Three-point gripper
HGDT-25-A-G2

Part number: 540861



Data sheet

Feature	Value
Size	25
Stroke per gripper jaw	3 mm
Max. interchangeability	0.2 mm
Max. gripper jaw angular play ax, ay	0.1 deg
Max. gripper jaw backlash Sz	0.05 mm
Rotational symmetry	0.2 mm
Pneumatic gripper repetition accuracy	0.03 mm
Number of gripper jaws	3
Mounting position	Any
Mode of operation	Double-acting
Gripper function	3-point
Gripping force backup	During closing
Structural design	Inclined plane Positively driven motion sequence
Position sensing	Via proximity switch
Operating pressure	4 bar...8 bar
Operating pressure for sealing air	0 bar...0.5 bar
Max. operating frequency of pneumatic gripper	4 Hz
Min. opening time at 6 bar	33 ms
Min. closing time at 6 bar	25 ms
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	5 °C...60 °C
Mass moment of inertia	0.5 kgcm²
Maximum force on gripper jaw Fz, static	350 N
Maximum torque on gripper jaw, Mx static	7 Nm
Maximum torque on gripper jaw, My static	10 Nm
Maximum torque on gripper jaw, Mz static	5 Nm
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	10 g

Feature	Value
Product weight	203 g
Type of mounting	Alternatively: With through-hole and dowel pin With internal thread and dowel pin
Sealing air pneumatic connection	M5
Pneumatic connection	M5
Cover cap material	high-alloy stainless steel
Housing material	Wrought aluminum alloy COMPCOTE-coated
Gripper jaw material	Hardened steel