.00 (4.72)	20.00 (0.79)	34.00 (1.34)	54.15 (2.13)	46.15 (1.82)	12.00 (0.47)	M8
M 173	168.00 (6.61)	138.00 (5.43)	92.00 (3.62)	81.00 (3.19)	68.00 (2.68)	10 (0.39)	19.00 (0.75)	11.00 (0.43)	67.00 (2.64)	107.80 (4.24)	145.00 (5.71)	25.00 (0.98)	40.00 (1.57)	61.00 (2.40)	52.00 (2.05)	16.00 (0.63)	M10

	P	Q	R	S	T	U	V	W open	W closed	X	Z	aa	bb	cc	dd	ee
M 113	6.00 (0.24)	3.50 (0.14)	32.50 (1.28)	13.00 (0.51)	5.20 (0.20)	32.00 (1.26)	M5	G1/8	G1/8	10.00 (0.39)	M5	25.00 (0.98)	60°	50.00 (1.97)	44.00 (1.73)	12°
M 143	7.50 (0.30)	3.50 (0.14)	35.00 (1.38)	15.00 (0.59)	5.00 (0.20)	40.00 (1.57)	M8	G1/8	G1/8	12.00 (0.47)	M5	33.00 (1.30)	60°	62.50 (2.46)	56.50 (2.22)	12°
M 173	8.80 (0.35)	4.00 (0.16)	53.50 (2.11)	17.00 (0.67)	4.50 (0.18)	49.00 (1.93)	M8	G1/4	G1/4	16.00 (0.63)	M5	40.00 (1.57)	60°	73.00 (2.87)	68.00 (2.68)	12°

* Dimensions are in millimeters (inches).

** All dimensions are descriptive and subject to variation for technical upgrading. We reserve the right to make variations without prior notification



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