Three-point gripper
HGDT-63-A-G2

Part number: 540873



Data sheet

Feature	Value
Size	63
Stroke per gripper jaw	10 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	159 ms
Min. closing time at 6 bar	107 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	39.5 kgcm²
Maximum force on gripper jaw Fz, static	2500 N
Maximum torque on gripper jaw, Mx static	80 Nm
Maximum torque on gripper jaw, My static	50 Nm
Maximum torque on gripper jaw, Mz static	60 Nm
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	250 g

Feature	Value
Product weight	2543 g
Type of mounting	Alternatively: With through-hole and dowel pin With internal thread and dowel pin
Sealing air pneumatic connection	M5
Pneumatic connection	G1/8
Cover cap material	high-alloy stainless steel
Housing material	Wrought aluminum alloy COMPCOTE-coated
Gripper jaw material	Hardened steel