

Slim-type Electric Parallel Gripper



Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection
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*① I/O(NN): NPN/NPN I/O(PP): PNP/PNP I/O(NP): NPN/PNP I/O(PN): PNP/PNP
 *② It is recommended that no more than 4 units of DH-Robotics products be accessed on a single 485 bus, otherwise 485 communication anomalies may occur.
 *③ When selecting a model with a brake, the gripper can maintain a certain gripping force after power-off, preventing materials from falling. "Power-off" here refers to cutting off the 220V power supply, at which point the gripping force will decrease to 85% of the powered-on level.

*④	C01 Elite CS SIASUN Hanwha A DOBOT CR DOBOT Nova UR CB UR E	C02 JAKA
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*5

F1 F2 F3 F4

					
Build-in controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Self-locking Mechanism

*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.

Fz 150 N

Allowable Loading Moment

Mx 4.5 N·m

Mv 5 N·m

Technical drawings of the PG15-50 brake assembly, showing front, side, and end views with dimensions and part numbers.

Front View (Top):

- Overall width: 78
- Overall height: 20
- Mounting holes: 4-M3x5
- Dimension lines: $\phi 3 \pm 0.02$, $\sqrt{3.2}$
- Internal dimensions: 10, 20, 3.50

Front View (Bottom):

- Overall width: 29
- Overall height: 73.80
- Mounting holes: 2-M4x5
- Dimension lines: $\phi 3 \pm 0.02$, $\sqrt{3.2}$
- Internal dimensions: 16, 10.50, 2-3.50, 8, 16.50

Side View (Left):

- Overall width: 78
- Overall height: 55
- Mounting holes: 4-M3x5
- Dimension lines: $\phi 3 \pm 0.02$, $\sqrt{3.2}$
- Internal dimensions: 20, 10, 3.50, 20
- Note: "Same on the opposite side"

Side View (Right):

- Overall width: 24
- Overall height: 79.40
- Mounting holes: 2-M4x5
- Dimension lines: $\phi 3 \pm 0.02$, $\sqrt{3.2}$
- Internal dimensions: 20, 13, 20

End View (Bottom):

- Overall width: 28
- Overall height: 6
- Mounting holes: 2-M4x5
- Dimension lines: $\phi 3 \pm 0.02$, $\sqrt{3.2}$
- Note: "Same on the opposite side"

Part Numbers:

- PG15-50 Without Brake: 118
- PG15-50 With Brake: 138

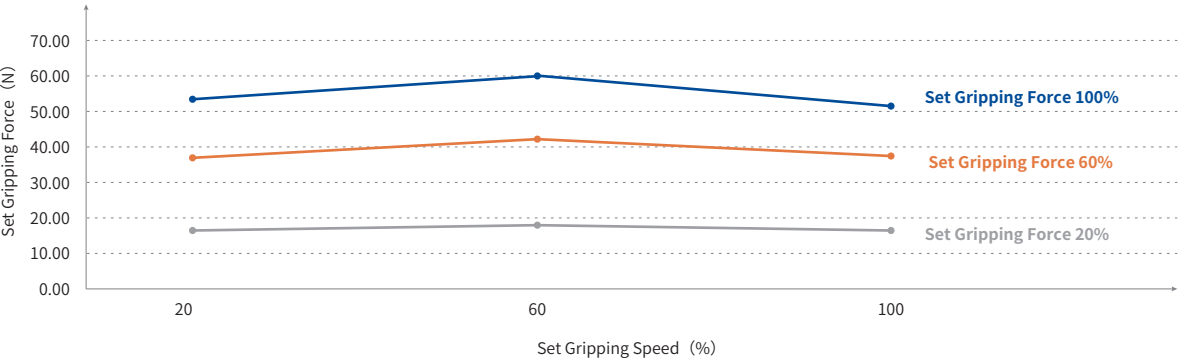
Gripping CT Reference Table

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	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm
PGEA-15-40	172	215	298	168	208	269
PGEA-50-40	177	244	413	142	190	306
PGEA-100-40	222	303	508	151	198	327

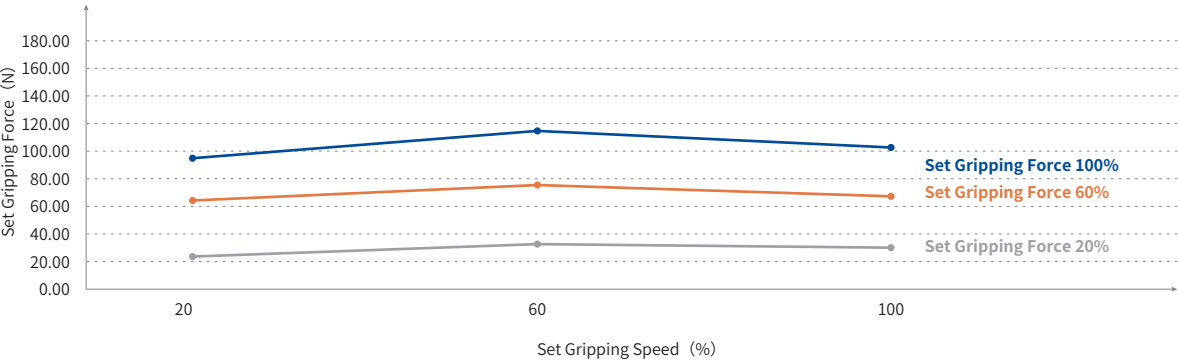
Test Type	Opening Time (ms) [50% force, 100% speed to position]			Opening Time (ms) [100% force, 100% speed to position]		
	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm	Side Avoidance 3mm	Side Avoidance 5mm	Side Avoidance 10mm
PGEA-15-40	238	267	331	228	251	300
PGEA-50-40	240	307	473	237	273	383
PGEA-100-40	254	333	536	236	274	383

Actual Output Reference Curve for Different Force and Speed

PGEA-50-40

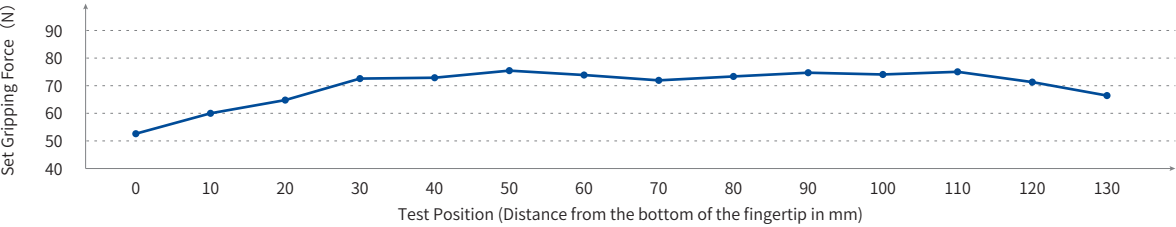


PGEA-100-40

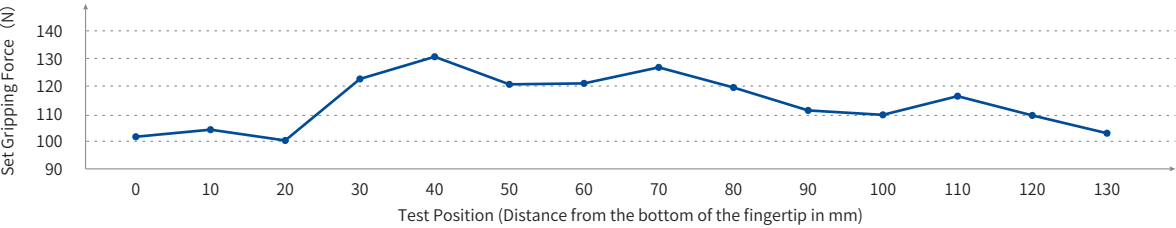


Gripping Distance Force Decay Reference Curve

PGEA-50-40 Finger Length and Gripping Force Test



PGEA-100-40 Finger Length and Gripping Force Test



Gripping Distance Oscillation Reference Curve

