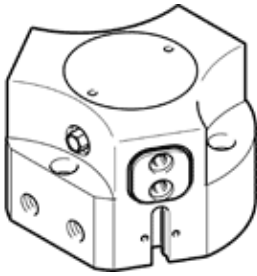


Three-point gripper HGDD-50-A

Part number: 1163043

FESTO



Data sheet

Feature	values
Size	50
Stroke per gripper jaw	8 mm
Max. replacement accuracy	≤ 0.2 mm
Max. angular gripper jaw backlash ax,ay	≤ 0.1 deg
Max. gripper jaw backlash Sz	≤ 0.05 mm
Rotationally symmetrical	≤ 0.2 mm
Repetition accuracy, gripper	≤ 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	1,113 N
Total force at 6 bar, closing	1,044 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	≤ 4 Hz
Min. opening time at 6 bar	93 ms
Min. closing time at 6 bar	128 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
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	371 N
Gripping force per gripper jaw at 6 bar, closing	348 N
Mass moment of inertia	9.65 kgcm ²
Max. force on gripper jaw Fz static	1,300 N
Max. torque at gripper Mx static	45 Nm
Max. torque at gripper My static	30 Nm
Max. torque at gripper Mz static	30 Nm
Lubrication interval for guide components	5 Mio SP
Max. ground per external gripper finger	276 g
Product weight	1,117 g
Mounting type	Optional With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection, sealing air	M5
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Materials information for cover cap	High alloy steel, non-corrosive
Materials information, housing	Wrought Aluminum alloy Smooth anodized
Materials information for gripper jaws	Steel Hardened