

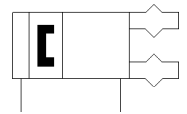
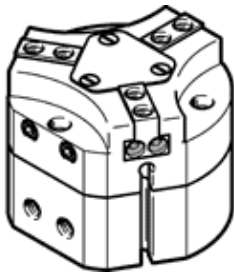
# three-point gripper

## HGDT-25-A

Part number: 540859

**FESTO**

Sturdy, can be used as internal and external gripper, for position sensing.



## Data sheet

Feature	Value
Size	25
Stroke per gripper jaw	3 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
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	246 N
Total force at 6 bar, closing	207 N
Operating pressure	3 ... 8 bar
Operating pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 4$ Hz
Min. opening time at 6 bar	28 ms
Min. closing time at 6 bar	25 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
Gripping force per gripper jaw at 6 bar, opening	82 N
Gripping force per gripper jaw at 6 bar, closing	69 N
Mass moment of inertia	0.48 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	350 N
Max. torque at gripper Mx static	7 Nm
Max. torque at gripper My static	10 Nm
Max. torque at gripper Mz static	5 Nm
Lubrication interval for guide components	5 Mio SP
Max. ground per external gripper finger	10 g
Product weight	185 g
Mounting type	Optional With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection, sealing air	M5
Pneumatic connection	M5
Materials note	Free of copper and PTFE
Material cover cap	High alloy steel, non-corrosive
Material housing	Wrought Aluminium alloy COMPCOTE coated
Material gripper jaws	Steel Hardened