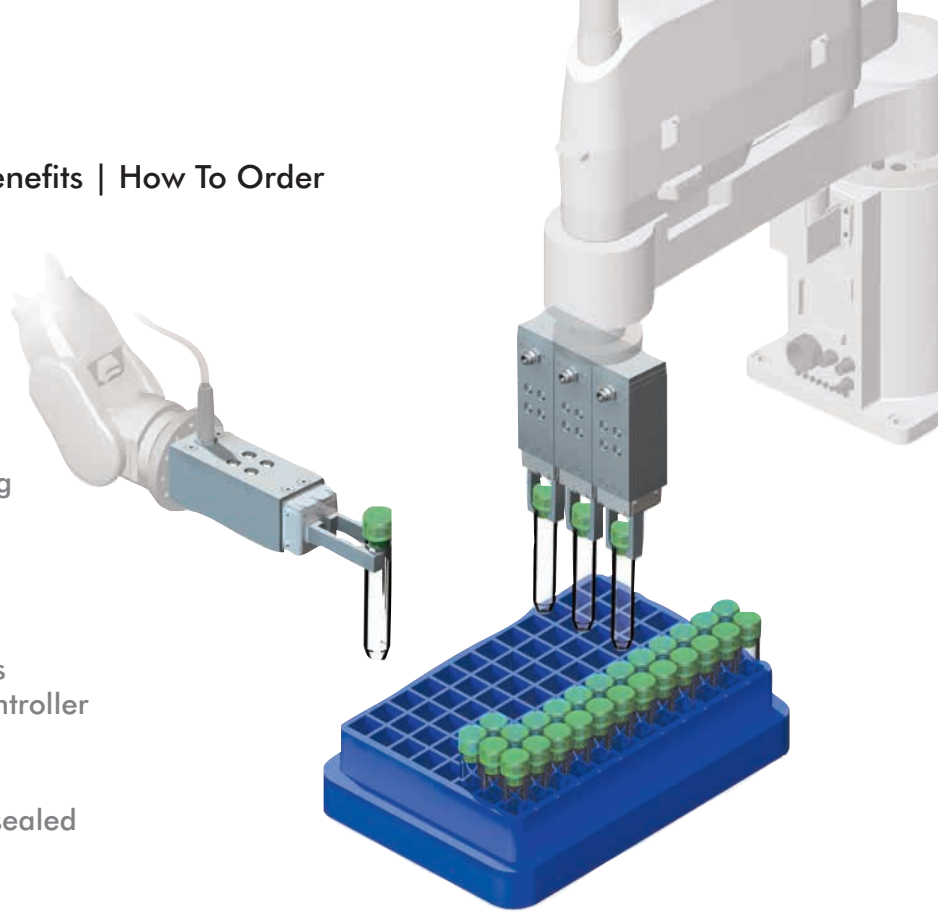


RPE-100 LIGHT-DUTY

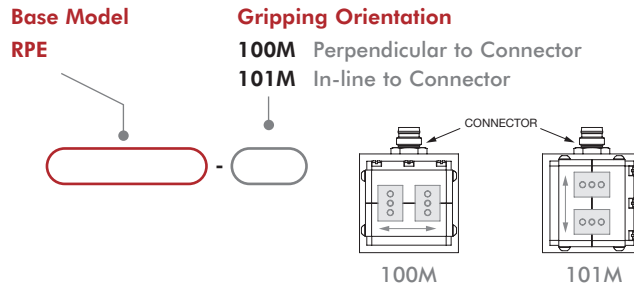
Electric Parallel Grippers | Features and Benefits | How To Order

Features:

- Ideal for semiconductor and life sciences laboratory applications
- Compact design allows several units mounted closely together to grip multiple parts simultaneously
- Fully integrated electronics, no programming or software. Operates from PLC discrete open/close commands
- Fail-safe operation with spring closed maintains full grip force upon power loss
- No programming required. Gripper actuates using a 50ms discrete pulse from PLC or controller
- Minimized finger backlash and side play with low friction Dual-V bearing system
- Maintenance free internally lubricated and sealed
- Clean room 100 rated IP54



How To Order



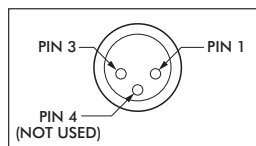
Accessories

Sensor Accessories	Part Number
Inductive Sensor Mounting Kit (Mounts 1 sensor)	OSMK-130
PNP Inductive Sensor with Quick Connect	OISP-019
NPN Inductive Sensor with Quick Connect	OISN-019
Quick Disconnect Sensor Cable, 2m long	CABL-010
Quick Disconnect Sensor Cable, 5m long	CABL-013

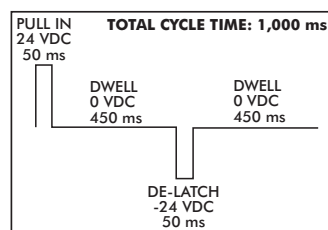
*Sensor and cable sold separately.

Electrical Interface: Pin Out

(Looking into the head of the connector on gripper)



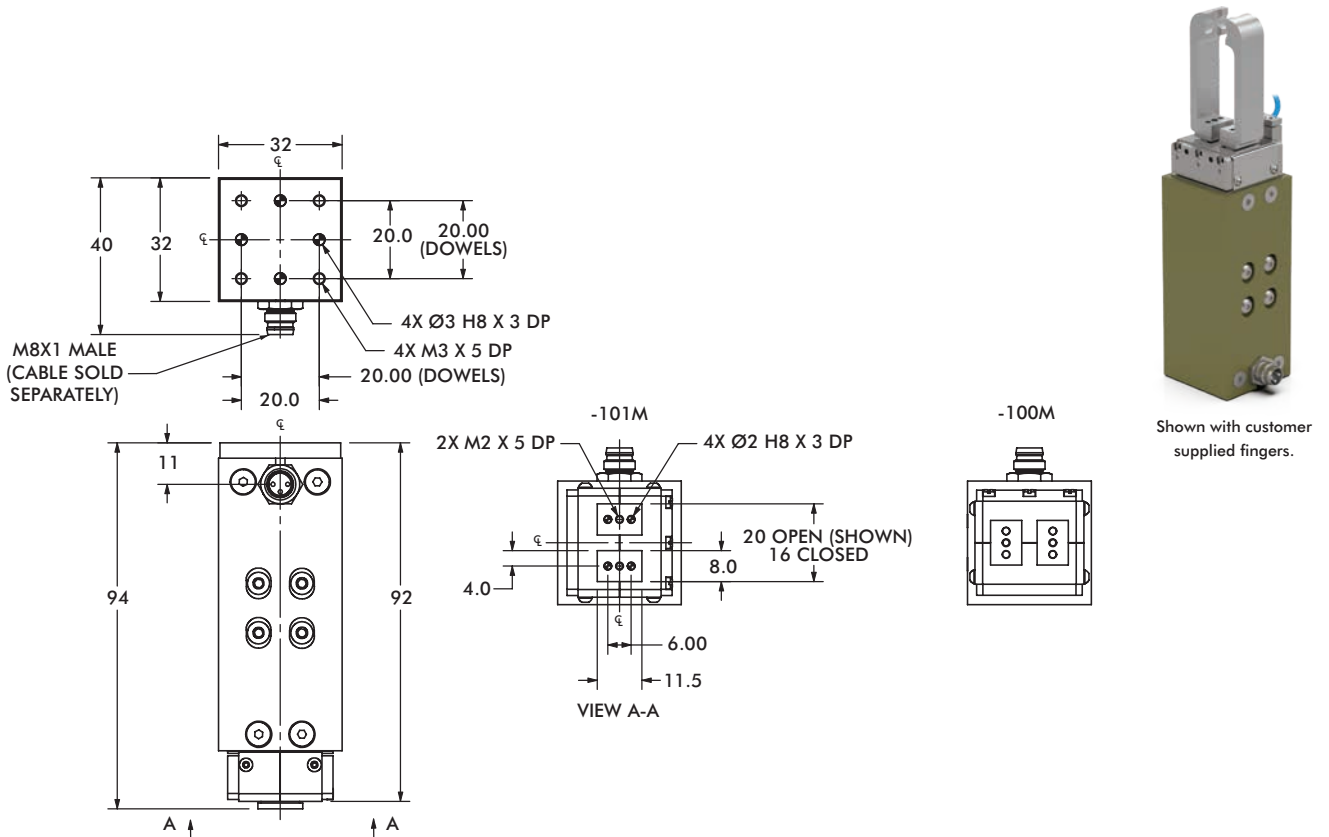
PIN ORIENTATION



TIMING DIAGRAM

RPE-100 LIGHT-DUTY

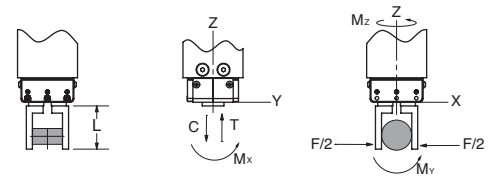
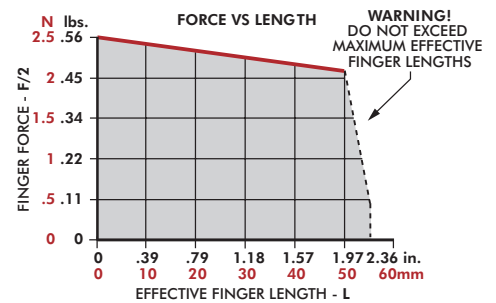
Electric Parallel Grippers | Dimensions and Technical Specifications



Specifications

Specifications	Units	RPE-100M/101M
Total Grip Force	N [lbf]	5 [1.1]
Stroke	mm [in]	4 [0.16]
Repeatability	mm [in]	±0.025 [0.001]
Accuracy	mm [in]	±0.051 [0.002]
Actuation Time	ms	100
Temperature Range	°C [°F]	5°~50° [40°~120°]
Power Requirement @ 100% duty cycle	W	40 (Peak)
Voltage	VDC	24
Current - Peak	amps	1.5 (max)
Current - Continuous	amps	0.175
Ingress Protection Class (IP)		IP54
Clean Room		100 (Krytox)
Weight	kg [lbs]	0.23 [0.50]
Max Finger Length	mm [in]	50 [1.90]
Durability	cycles	5 Million

Loading Information



	RPE-100, RPE-101	Static	Dynamic
Maximum Tensile T		59 N [13 lbs]	20 N [4.5 lbs]
Maximum Compressive C		59 N [13 lbs]	20 N [4.5 lbs]
Maximum Moment M _x		0.75 Nm [2.7 lbf-in]	0.3 Nm [6.6 lbf-in]
Maximum Moment M _y		1.2 Nm [10.6 lbf-in]	0.4 Nm [3.5 lbf-in]
Maximum Moment M _z		0.75 Nm [6.6 lbf-in]	1.1 Nm [9.7 lbf-in]

^tCapacities are per set of jaws and are not simultaneous

PRECISION PARALLEL GRIPPERS

2-Jaw Parallel Grippers | Product Overview

	Model	Stroke mm [in]	Grip Force N [lbs]	Operating Environment	Special Features	Page #
2P		10-50 [0.39-1.97]	432-11,475 [97-2579]	IP 54	Spring assist. Double force tandem cylinder option. Large choice of configurable options.	3
DGC		20-40 [0.79-1.57]	474-796 [106-179]	IP54 Using Purge Port	Rugged applications. Spring assist. DIRECTCONNECT	15
GC		50-60 [1.968-2.362]	1481-2318 [333-521]	IP54 Using Scavenge Port	Rugged applications. Spring assist.	15
DPL		40-140 [1.575-5.512]	618-2035 [138- 457]	IP54 Using Purge Port	Longest strokes in compact length. Long finger lengths. DIRECTCONNECT	23
DPP		6.35-50.8 [0.25-2]	111-934 [25-210]	IP43 Using Purge Port. Clean Room Class 10,000 ISO 7 Using Scavenge Port	Highest precision, low pressure applications. Zero side play with Dual-V bearing design. DIRECTCONNECT	33
RP-P		12.7-76.2 [0.5-3.0]	107-2224 [24-500]	IP33	Highest precision. Long finger lengths. Delicate parts handling.	39
RPL		6.4 -25.4 [0.25-1.0]	116-160 [26-36]	IP33	Low pressure applications, zero side play, Excellent repeatability, long finger lengths. Delicate parts Handling.	47
RPLC		6.4-25.4 [0.25-1.0]	116-160 [26-36]	IP64 Using Purge Port. Clean Room Class 10, ISO 4 Using Scavenge Port	Shielded for Clean or Harsh Environments. Low Pressure Applications, Zero Side Play. Excellent Repeatability	47

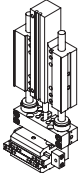
PRECISION PARALLEL GRIPPERS

2-Jaw Parallel Grippers | DIRECTCONNECT™ Modular Connectivity Chart

Modular DIRECTCONNECT Mounting Style Examples:

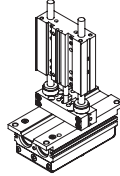
Products can be mounted in multiple positions. Refer to datasheet for complete info.

Slide to Gripper



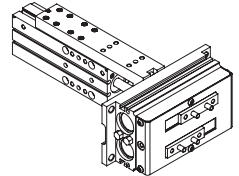
DLT Thruster Slide to DGC Parallel Gripper

Slide to Gripper



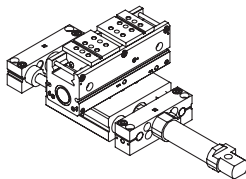
DLT Thruster Slide to DPL Parallel Gripper

Slide to Gripper



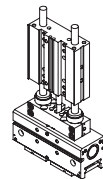
DLM Thruster Slide to DPL Parallel Gripper

Slide to Gripper



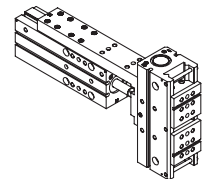
DLB Base Slide to DPP Parallel Gripper

Slide to Gripper



DLT Thruster Slide to DPP Parallel Gripper

Slide to Gripper



DLM Thruster Slide to DPP Parallel Gripper

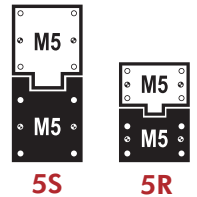
DIRECTCONNECT™

Mounting Compatibility Chart

DESTACO's DIRECTCONNECT™ technology, allows all components of the system—grippers and slides—to be mounted together directly. Look for matching icons on product datasheets for mounting compatibility.

Note: The numbers in the cell represent the metric screw size and basic mounting pattern.

S=Square, R=Rectangle. ie; 5S = M5 Screw with square mounting pattern.



Catalog Models		2 Jaw Precision Parallel Grippers					
		DGC	DPL-25XX	DPL-32XX, 40XX	DPP-10 & 14	DPP-20	DPP-28
Base Slides	DLB-06,08				3R		
	DLB-10,12,16	5R	5R			5R	5R
	DLB-20,25			10R			10R
Thruster Slides	DLT-06,08				3R		
	DLT-10,12,16	5R	5R		3R	5R	5R
	DLT-20,25	5R	5R	10R		5R	10R
	DLM-07				3R		
	DLM-9,12	5R	5R		3R	5R	5R