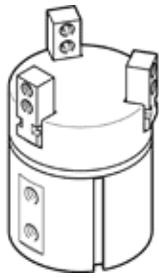


# three-point gripper DHDS-50-A

Part number: 1259495

FESTO



## 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	$\leq 0.2$ deg
Max. gripper jaw backlash Sz	$\leq 0.02$ mm
Rotationally symmetrical	$\leq 0.2$ mm
Repetition accuracy, gripper	$\leq 0.04$ mm
Number of gripper fingers	3
Assembly position	Any
Mode of operation	double-acting
Gripper function	3-point
Design structure	Lever guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	840 N
Total force at 6 bar, closing	750 N
Operating pressure	2 ... 8 bar
Max. operating frequency of gripper	$\leq 4$ Hz
Min. opening time at 6 bar	62 ms
Min. closing time at 6 bar	55 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	1 - Low corrosion stress
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	280 N
Gripping force per gripper jaw at 6 bar, closing	250 N
Mass moment of inertia	6.1 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	250 N
Max. torque at gripper Mx static	24 Nm
Max. torque at gripper My static	24 Nm
Max. torque at gripper Mz static	24 Nm
Lubrication interval for guide components	10 Mio SP
Max. mass per external gripper finger	250 g
Product weight	920 g
Mounting type	With internal thread and dowel pin
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover cap	PA
Material housing	Wrought Aluminium alloy Hard anodised
Material gripper jaws	High alloy steel, non-corrosive