## **RPW SERIES**

### 2-Jaw Heavy-Duty Parallel Grippers | Features and Benefits | How To Order

#### Features:

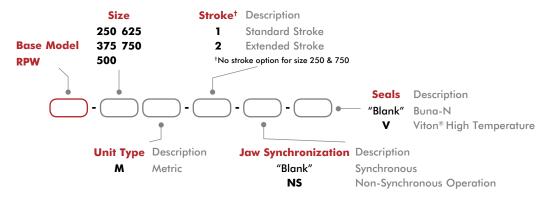
- Robust wide body gripper
- Grip force ranges from 222N thru 2091N
- Strokes range from 19mm thru 114mm
- Rack and pinion design for smooth operation
- Jaws well supported to grip large and wide parts
- Double rod seals for extended life in harsh environments
- Optional non-synchronous jaw operation

## Applications:

- Wide part gripping
- Gantry systems
- Harsh gripping environment



#### How To Order



#### Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
Sensor Mounting Kit for Imperial & Metric Units (mounts 2 sensors)	See Datash	eet	1
PNP Inductive Sensor with Quick Disconnect*	250, 375, 500	OISP-014	1-2
NPN Inductive Sensor with Quick Disconnect*	250, 375, 500	OISN-014	1-2
PNP Inductive Sensor with Quick Disconnect*	625, 750	OISP-011	1-2
NPN Inductive Sensor with Quick Disconnect*	625, 750	OISN-011	1-2
Quick Disconnect 2 Meter Cable Length*	All Models	CABL-010	1-2
Quick Disconnect 5 Meter Cable Length*	All Models	CABL-013	1-2

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
Fail Safe Valve (Imperial)	250, 375	OFSV-001	1
Fail Safe Valve (Metric)	250, 375	OFSV-004	1
Fail Safe Valve (Imperial)	500, 625, 750	OFSV-002	1
Fail Safe Valve (Metric)	500, 625, 750	OFSV-005	1

<sup>\*</sup>Sensor and cable sold separately.





## 2-Jaw Heavy-Duty Parallel Grippers | Technical Specifications

Specifications	Units	250	375-1	375M-2		
Total Rated Grip Force <b>F</b> @ 100 psi	N [lbs]	222 [50]	400	[90]		
Total Stroke	mm [in]	19.1 [0.75]	25.4 [1.00]	50.8 [2.00]		
Weight	kg [lbs]	0.30 [0.66]	0.59 [1.3]	0.91 [2.0]		
Pressure Range	bar [psi]	3-7 [40-100]				
Ingress Protection Class (IP)		IP54				
Displacement cm³ [i		3.8 [0.023]	9.8 [0.600]	19.7 [1.200]		
Temperature Range (Buna-N seals)	°C [°F]		-35°~80° [-30°~180°]			
Temperature Range (Viton® seals)	°C [°F]		-30°~150° [-20°~300°]			
Actuation	sec	0.16	0.20	0.25		
Accuracy	mm [in]	±0.05 [±0.002]				
Repeatability	mm [in]	±0.03 [±0.001]				
Valve to Actuate Double Acting		4-way, 2-position				

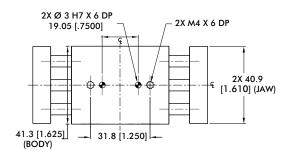
Specifications	Units	500-1	500-2			
Total Rated Grip Force <b>F</b> @ 100 psi	N [lbs]	667 [150]				
Total Stroke	mm [in]	38.1 [1.50]	63.5 [2.50]			
Weight	kg [lbs]	1.4 [3.0]	1.85 [4.0]			
Pressure Range	bar [psi]	3-7 [40-100]				
Ingress Protection Class (IP)		IP54				
Displacement	cm³ [in³]	29.5 [1.800]	49.2 [3.000]			
Temperature Range (Buna-N seals)	°C [°F]	-35°~80° [·	-30°~180°]			
Temperature Range (Viton® seals)	°C [°F]	-30°~150°	[-20°~300°]			
Actuation	sec	0.25	0.33			
Accuracy	mm [in]	±0.08 [±0.003]				
Repeatability	mm [in]	±0.03 [±0.001]				
Valve to Actuate Double Acting		4-way, 2-position				

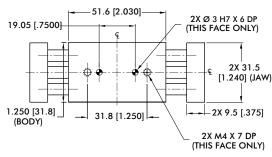
Specifications	Units	625-1	625-2	750	
Total Rated Grip Force <b>F</b> @ 100 psi	N [lbs]	1068 [240]		2091 [470]	
Total Stroke	mm [in]	50.8 [2.00]	88.9 [3.50]	114.3 [4.50]	
Weight	kg [lbs]	3.0 [6.5]	3.6 [7.8]	6.4 [14]	
Pressure Range	bar [psi]	3-7 [40-100]			
Ingress Protection Class (IP)		IP54			
Displacement	cm³ [in³]	21.6 [1.320] 37.9 [2.310] 232.7		232.7 [14.200]	
Temperature Range (Buna-N seals)	°C [°F]		-35°~80° [-30°~180°]		
Temperature Range (Viton® seals)	°C [°F]		-30°~150° [-20°~300°]		
Actuation	sec	0.52 0.69		1.00	
Accuracy	mm [in]	±0.08 [±0.003]			
Repeatability	mm [in]	±0.03 [±0.001]			
Valve to Actuate Double Acting		4-way, 2-position			

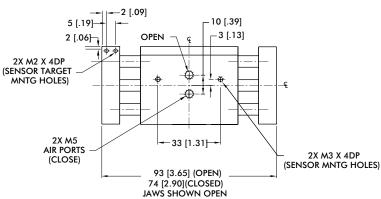


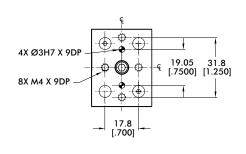
## **RPW-250M**

## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications





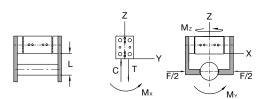




Sensor Accessories	250
Inductive Sensor Mtg Kit (2 Sensors)	OSMK-009
Seal Repair Kits	250
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Buna-N Seal Repair Kit	SLKT-055

## **Loading Information**



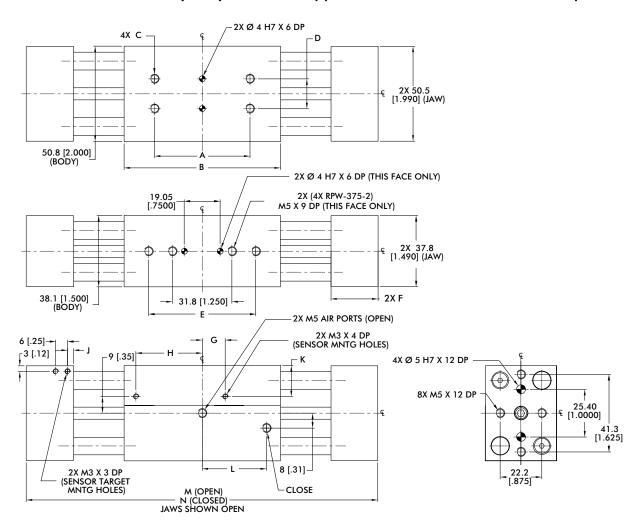


RPW-250M	Static	Dynamic
Maximum Tensile <b>T</b>	[50 lb] 222 N	[10 lb] 44 N
Maximum Compressive C	[50 lb] 222 N	[10 lb] 44 N
Maximum Moment $M_X$	[100 in-lb] 11 Nm	[20 in-lb] 2 Nm
Maximum Moment My	[150 in-lb] 17 Nm	[30 in-lb] 3 Nm
Maximum Moment M <sub>X</sub>	[100 in-lb] 11 Nm	[20 in-lb] 2 Nm

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



## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

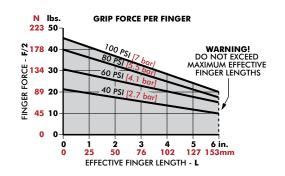


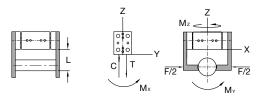
Sensor Accessories	375
Inductive Sensor Mtg Kit for 375-1 (2 Sensors)	OSMK-010
Inductive Sensor Mtg Kit for 375-2 (2 Sensors)	OSMK-011

Seal Repair Kits	375
Buna-N Seal Repair Kit	SLKT-056
Viton® Seal Repair Kit	SLKT-056V

Model	А	В	С	D	E	F	G	Н	J	K	L	M	N
RPW-375M-1	19.05 [0.7500]	19.0 [0.750]	M4 x 6 DP [#8-32 x.25 DP]	19.05 [0.7500]		18.8 [0.740]	13 [0.52]	22 [0.85]	3 [0.12]	9 [0.35]	21 [0.81]	120 [4.74]	95 [3.74]
RPW-375M-2	50.8 [2.000]	83.3 [3.280]	M5 x 6 DP [#10-32 x.25 DP]	15.88 [0.6250]	57.2 [2.250]	25.1 [0.990]	12 [0.49]	35 [1.39]	3 [0.13]	17 [0.65]	34 [1.35]	187 [7.38]	136 [5.38]

## **Loading Information**





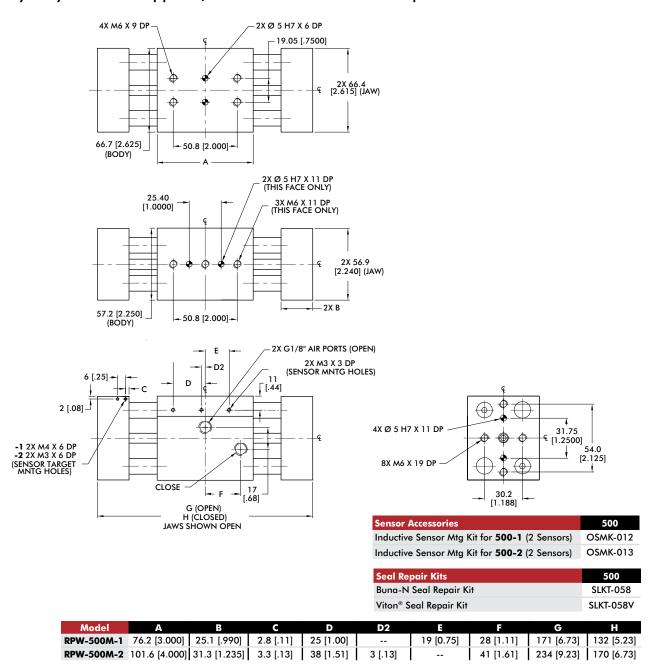
RPW-375M	Static	Dynamic
Maximum Tensile <b>T</b>	[100 lb] 445 N	[20 lb] 89 N
Maximum Compressive C	[100 lb] 445 N	[20 lb] 89 N
Maximum Moment $M_X$	[175 in-lb] 20 Nm	[35 in-lb] 4 Nm
Maximum Moment My	[250 in-lb] 28 Nm	[50 in-lb] 6 Nm
Maximum Moment M <sub>X</sub>	[175 in-lb] 20 Nm	[35 in-lb] 4 Nm
	1	-

†Capacities are per set of jaws and are not simultaneous

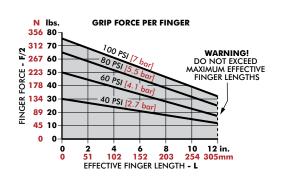


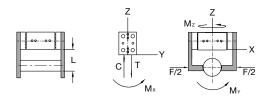
## **RPW-500M**

### 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

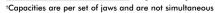


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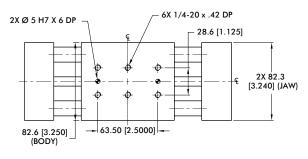


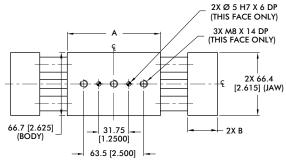
Static	Dynamic
[500 lb] 2224 N	[50 lb] 222 N
[500 lb] 2224 N	[50 lb] 222 N
[500 in-lb] 57 Nm	[50 in-lb] 6 Nm
[750 in-lb] 85 Nm	[75 in-lb] 8 Nm
[500 in-lb] 57 Nm	[50 in-lb] 6 Nm
	[500 lb] 2224 N [500 lb] 2224 N [500 in-lb] 57 Nm [750 in-lb] 85 Nm

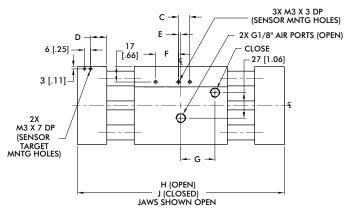


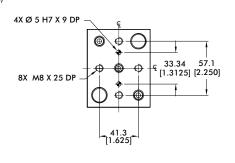


## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications









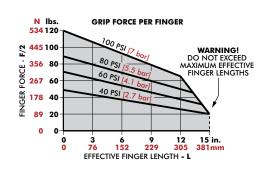
Sensor Accessories

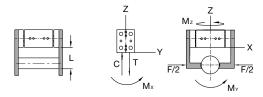
Inductive Sensor Mtg Kit (2 Sensors)	OSMK-074
Seal Repair Kits	625
Buna-N Seal Repair Kit	SLKT-071
Viton® Seal Repair Kit	SLKT-071V

Model	Α	В	C	D	E	F	G	н	J
RPW-625M-1	98.4 [3.875]	31.4 [1.235]	14 [0.55]	17 [0.66]	2 [0.08]	24 [0.96]	36 [1.42]	219 [8.63]	168 [6.63]
RPW-625M-2	136.5 [5.375]	44.1 [1.735]	15 [0.61]	5 [0.21]	9 [0.37]	43 [1.71]	55 [2.17]	321 [12.63]	232 [9.13]

## **Loading Information**

625





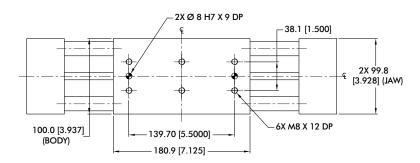
RPW-625M	Static	Dynamic
Maximum Tensile <b>T</b>	[1200 lbs] 5338 N	[125 lbs] 556 N
Maximum Compressive C	[1200 lbs] 5338 N	[125 lbs] 556 N
Maximum Moment $M_X$	[1000 in-lbs] 113 Nm	[100 in-lbs] 11 Nm
Maximum Moment My	[1500 in-lbs] 170 Nm	[125 in-lbs] 14 Nm
Maximum Moment M <sub>X</sub>	[1000 in-lbs] 113 Nm	[100 in-lbs] 11 Nm

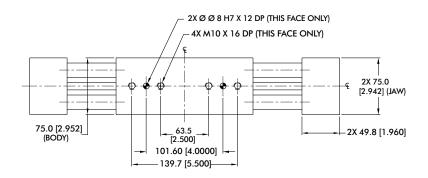
\*Capacities are per set of jaws and are not simultaneous

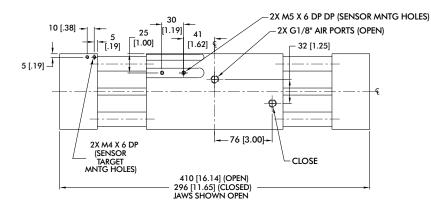


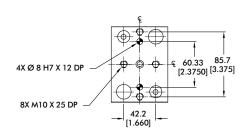
## **RPW-750M**

## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications



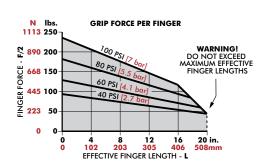


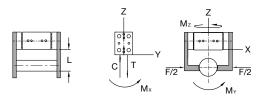




Sensor Accessories	750
Inductive Sensor Mtg Kit (2 Sensors)	OSMK-014
Seal Repair Kits	750
Buna-N Seal Repair Kit	SLKT-060
Viton® Seal Repair Kit	SLKT-060V

## **Loading Information**





RPW-750M	Static	Dynamic		
Maximum Tensile <b>T</b>	11121 N [2500 lb]	1112 N [250 lb]		
Maximum Compressive C	11121 N [2500 lb]	1112 N [250 lb]		
Maximum Moment $M_X$	226 Nm [2000 in-lb]	22 Nm [200 in-lb]		
Maximum Moment My	339 Nm [3000 in-lb]	28 Nm [250 in-lb]		
Maximum Moment M <sub>X</sub>	226 Nm [2000 in-lb]	22 Nm [200 in-lb]		
<sup>†</sup> Capacities are per set of jaws and are not simultaneous				





# HEAVY-DUTY PARALLEL GRIPPERS

Notes

