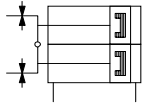


# T-slot parallel gripper HGPT-...-RR

Ø 16, 20, 25, 35 mm, opening stroke 3.0 to 8.0 mm

Cleanroom class ISO 4 (FS209E class 10)

Double acting T-slot gripper  
HGPT-...-A-RR

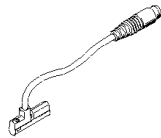


The force generated by the linear motion is translated into the gripper jaw movement via a wedge mechanism with guided motion sequence. This also guarantees synchronous movement of the gripper jaws. The virtually backlash-free slide way is realised using ground-in gripper jaws.

When vacuum is applied to the vacuum suction port, all the particles and lubrication mist that are generated by the movement of the gripper jaws, during operation will be sucked away. These prevent contamination in the cleanroom.

### Accessories

Proximity sensor for fitting in slot (Page 40)  
SME-10...



### Selection criteria:

Refer to DK1 (Electronic catalogue) or Volume 1 of Pneumatic Drives catalogue.

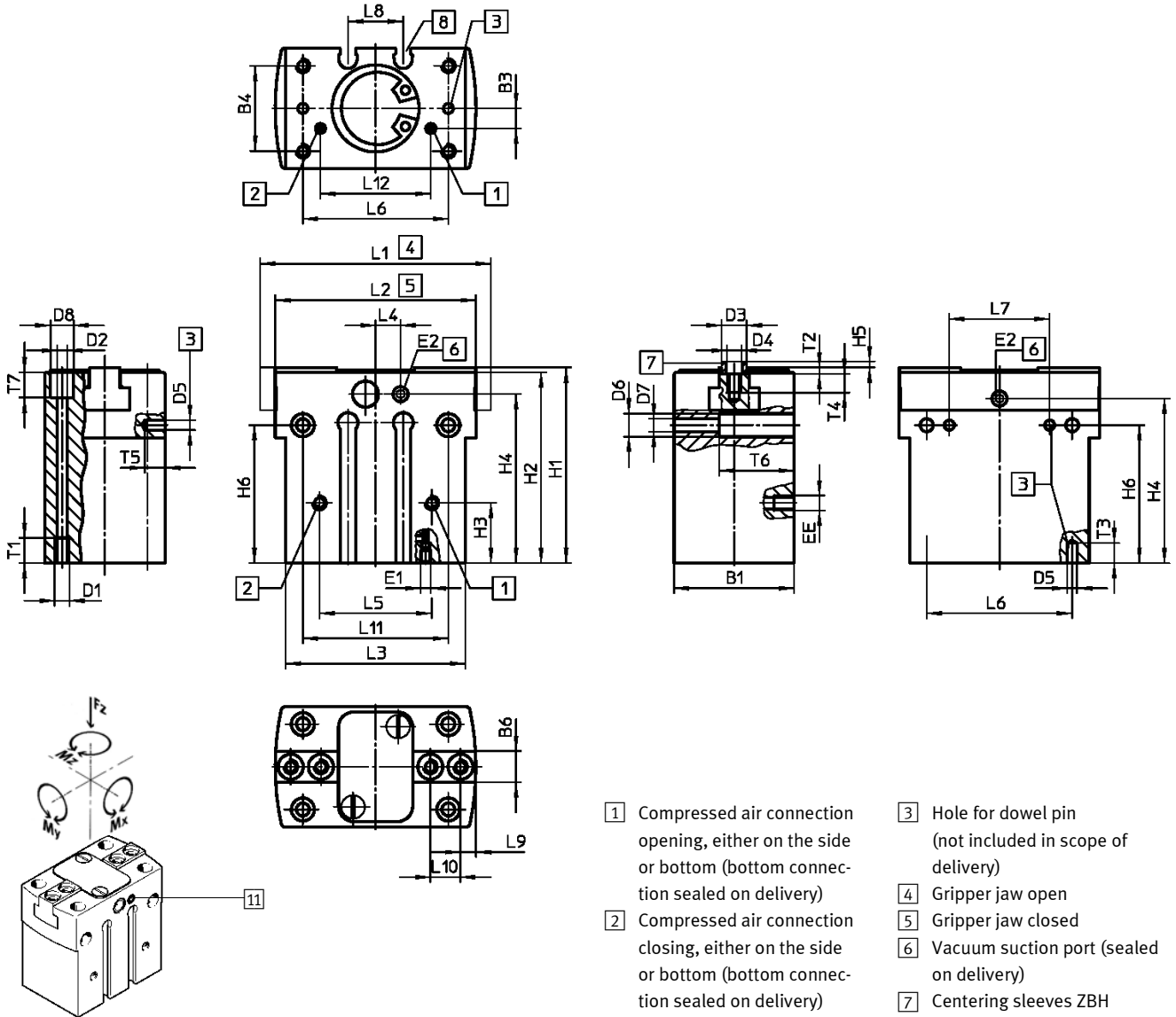
Type	Part No.	Ø	Opening stroke per jaw	Con-nection	Gripping force per gripper at 6 bar	Max. applied load for additional gripper fingers	Repetition accuracy	Operating pressure	Max. jaw backlash		Max. frequency
		[mm]							[mm]	[°]	
HGPT-16-A-RR	15083557	16	3.0	M3	62	< 0.5	< 0.03	3...8	0.02	0.1	3
HGPT-20-A-RR	15083558	20	4.0	M3	102	< 1	< 0.04				
HGPT-25-A-RR	15083559	25	6.0	M5	158	< 1.5	< 0.04				
HGPT-35-A-RR	15083560	35	8.0	M5	310	< 2	< 0.05				

Technical data			Size	16	20	25	35
Max. permissible static characteristic load values	Forces	Fz Gripper jaw	[N]	200	300	500	900
	Torques	Mx	[Nm]	10	15	30	50
		My	[Nm]	7	10	25	40
		Mz	[Nm]	5	8	15	30
Mass moments of inertia	Jz	[kgm <sup>2</sup> x10 <sup>-4</sup> ]	0.177	0.391	1.263	3.383	
Opening and closing times (without gripper fingers at 6 bar)	open	[ms]	20	31	30	40	
	close	[ms]	21	31	33	40	
Opening and closing times (with additional gripper fingers as a function of the applied load)	1 N	[ms]	100	–	–	–	
	2 N	[ms]	200	150	100	–	
	3 N	[ms]	300-	250	200	150	
	4 N	[ms]	–	350	300	250	
Weights		[g]	102	183	361	625	
Materials	Housing		Aluminium , coated with ComCote				
	Gripper jaws		Hardened steel				
	Seals		Nitrile rubber				
Ambient conditions	Temperature range	[°C]	+5 ... + 60				

# T-slot parallel gripper HGPT-...-RR

Ø 16, 20, 25, 35 mm, opening stroke 3.0 to 8.0 mm

Cleanroom class ISO 4 (FS209E class 10)



11 Vacuum suction port

- 1 Compressed air connection opening, either on the side or bottom (bottom connection sealed on delivery)
- 2 Compressed air connection closing, either on the side or bottom (bottom connection sealed on delivery)
- 3 Hole for dowel pin (not included in scope of delivery)
- 4 Gripper jaw open
- 5 Gripper jaw closed
- 6 Vacuum suction port (sealed on delivery)
- 7 Centering sleeves ZBH
- 8 Slot for proximity sensor

Ø	B1	B3	B4	B6	D1	D2	D3	D4	D5	D6	D7	D8	EE	E1	E2	H1	H2	H3	H4	H5
						Ø	Ø		Ø	Ø	Ø	Ø								
16	24	4	17	6	M3	2.6	5	M3	2	4.6+0.1	2.6	4.6+0.1	M3	M2	M3	39	38	12	33.7	1.2
20	28	7	22	6.5	M4	3.2	5	M3	3	6+0.2	3.2	6+0.2	M3	M3	M3	46	45	15	37	1.2
25	36	10	27	10	M5	4.2	7	M4	4	8+0.3	4.2	8+0.3	M5	M3	M5	57	56	20	46	1.4
35	42	9	32	12	M5	4.2	9	M6	4	10+0.3	5.3	8+0.3	M5	M4	M5	67	66	28	53	1.9

Ø	L7	L8	L9	L10	L11	L12	T1	T2	T3	T4	T5	T6	T7	H6	L1	L2	L3	L4	L5	L6
16	20	11	3	6	29	22	5	1.3	4	5	4	15	24	27.5	46	40	35.8	3.8	22.4	29
20	24	18	4	8	35	24	6	1.3	4	5	4	19	11	24	58	50	44	0	28	35
25	20	17	5	12	42	28	10	1.6	4	5	4	24	16	34	76	64	52	0	28	42
35	40	24	6	15	52	40	10	2.1	6	10	4	27	19	38	96	80	64	0	40	52