

# Parallel gripper HGPT-20-A

Part number: 535861

FESTO

sturdy.



## Data sheet

Feature	Value
Size	20
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	$\leq 0.02$ mm
Rotationally symmetrical	$\leq 0.2$ mm
Repetition accuracy, gripper	$\leq 0.04$ mm
Number of gripper fingers	2
Assembly position	Any
Mode of operation	double-acting
Gripper function	Parallel
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	150 N
Total force at 6 bar, closing	140 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 3$ Hz
Min. opening time at 6 bar	31 ms
Min. closing time at 6 bar	31 ms
Operating medium	Dried compressed air, lubricated or unlubricated
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	75 N
Gripping force per gripper jaw at 6 bar, closing	70 N
Mass moment of inertia	0.391 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	300 N
Max. torque at gripper Mx static	15 Nm
Max. torque at gripper My static	10 Nm
Max. torque at gripper Mz static	8 Nm
Lubrication interval for guide components	5 Mio SP
Product weight	183 g
Mounting type	Optional With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection, sealing air	M3
Pneumatic connection	M3
Materials note	Free of copper and PTFE
Materials information for cover cap	High alloy steel, non-corrosive
Materials information, housing	Aluminum COMPCOTE coated
Materials information for gripper jaws	Steel Hardened