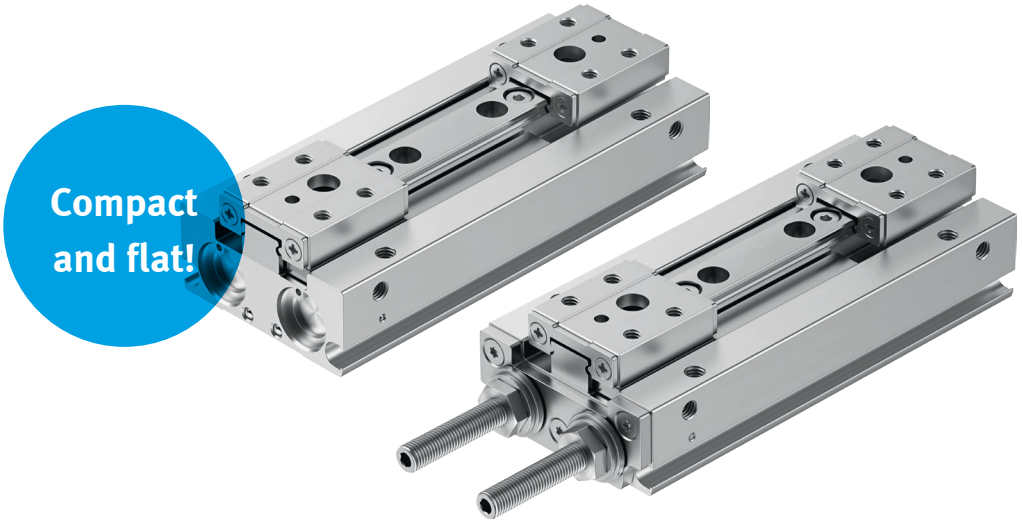
Parallel gripper HPPF



Performance at a low price!

Highlights

- Ideal: flat version with a compact design
- Durable: integrated guide and sturdy design
- Economical: best value for money
- Combinable: many sizes and strokes
- Sustainable: reduced use of materials
- Maintenance-free

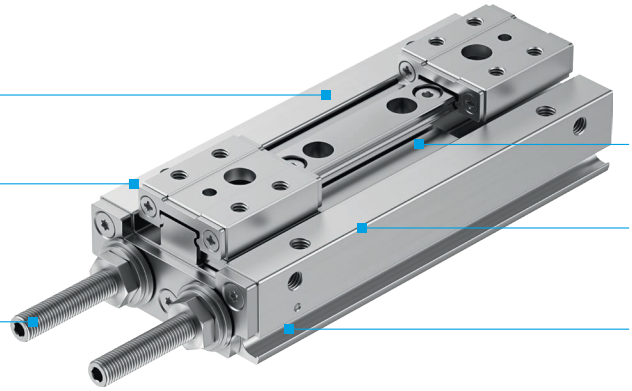
The compact, flat and cost-effective parallel grippers HPPF are designed for powerful performance. The long service life and high repetition accuracy are the result of the integrated, maintenance-free ball guide and the sturdy design. Their reduced copper, zinc and nickel content is just one of the things that makes them ideal for use in the electronics industry, in special machine building as well as in battery production. Or simply everywhere where an extremely flat design is required.

Gripper technology for a long life!
Thanks to the large stroke of up to 80 mm, a total gripping force of up to 377 N and the design-inspired rigidity, the parallel gripper can even transport large workpieces. It can also grip internally and externally. And last but not least, the high repetition accuracy is maintained throughout the gripper's entire life.

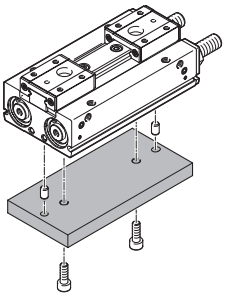
Cost-effective combinations
Versatility is built into the HPPF: the parallel gripper is available in four sizes, which can be optimally adjusted for application-specific stroke sizes thanks to elastic cushioning. The smallest of the size-optimised HPPF weighs just 68 g – ideal, for example, for assembling small parts in the electronics industry. Inductive proximity sensors provide a cost-effective and simple means of position sensing. Since the copper, zinc and nickel content is low, less than 1%, it is well suited for battery manufacturing.

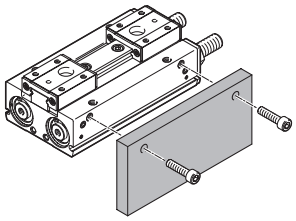
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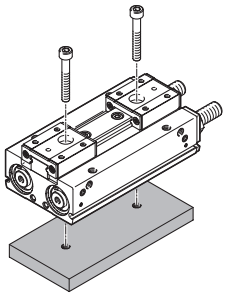
Product overview

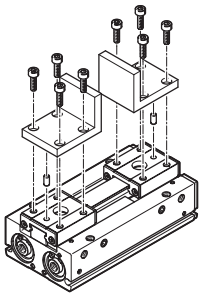


Simple mounting and connection options


From underneath


Sideways with through-hole


Vertical


Replaceable gripper fingers

Technical data

Size			8			12			16			20		
Total stroke		[mm]	8	16	32	12	24	48	16	32	64	20	40	80
Stroke per gripper jaw		[mm]	4	8	16	6	12	24	8	16	32	10	20	40
Operating mode			Double-acting											
Guide			Ball guide											
Repetition accuracy[1]		[mm]	≤0.03			≤0.02			≤0.06					
Max. operating frequency		[Hz]	2						1					
Position sensing			Slot for proximity sensor											
Type of mounting			Direct mounting via through-hole, direct mounting via thread											
Operating pressure[2]		[MPa]	0.15 ... 0.7			0.1 ... 0.7								
Ambient temperature		[°C]	–10 ... +60											
Weight[2]		[g]	68	83	122	157	205	305	366	471	691	690	887	1326
Min. opening time at 0.6 MPa[3]		[ms]	0.015	0.032	0.046	0.046	0.075	0.121	0.055	0.093	0.189	0.09	0.12	0.24
Min. closing time at 0.6 MPa[3]		[ms]	0.012	0.031	0.044	0.044	0.073	0.105	0.047	0.091	0.181	0.07	0.11	0.225
Total gripping force at 0.6 MPa	Opening	[N]	60.32			135.72			241.28			377		
	Closing	[N]	60.32			135.72			241.28			377		
Max. permissible static force Fz at the gripper jaws		[N]	58			98			176			294		
Max. permissible static torque at the gripper jaws	Mx	[Nm]	0.6			1.4			2.8			4		
	My	[Nm]	0.3			0.7			1.4			2.0		
	Mz	[Nm]	0.3			0.7			1.4			2.0		

1) Under constant exposure to operating conditions, end-position drift occurs in the direction of movement of the gripper jaws at 100 consecutive strokes.
2) Values for the basic version; values for the version with adjustable stroke may vary.
3) The indicated opening and closing times were measured at room temperature at an operating pressure of 0.6 MPa with a horizontally mounted gripper without additional gripper fingers. The grippers must be throttled for larger masses. Opening and closing times must then be adjusted accordingly.

142569 en 2022/06 – Errors and omissions excepted