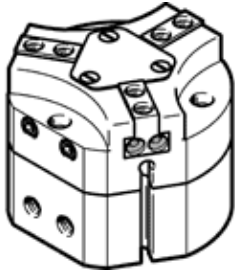


# three-point gripper HGDT-50-A-F-G1

Part number: 560187

FESTO

Sturdy, can be used as internal and external gripper, for position sensing. With gripping force retention when opening ...-G1.



## Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	4 mm
Max. replacement accuracy	$\leq 0.2$ mm
Max. angular gripper jaw backlash ax,ay	$\leq 0.1$ deg
Max. gripper jaw backlash Sz	$\leq 0.05$ mm
Rotationally symmetrical	$\leq 0.2$ mm
Repetition accuracy, gripper	$\leq 0.03$ mm
Number of gripper fingers	3
Assembly position	Any
Mode of operation	double-acting
Gripper function	3-point
Gripper force back-up	On opening
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Operating pressure	4 ... 8 bar
Operating pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 4$ Hz
Min. opening time at 6 bar	31 ms
Min. closing time at 6 bar	170 ms
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
Ambient temperature	5 ... 60 °C
Mass moment of inertia	15.33 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	1,500 N
Max. torque at gripper Mx static	50 Nm
Max. torque at gripper My static	30 Nm
Max. torque at gripper Mz static	40 Nm
Lubrication interval for guide components	5 Mio SP
Max. mass per external gripper finger	160 g
Product weight	1,592 g
Mounting type	With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection, sealing air	M5
Pneumatic connection	G1/8
Materials note	Free of copper and PTFE Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Wrought Aluminium alloy COMPCOTE coated
Material gripper jaws	Steel Hardened