# PARALLEL PNEUMATIC GRIPPERS **PRECISION LOW PROFILE SERIES**





- Precision Gripping—Preloaded V Roller Bearings Eliminate Side Play Resulting in Excellent Part Positioning
- Class 10 Clean Room Rated with Corrosion Resistant Shield, Clean Room Grade Lubricant and Scavenge Port
- Components Protected by Stainless Steel Shield for Use in Harsh Environments
- Accuracy of 0.05 mm (0.002") and Repeatability of 0.03 mm (0.001")
- Rigid and Low Friction Design Allows for Longer Finger lengths for Use on Delicate Parts
- Non-Synchronous Motion Option Provides Independent Jaw Operation
- Up to 5 Million Cycles in Typical Operation and 10 Million with Maintenance
- Operating Temperature -35 to 80°C (-30 to 180°F)
- System Requires 0.3 to 7 bar (5 to 100 psi) Dry Filtered (40 Micron or Better) Air Supply
- Requires 4-Way. 2 Position Valve and Regulator for Delicate Parts

# **PRODUCT FEATURES**



The body has hard-coat anodize 60 RC with PTFE impregnation

#### **Pre-Load** Adjustment

Screws Adjustable preload screws allow for adjustment of preload on roller bearings

# Stainless Steel

**Screws** Provides protection against corrosion

**Preloaded Bearings** 

Roller bearings are preloaded for maximum support and zero side play

Self Lubricating Seals Self lubricating dynamic seals

(Buna-N only)

**One Piece Body** One piece lightweight aluminum body

**Dowel Holes** Slip fit dowel pin holes in body

DLT-10M-E-C-50, \$270, visit

omegamation.com

Mounting Holes

RPLC-2M,

\$393

### **Non-Synchronous Operation Available**

#### Clean-Room Lubrication

Units are lubricated with a clean-room grade grease

### Sensors

Reads position of jaw (Sold separately- see "Accessories" to order)

### Quality Components

Internal components are made from hardened bearing and tool steels. External components are made from corrosion resistant materials for resistance to de-ionized water or for use in FDA and medical parts handling applications

### **Stainless Steel Shields**

Stationary and non-contacting shields eliminate the possibility of particle generation

**Purge/Scavenge Port** For extreme environments from dry and gritty to clean-room Class 10 or better

**High Grip Force** High grip force with respect to weight due to extremely efficient drive mechanism

Patented Bearing Support "Dual-V" roller bearings provide low friction rolling motion

C-42

Accessory

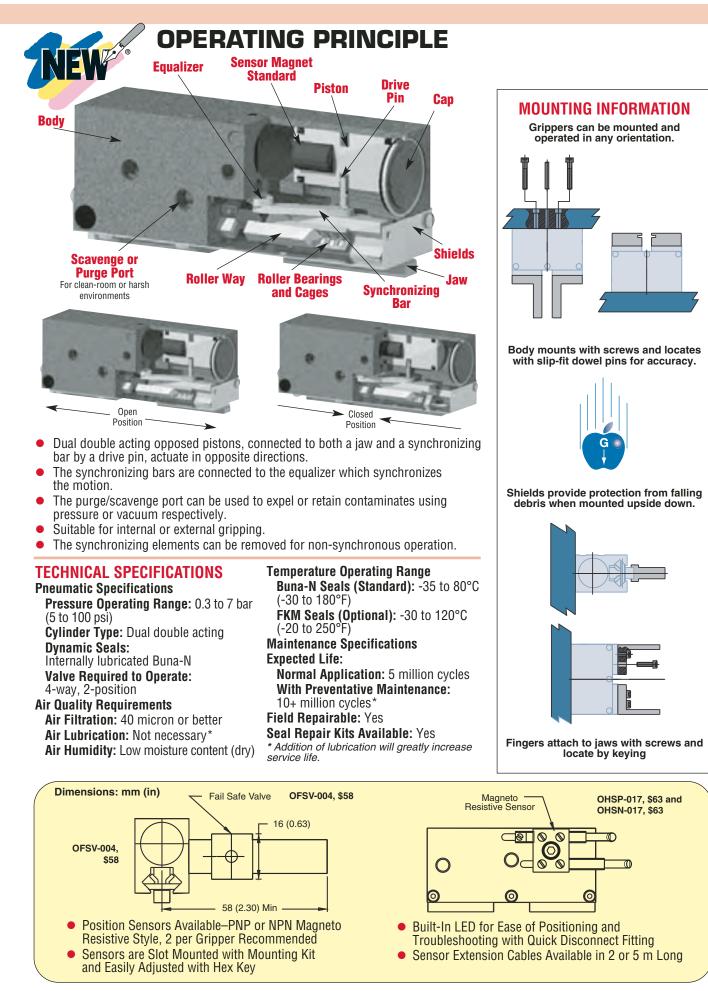
# DMEX-16-18, \$72, visit omegamation.com

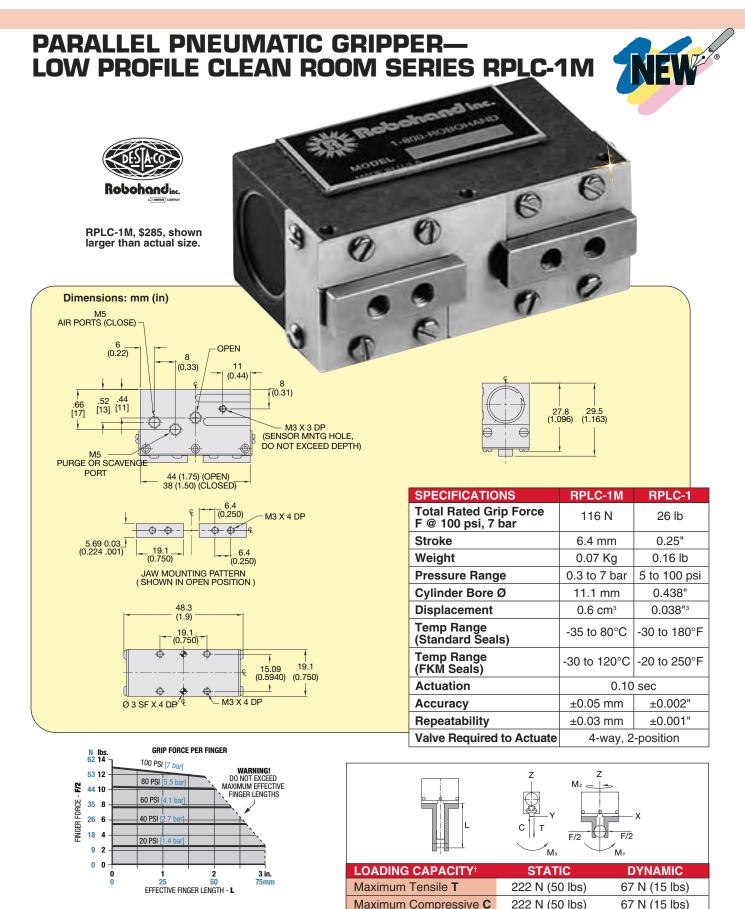
Note: Gripper fingers and

adapter plate shown are for reference only. Tooling is customers responsibility.

RPLC-3M, \$522

**Clean Room** and Harsh Environment







Capacities are per set of jaws and are not simultaneous

3.4 Nm (30"/lbs)

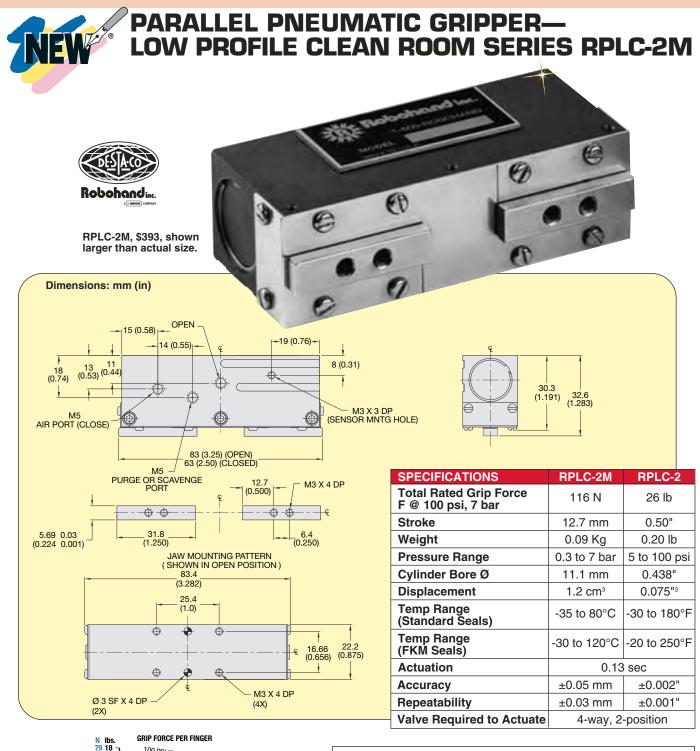
4.5 Nm (40"/lbs)

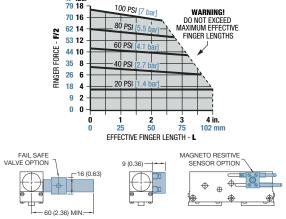
3.4 Nm (30"/lbs)

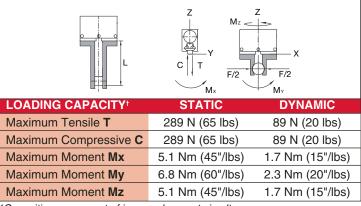
1.1 Nm (10"/lbs)

1.4 Nm (12"/lbs)

1.1 Nm (10"/lbs)

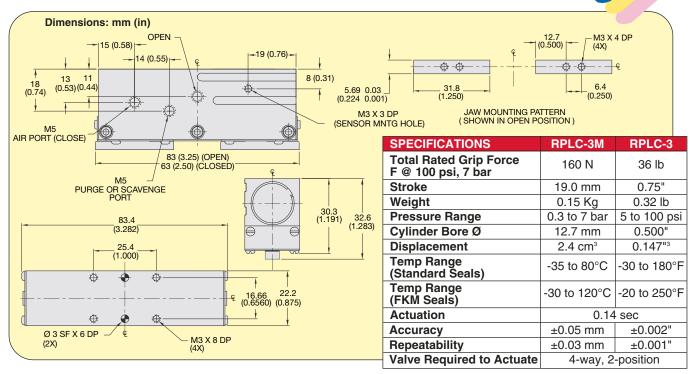


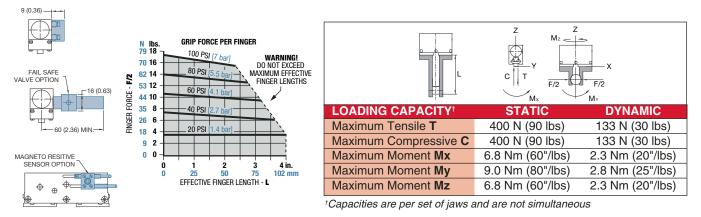




<sup>†</sup>Capacities are per set of jaws and are not simultaneous

# PARALLEL PNEUMATIC GRIPPER— LOW PROFILE CLEAN ROOM SERIES RPLC-3M





To Order (Specify Model Number) MOST POPULAR MODELS HIGHLIGHTED!								
MODEL NO.	PRICE	BODY LENGTH mm (in)	BODY HEIGHT mm (in)	BODY DEPTH mm (in)	STROKE mm (in)	GRIP FORCE @ (lbs)	WEIGHT Kg (lbs)	
RPLC-1M	\$285	48.3 (1.9)	29.5 (1.163)	19.1 (0.750)	6.4 (0.25)	116 (26)	0.07 (0.16)	
RPLC-2M	393	62.9 (2.475)	29.5 (1.163)	19.1 (0.750)	12.7 (0.05)	116 (26)	0.09 (0.20)	
RPLC-3M	522	83.4 (3.282)	32.6 (1.283)	22.2 (.875)	19.1 (0.75)	160 (36)	0.15 (0.32)	

Ordering Example: RPLC-2M mini pneumatic low profile gripper with jaw stoke of 12.7 mm (0.05") \$393. Recommended accessories include 2 sensors and mounting kit, along with a 4-way, 2-position valve. Temperature rating of -35 to 80°C (-30 to 180°F). Temperature range can be extended to -30 to 120°C (-20 to 250°F) with FKM seals. Add "-V" to the end of the part number and \$36. All models come with standard synchronous jaws, if non-synchronous jaws are required consult sales. Detailed specification and CAD drawings are available at omegamation.com.

#### ACCESSORIES

MODEL NO.	PRICE	QTY/UNIT	DESCRIPTION	
OSMK-008	\$15	1	Sensor mounting kit	
OHSN-017	63	1 or 2	NPN magneto resistive sensor short barrel with quick disconnect fitting	
OHSP-017	63	1 or 2	PNP magneto resistive sensor short barrel with quick disconnect fitting	
CABL-010	23	1 or 2	2 m (6') sensor extension cable with quick disconnect fitting	
CABL-013	26	1 or 2	5 m (16') sensor extension cable with quick disconnect fitting	
OFSV-004	58	1	M5 fail safe valve	

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## Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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## Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters