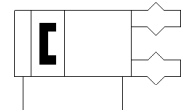
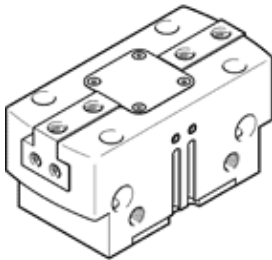


# Parallel gripper HGPT-50-A-B-F

Part number: 560225

FESTO

sturdy high-power variant.



## Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	6 mm
Max. replacement accuracy	$\leq 0.2$ mm
Max. angular gripper jaw backlash ax,ay	$\leq 0.1$ deg
Max. gripper jaw backlash Sz	$\leq 0.02$ mm
Rotationally symmetrical	$\leq 0.2$ mm
Repetition accuracy, gripper	$\leq 0.05$ 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	2,370 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	2,226 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 2$ Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	83 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	82 ms
Max. mass per external gripper finger	640 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	1,185 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	1,113 N
Mass moment of inertia	19.488 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	3,200 N
Max. torque at gripper Mx static	120 Nm
Max. torque at gripper My static	120 Nm
Max. torque at gripper Mz static	100 Nm
Lubrication interval for guide components	5 Mio SP
Product weight	1,400 g
Mounting type	Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin

Feature	Value
	Optional
Pneumatic connection, sealing air	M5
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Anodised aluminium
Material gripper jaws	Steel, hardened