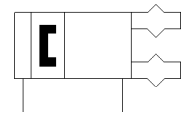
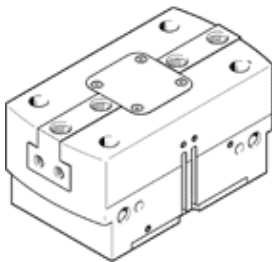


parallel gripper HGPT-80-A-B-F

Part number: 560237

FESTO

sturdy high-power variant.



Data sheet

Feature	Value
Size	80
Stroke per gripper jaw	12.5 mm
Max. replacement accuracy	≤ 0.2 mm
Max. angular gripper jaw backlash ax,ay	≤ 0.1 deg
Max. gripper jaw backlash Sz	≤ 0.02 mm
Rotationally symmetrical	≤ 0.2 mm
Repetition accuracy, gripper	≤ 0.05 mm
Number of gripper fingers	2
Drive system	pneumatic
Assembly position	Any
Mode of operation	double-acting
Gripper function	Parallel
Gripper force back-up	No
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total gripping force at 0.6 MPa (6 bar, 87 psi), opening	6,550 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	6,300 N
Operating pressure	3 ... 8 bar
Operating pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	≤ 2 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	212 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	211 ms
Max. mass per external gripper finger	1,830 g
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Protection class	IP40
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	3,275 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	3,150 N
Mass moment of inertia	150.515 kgcm ²
Max. force on gripper jaw Fz static	7,000 N
Max. torque at gripper Mx static	180 Nm
Max. torque at gripper My static	220 Nm
Max. torque at gripper Mz static	170 Nm
Lubrication interval for guide components	5 Mio SP
Product weight	4,745 g
Mounting type	Internal thread and centring sleeve With through-hole and centring sleeve With through-hole and dowel pin With internal thread and dowel pin

Feature	Value
	Optional
Pneumatic connection, sealing air	M5
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Anodised aluminium
Material gripper jaws	Steel, hardened