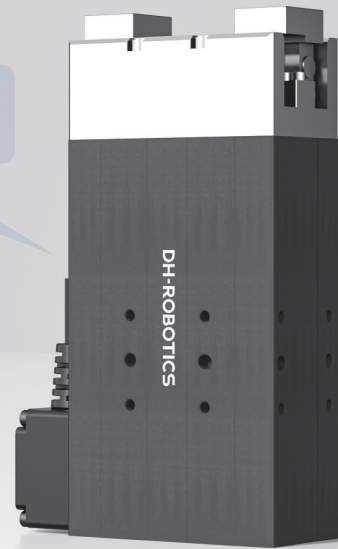
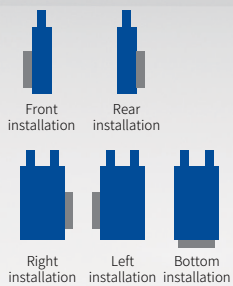


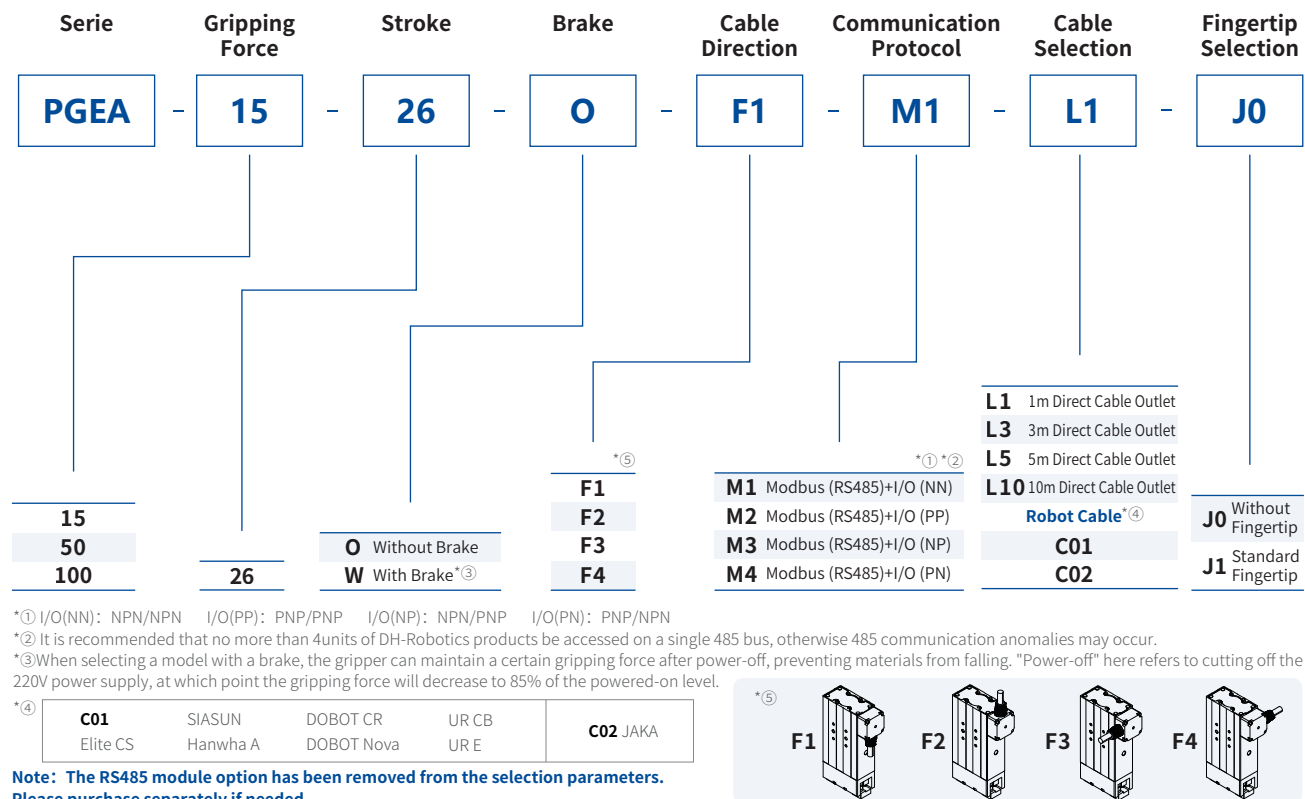
PGEA-15/50/100-26

Slim-type Electric Parallel Gripper

Integrated-Drive

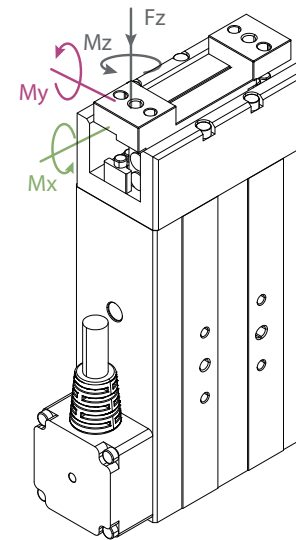


Selection Method



Note: The RS485 module option has been removed from the selection parameters. Please purchase separately if needed.

TECHNICAL SPECIFICATIONS



Static Vertical Allowable Load

Fz 150 N

Allowable Loading Moment

Mx 2.5 N·m

My 2 N·m

Mz 3 N·m

Product Parameter	PGEA-15-26	PGEA-50-26	PGEA-100-26
Gripping force(per jaw)	6~15 N	15~50 N	30~100 N
Recommended workpiece weight*⑥	0.25 kg	1 kg	2 kg
Stroke	26 mm	26 mm	26 mm
Repeat accuracy (positioning)	± 0.02 mm	± 0.02 mm	± 0.02 mm
Weight	0.5kg with or without brake	0.5kg with or without brake	0.53kg/0.6kg with brake
Dimensions (L xW x H)	118mm*55mm*29mm with or without brake	118mm*55mm*29mm (without brake) 138mm*55mm*29mm (with brake)	
Noise emission	< 50 dB	< 50 dB	< 50 dB
Driving method	Rack and Pinion Crossed Roller Guide		

Working Environment

Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *⑦		
Nominal voltage	24 V DC ± 10%		
Nominal & Max. current	0.3 A (Rated) 0.8 A (Peak)	0.2 A (Rated) 0.8 A (Peak)	0.3 A (Rated) 1.2 A (Peak)*⑧
Max power	20 W	20 W	30 W
IP protection class	IP 40		
Recommended operating environment	0~40°C, under 85% RH		
Overseas standards	CE, FCC, RoHS		

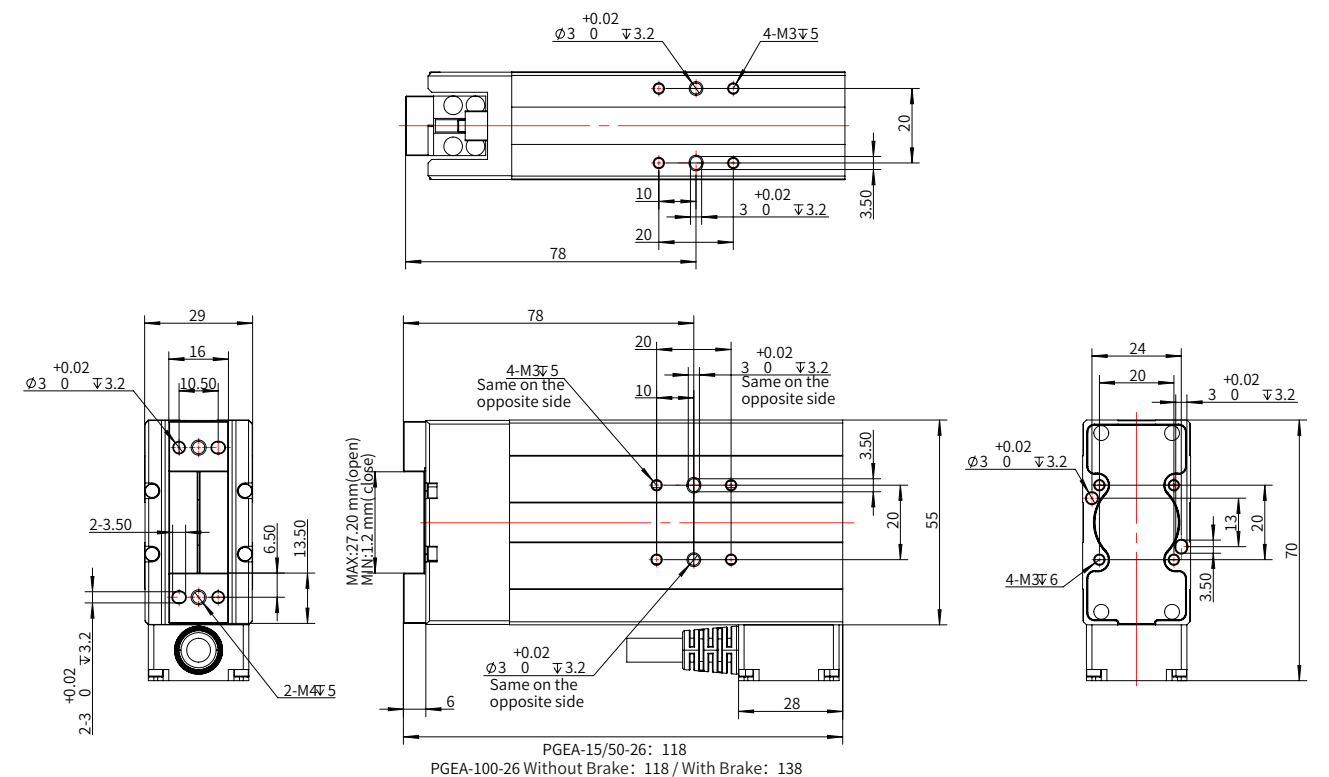
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Self-locking Mechanism
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*⑥ The shift in the center of gravity of the object being gripped can also affect the load, depending on factors such as the shape of the object, the material of the contact surface, friction, and the acceleration of movement. If you have any questions, please feel free to contact us.

*⑦ Requires external communication convertor or customization, please contact sales or technical support.

*⑧ When selecting the power supply, please select according to the peak current. If the current is lower than the parameter, it will cause the product can not work normally.

Technical Drawings



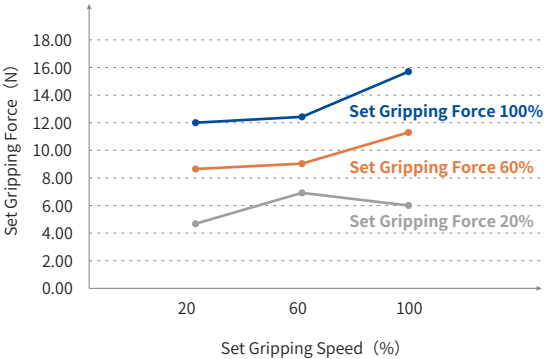
Gripping CT Reference Table

Test Type	Gripping Time (ms) [Impact, gripped object, target position set to 0, 50% force, 100% speed]				Gripping Time (ms) [Impact, gripped object, target position set to 0, 100% force, 100% speed]			
	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm	Full Stroke Clamping	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm	Full Stroke Clamping
PGEA-15-26	172	215	298	376	168	208	269	329
PGEA-50-26	177	244	413	571	142	190	306	452
PGEA-100-26	222	303	508	646	151	198	327	447

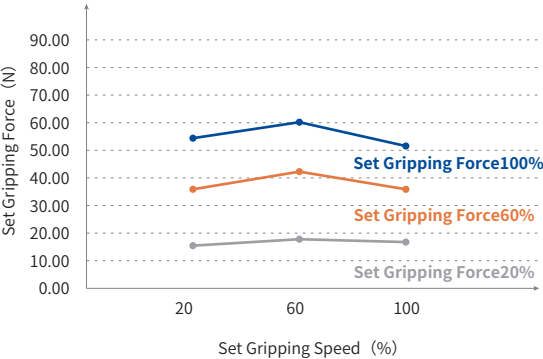
Test Type	Opening Time (ms) [50% force, 100% speed to position]				Opening Time (ms) [100% force, 100% speed to position]			
	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm	Full Stroke Clamping	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm	Full Stroke Clamping
PGEA-15-26	238	267	331	372	228	251	300	323
PGEA-50-26	240	307	473	566	237	273	383	447
PGEA-100-26	254	333	536	641	236	274	383	441

Actual Output Reference Curve for Different Force and Speed

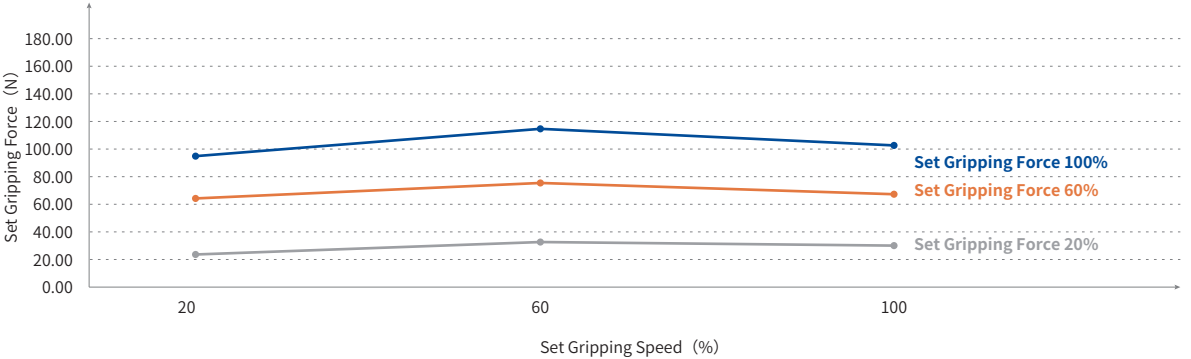
PGEA-15-26



PGEA-50-26

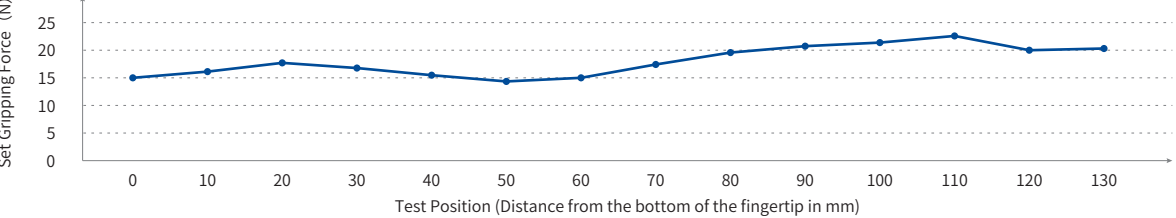


PGEA-100-26

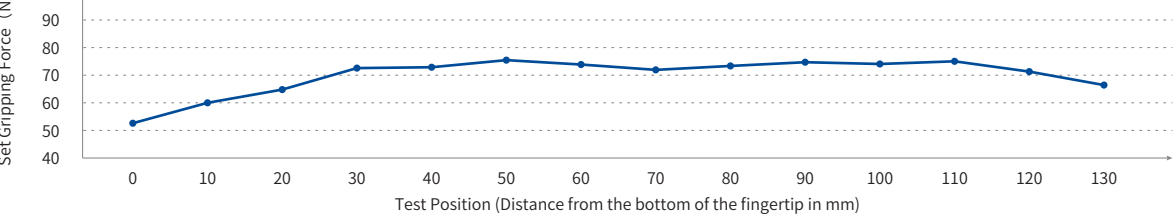


Gripping Distance Force Decay Reference Curve

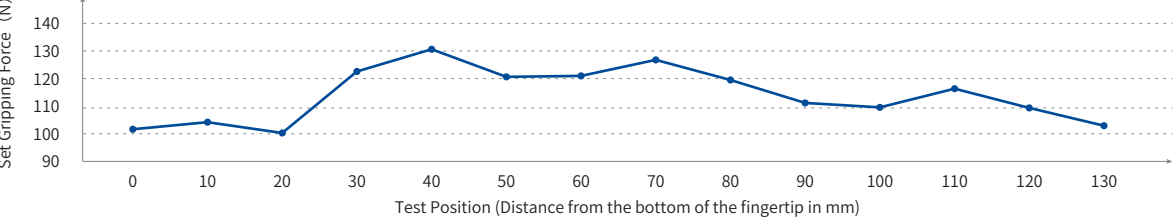
PGEA-15-26 Finger Length and Gripping Force Test



PGEA-50-26 Finger Length and Gripping Force Test



PGEA-100-26 Finger Length and Gripping Force Test



Gripping Distance Oscillation Reference Curve

