

GRIPPER WITH TWO PARALLEL LONG-STROKE JAWS, SERIES P4K



Dual-acting grippers with parallel jaws and internal and external clamping.
Specifically designed for clamping particularly bulky items.
They come with a magnet and sensor grooves.
The lower plate has a V-Lock profile and grooves.
A plate with a V-Lock coupling can also be mounted to the sides of the grippers.



ACTUATORS

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TECHNICAL DATA		P4K-12
Operating pressure	bar	3 to 8
	MPa	0.3 to 0.8
	psi	43 to 116
Temperature range	°C	-10 to 80
Fluid		20 µm filtered air, lubricated or unlubricated. If lubricated air is used, lubrication must be continuous
Bore	mm	2 x 12
Clamping force of a single jaw at 6.3 bar, 20 mm from the upper surface, on opening and closing	N	45
Stroke of each jaw	mm	10
Max. frequency on continuous operation	Hz	> 4
Minimum opening/closing time	s	0.008 / 0.008
Repeatability	mm	< 0.04
Max. admissible static loads:		
- Fa	N	200
- Mx	Nm	6
- My	Nm	6
- Mz	Nm	8
Weight	kg	0.35

COMPONENTS

- ① BODY: anodized aluminium
- ② JAWS anodized aluminium
- ③ GUIDE BUSHING: steel strip with bronze insert
- ④ PISTON ROD: nitrided steel
- ⑤ DRIVE ROD: steel
- ⑥ PISTON GASKET: NBR
- ⑦ BUFFER: polyurethane
- ⑧ GASKET: NBR
- ⑨ PISTON ROD GASKET: polyurethane
- ⑩ END CAP: bronze
- ⑪ MAGNET: plastoneodymium
- ⑫ V-Lock REAR PLATE: anodized aluminium

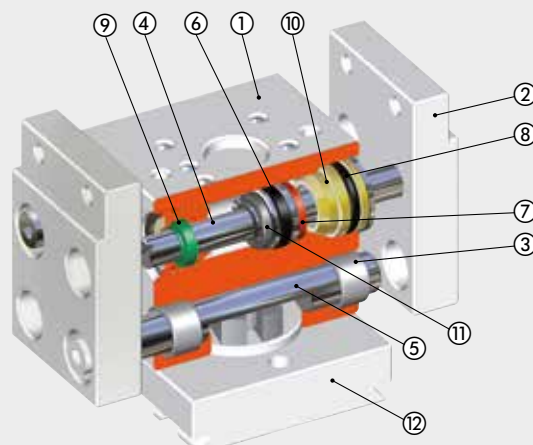
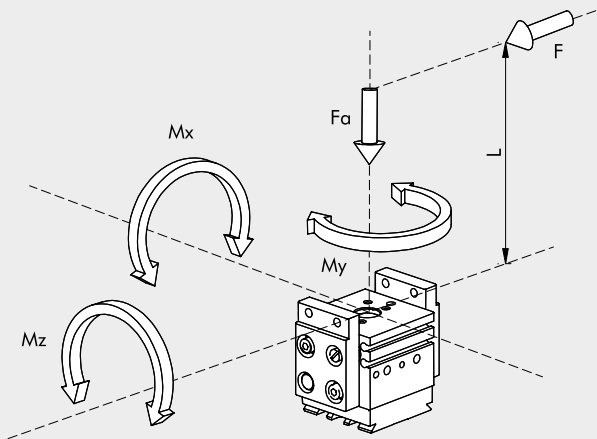
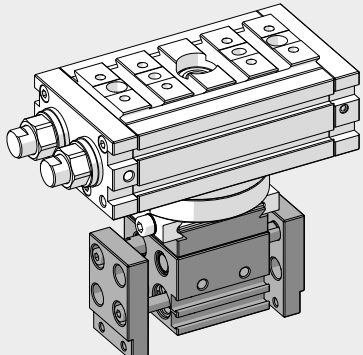
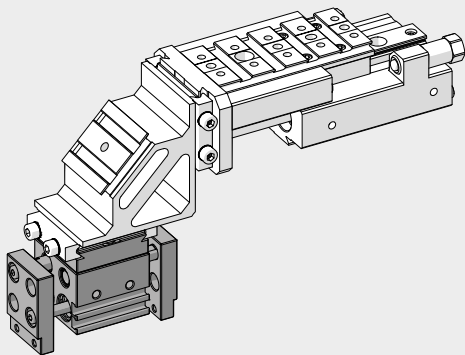


DIAGRAM OF FORCES AND MOMENTS



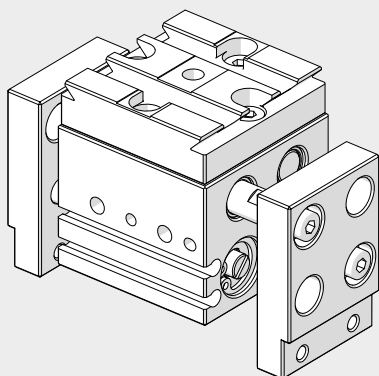
F Clamping force for each jaw
 F_a Maximum static axial force
 M_x, M_y, M_z Maximum static moments

EXAMPLES OF APPLICATION

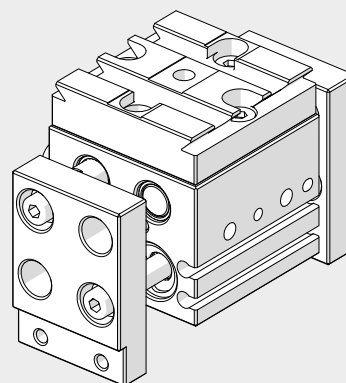


NOTES

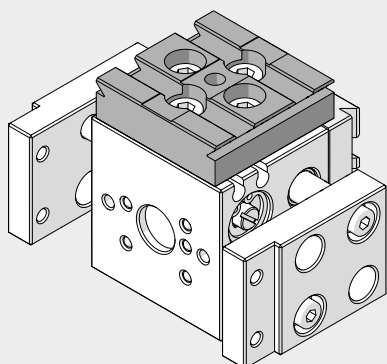
V-Lock MOUNTING OPTIONS



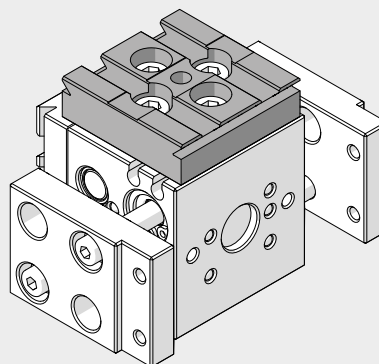
Gripper as supplied



Unscrew the 4 screws at the back and rotate the rear flange by 90°



Fix the accessory "type 1 side adaptor" code 0950008003K to the right, lengthwise



Fix the accessory "type 1 side adaptor" code 0950008003K to the right, crosswise

NOTES

