

Self-centering vise MIR 2-Jaws

MIR is a hydraulically actuated 2-jaw self-centering vise. Used in machining centers and in custom high-productivity machines for clamping the workpiece with high precision. The solid, low-profile design is ideal for applications requiring large stock removal, threading or drilling applications.

The vises are available with standard stroke, or long stroke.

Advantages

- Precise wedge-hook mechanism allows machining accuracy
- High force drive for secure clamping
- Extended clamping range with long jaw guidance
- Optimum jaw guides (hardened, sturdy, low-backlash) allow high clamping forces and a long service life
- Hydraulic pressure up to 60 bar; 200 bar on request
- Optimized lubrication system for consistently high clamping forces and long life
- All functional parts are hardened and ground to ensure a high repeatability
- Suitable to dirty and dusty environments thanks to pressurization, jaw and scrapers to prevent or limit the ingress of foreign bodies.



SPECIFICATIONS

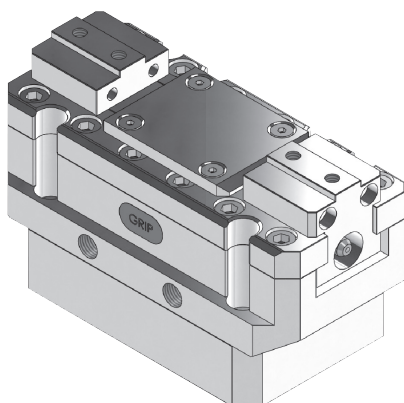
Model	Stroke per jaw	Closing force per jaw @ max pressure	Total closing force @ max pressure	Pressure	Repeatability	Fluid consumption double stroke	Weight
MIR 65 short stroke	5.5 mm	4427.5 N	8855 N	12-60 bar	±0.01 mm	32.44 cm ³	3.64 kg
	0.22 in	995.39 lb	1990.78 lb	174-870 psi	±0.0004 in	1.98 in ³	8.02 lb
MIR 65 long stroke	10 mm	2458.5 N	4917 N	12-60 bar	±0.01 mm	32.44 cm ³	3.64 kg
	0.39 in	552.72 lb	1105.44 lb	174-870 psi	±0.0004 in	1.98 in ³	8.02 lb
MIR 90 short stroke	7.5 mm	10631.5 N	21263 N	12-60 bar	±0.01 mm	102.43 cm ³	8.9 kg
	0.30 in	2390.17 lb	4780.35 lb	174-870 psi	±0.0004 in	6.25 in ³	19.62 lb
MIR 90 long stroke	13.5 mm	5907 N	11814 N	12-60 bar	±0.01 mm	102.43 cm ³	8.9 kg
	0.53 in	1328.01 lb	2656.02 lb	174-870 psi	±0.0004 in	6.25 in ³	19.62 lb
MIR 120 short stroke	10 mm	17897 N	35794 N	12-60 bar	±0.01 mm	230.76 cm ³	22.98 kg
	0.39 in	4023.60 lb	8047.21 lb	174-870 psi	±0.0004 in	14.08 in ³	50.66 lb
MIR 120 long stroke	18 mm	9949.5 N	19899 N	12-60 bar	±0.01 mm	230.76 cm ³	22.98 kg
	0.71 in	2236.85 lb	4473.69 lb	174-870 psi	±0.0004 in	14.08 in ³	50.66 lb
MIR 135 short stroke	11.5 mm	22236.5 N	44473 N	12-60 bar	±0.01 mm	330.29 cm ³	34.8 kg
	0.45 in	4999.21 lb	9998.42 lb	174-870 psi	±0.0004 in	20.16 in ³	76.72 lb
MIR 135 long stroke	20.6 mm	12358.5 N	24717 N	12-60 bar	±0.01 mm	330.29 cm ³	34.8 kg
	0.81 in	2778.44 lb	5556.88 lb	174-870 psi	±0.0004 in	13.00 in	4.77 lb

*Versions available **6 and 200 bar**

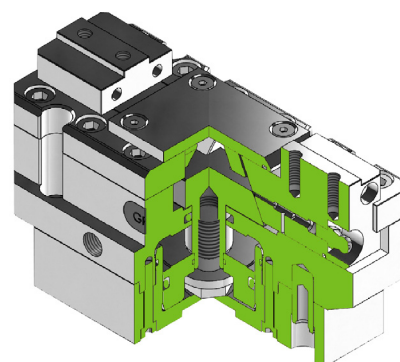
Ambient Temperature **5 - 60 °C (41 - 140 °F)**

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

SECTIONAL DIAGRAM

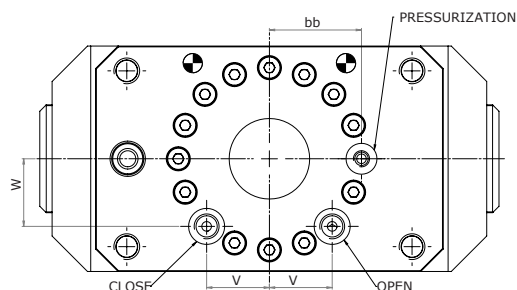
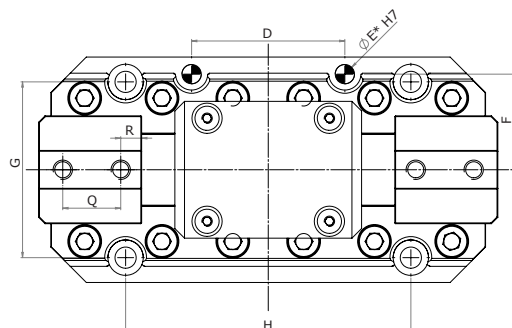
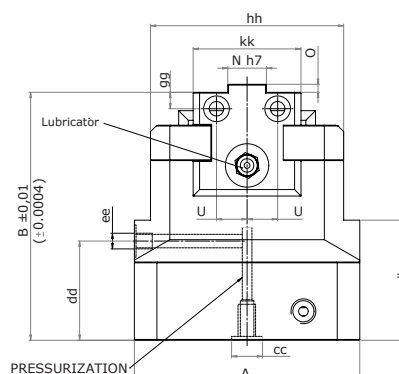
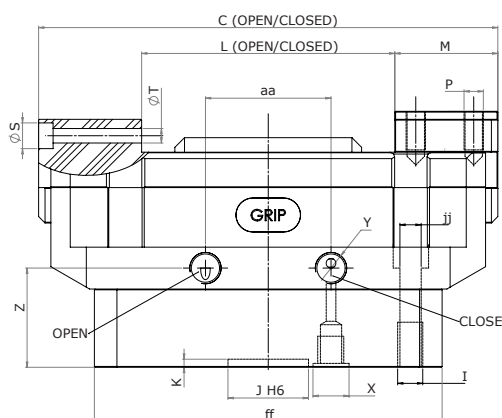


For a better operation of the vise
please consider the distance between the clamping point
and the top surface of the jaws.



PRODUCT INFORMATION

MIR 2-Jaws



	A	B	Short stroke C open	Short stroke C closed	Long stroke C open	Long stroke C closed	D	E	F	G	H	I	J	K	Short stroke L open	Short stroke L closed	Long stroke L open	Long stroke L closed	M	N	O
MIR 65	70 (2.76)	77 (3.03)	142.6 (5.61)	131.6 (5.18)	151.4 (5.96)	131.4 (5.17)	47.6 (1.87)	6 (0.24)	30 (1.17)	54.6 (2.15)	88.6 (3.49)	M8	25 (0.98)	2.5 (0.10)	78.6 (3.09)	67.6 (2.66)	87.4 (3.44)	67.4 (2.65)	32 (1.26)	12 (0.47)	2.5 (0.10)
MIR 90	93 (3.66)	106 (4.17)	185.3 (7.30)	170.3 (6.70)	197.2 (7.76)	170.2 (6.70)	68 (2.68)	8 (0.31)	39 (1.54)	72 (2.83)	120 (4.72)	M12	30 (1.18)	4 (0.16)	100.3 (3.95)	85.3 (3.36)	112.2 (4.42)	85.2 (3.35)	42.5 (1.67)	16 (0.63)	3 (0.12)
MIR 120	125 (4.92)	143 (5.63)	261.1 (10.28)	241.1 (9.49)	276.3 (10.88)	240.3 (9.46)	88 (3.46)	10 (0.39)	55 (2.17)	101 (3.98)	164 (6.46)	M16	40 (1.57)	5 (0.20)	141.1 (5.56)	121.1 (4.77)	156.3 (6.15)	120.3 (4.74)	60 (2.36)	22 (0.87)	4 (0.16)
MIR 135	145 (5.71)	161 (6.34)	295.3 (11.63)	272.3 (10.72)	314.3 (12.37)	273.1 (10.75)	99 (3.90)	12 (0.47)	60 (2.36)	114 (4.49)	185 (7.28)	M20	45 (1.77)	5.3 (0.21)	161.9 (6.37)	138.9 (5.47)	180.3 (7.10)	139.1 (5.48)	67 (2.64)	25 (0.98)	4.5 (0.18)

	P	Q	R	S	T	U	V	W	X OR size	Y	Z	aa	bb	cc OR size	dd	ee	ff	gg	hh	ii	jj	kk
MIR 65	M6	18 (0.71)	6.5 (0.26)	8 (0.31)	4.5 (0.18)	9.5 (0.37)	19.5 (0.77)	21 (0.83)	OR 2031	1/8" Gas	30.8 (1.21)	39 (1.54)	28.6 (1.13)	OR 2025	30.8 (1.21)	M5	108 (4.25)	5.1 (0.20)	60 (2.36)	37.3 (1.47)	6.6 (0.26)	33.5 (1.32)
MIR 90	M10	22 (0.87)	10.5 (0.41)	10.5 (0.41)	6.5 (0.26)	12.4 (0.49)	26.57 (1.05)	30.57 (1.20)	OR 2043	1/8" Gas	45 (1.77)	53 (2.09)	40.5 (1.59)	OR 2037	45 (1.77)	M5	149 (5.87)	7.2 (0.28)	80 (3.15)	53.5 (2.11)	9 (0.35)	44 (1.73)
MIR 120	M12	30 (1.18)	12 (0.47)	13.5 (0.53)	8.5 (0.33)	17.5 (0.69)	37.9 (1.49)	37.9 (1.49)	OR 2043	1/4" Gas	57 (2.24)	76 (2.99)	53.6 (2.11)	OR 2031	57 (2.24)	1/4" Gas	200 (7.87)	10 (0.39)	112 (4.41)	69 (2.72)	12.5 (0.49)	62 (2.44)
MIR 135	M16	34 (1.34)	16 (0.63)	14.5 (0.57)	8.5 (0.33)	20 (0.79)	40 (1.57)	45 (1.77)	OR 3043	1/4" Gas	63 (2.48)	80 (3.15)	61 (2.40)	OR 3056	63 (2.48)	1/4" Gas	225 (8.86)	11 (0.43)	126 (4.96)	76.5 (3.01)	17 (0.67)	70 (2.76)

* 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



Applied Robotics
648 Saratoga Road
Glenville, NY 12302 USA
Tel. +1 518 384 1000 Fax +1.5183841200
info@appliedrobotics.com
www.appliedrobotics.com



EFFECTO GROUP S.p.A.
Via Roma, 141/143
28017 San Maurizio d'Opaglio (NO) - Italy
Tel. +39 0322 96142 Fax +39 0322 967453
info@effectogroup.com
www.effectogroup.com

