

P5GD - Parallel precision guided double acting, square jaw carriers

The P5GD is a parallel double acting gripper with integral linear guides that provide rigidity and high precision for the stainless steel jaw carriers. The anodised aluminium body has mounting points on four sides and integral sensors grooves.



- Bore sizes Ø10, 16, 20 and 25mm
- Double acting
- Stainless steel jaw carriers
- Anodised corrosion protection
- Magnetic piston as standard
- Optional sensors

Technical Information

Acting type	Double acting			
Bore (mm)	10	16	20	25
Port size	M3 x 0.5	M5 x 0.8		
Medium	Air			
Operating pressure range	2 to 7 bar		1 to 7 bar	
Temperature range	-10 to +60°C (no freezing)			
Repeatability	± 0.01 mm			
Max operating frequency	180 Cycles/min			
Lubrication	Not required			
Weight (g)	55	125	250	460

P5GD - Parallel Grippers

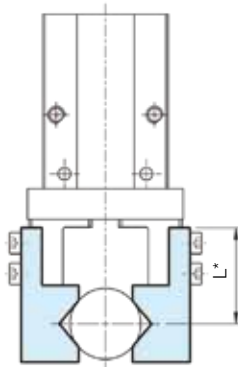
Bore mm	Order code
10	P5GD-010MSG004B
16	P5GD-016MSG006B
20	P5GD-020MSG010B
25	P5GD-025MSG014B

Bore	Gripping force ⁽¹⁾		Opening closing stroke (both sides) (mm)
	Gripping force per finger effective value N (kgf)		
10	External 9.8 (1)	Internal 17 (1.7)	4
16	30 (3.1)	40 (4.1)	6
20	42 (4.3)	66 (6.7)	10
25	65 (6.6)	104 (10.6)	14

¹⁾ Values based on pressure of 0.5 MPa (5.1 kgf/cm²)

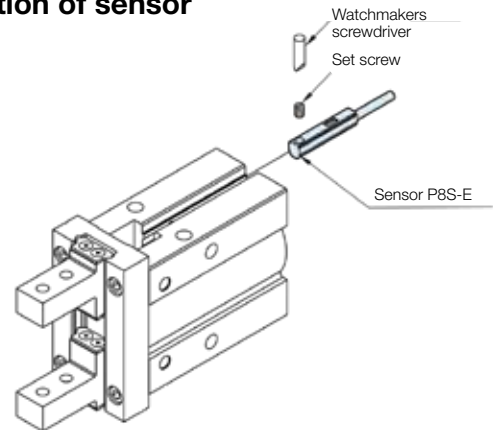
For more information see www.parker.com/euro_pneumatic

Length of gripping point



* L = Gripping point L = 20mm at center of stroke

Installation of sensor



Sensors - Series P8S-E

Magnetic Sensor

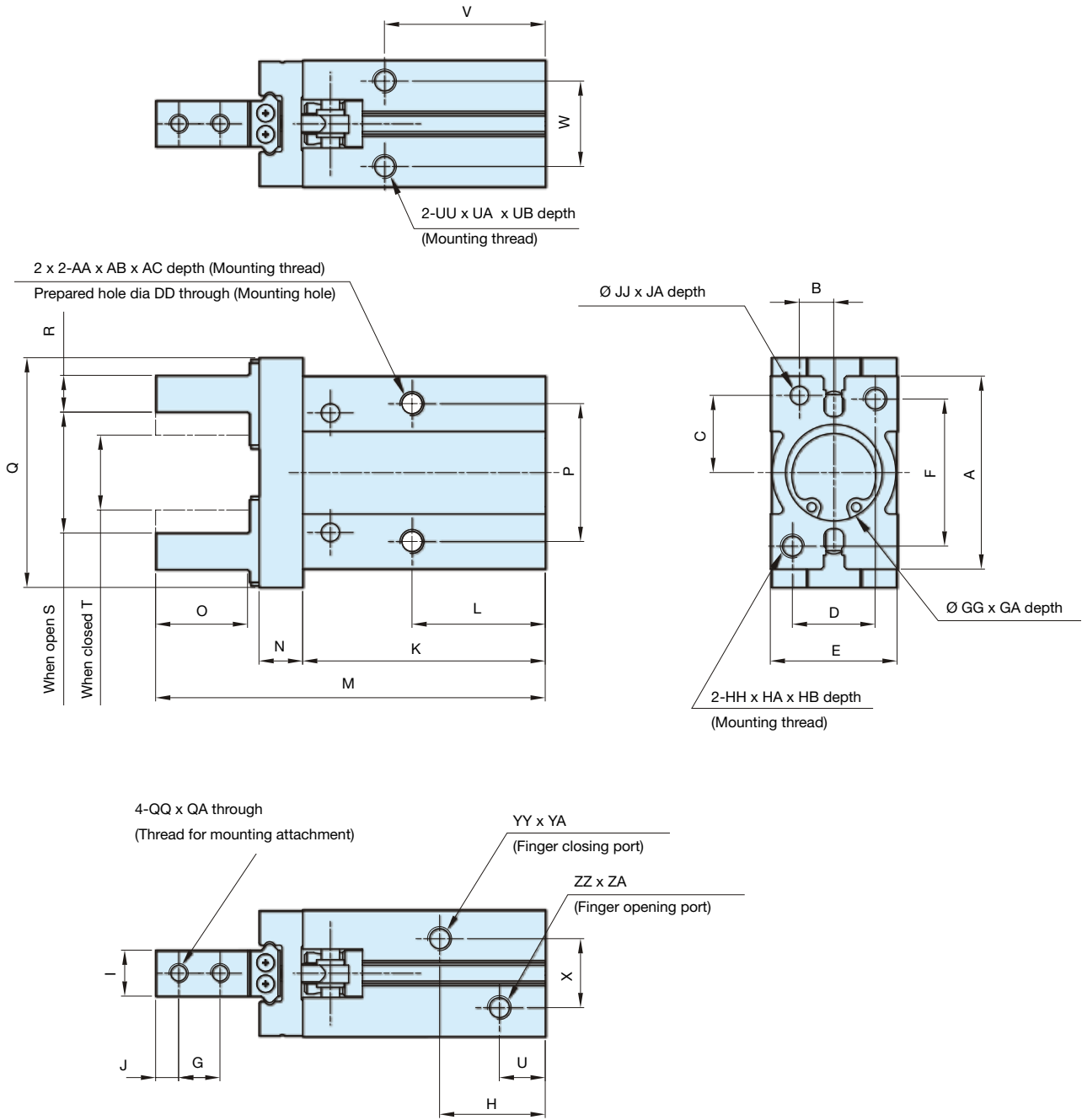
M8 - Snap in

Flying lead



	0.165 m PUR cable with M8 connector	2 m PUR cable
PNP	P8S-EPSUS	P8S-EPFXS
NPN	P8S-ENSUS	P8S-ENFXS
Reed	P8S-ERSUS	P8S-ERFXS

Dimensions (mm)



Bore mm	A	AA	AB	AC	B	C	D	DD	E	F	G	GG	GA	H	HH	HA	HB	I	J	JJ	JA	K	L	M
10	23	M3	0.5	5.5	5.2 ^{+0.025} ₀	7.6 ^{+0.02} _{-0.02}	12	2.6	16.4 ^{+0.05} _{-0.05}	18	5.7	11H9 ^{+0.043} ₀	2	19	M3	0.5	6	5 ⁰ _{-0.05}	3	2H9 ^{+0.025} ₀	3	37.8	23	57
16	30.6	M4	0.7	8	6.5 ^{+0.25} ₀	11 ^{+0.02} _{-0.02}	15	3.4	23.6 ^{+0.05} _{-0.05}	22	7	17H9 ^{+0.043} ₀	2	19	M4	0.7	8	8 ⁰ _{-0.05}	4	3H9 ^{+0.025} ₀	3	42.5	24.5	67.3
20	42	M5	0.8	10	7.5 ^{+0.030} ₀	16.8 ^{+0.02} _{-0.02}	18	3.4	27.6 ^{+0.05} _{-0.05}	32	9	21H9 ^{+0.052} ₀	3	23	M5	0.8	10	10 ⁰ _{-0.05}	5	4H9 ^{+0.030} ₀	4	52.8	29	84.8
25	52	M6	1	12	10 ^{+0.02} _{-0.02}	21.8 ^{+0.02} _{-0.02}	22	5.1	33.6 ^{+0.05} _{-0.05}	40	12	21H9 ^{+0.052} ₀	3.5	23.5	M6	1	12	12 ⁰ _{-0.05}	6	4H9 ^{+0.02} _{-0.02}	4	63.6	30	102.7
Bore mm	N	O	P	Q	QQ	QA	R	S	T	U	UU	UA	UB	V	W	X	YY	YA	ZZ	ZA				
10	6	12	16	29	M2.5	0.45	4 ⁰ _{-0.1}	15.2 ^{+2.2} ₀	11.2 ⁰ _{-0.7}	9	M3	0.5	6	27	11.4	10	M3	0.5	M3	0.5				
16	7.5	15	24	38	M3	0.5	5 ⁰ _{-0.1}	20.9 ^{+2.2} _{0.2}	14.9 ⁰ _{-0.7}	8.5	M4	0.7	4.5	30	16	13	M5	0.8	M5	0.8				
20	9.5	20	30	50	M4	0.7	8 ⁰ _{-0.1}	26.3 ^{+2.2} _{0.2}	16.3 ⁰ _{-0.7}	10	M5	0.8	8	35	18.6	15	M5	0.8	M5	0.8				
25	11	25	36	63	M5	0.8	10 ⁰ _{-0.1}	33.3 ^{+2.2} _{0.2}	19.3 ⁰ _{-0.8}	9.7	M6	1	10	36.5	22	20	M5	0.8	M5	0.8				