

# RPW SERIES

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

### Features:

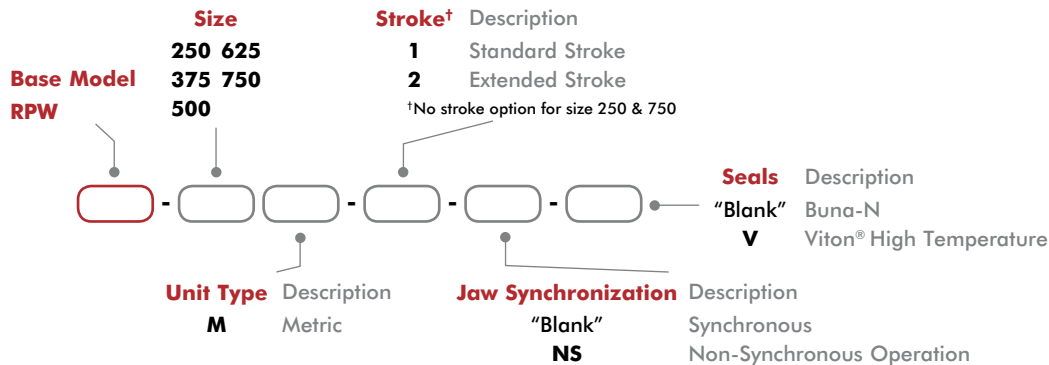
- Robust wide body gripper
- Grip force ranges from 222N thru 2091N
- Strokes range from 19mm thru 114mm
- Rack and pinion design for smooth operation
- Jaws well supported to grip large and wide parts
- Double rod seals for extended life in harsh environments
- Optional non-synchronous jaw operation



### 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 Datasheet		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

\* Sensor and cable sold separately.

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

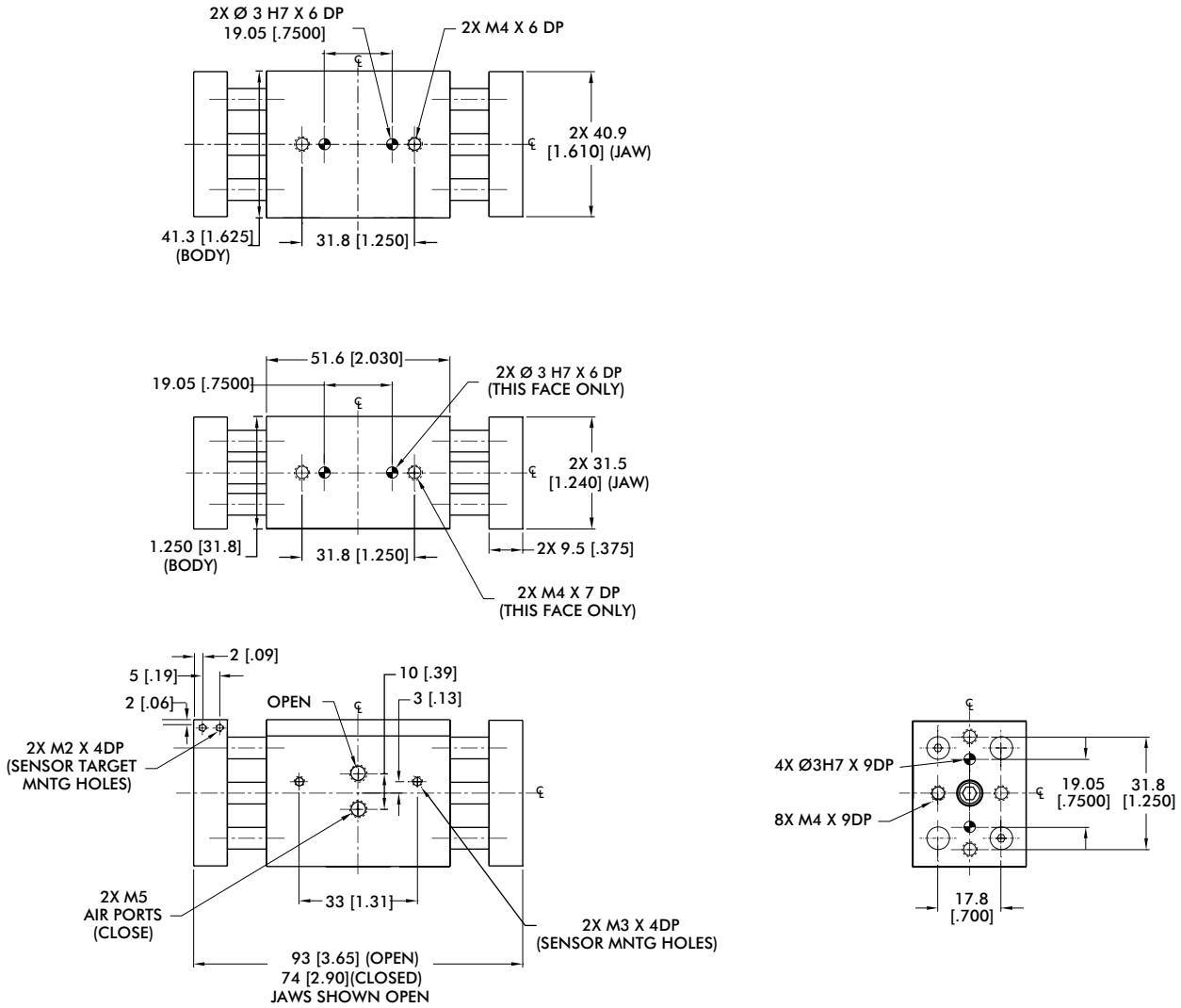
Specifications	Units	250	375-1	375M-2
Total Rated Grip Force <b>F</b> @ 100 psi	N [lbs]	222 [50]	400 [90]	
Total Stroke	mm [in]	19.1 [0.75]	25.4 [1.00]	50.8 [2.00]
Weight	kg [lbs]	0.30 [0.66]	0.59 [1.3]	0.91 [2.0]
Pressure Range	bar [psi]	3-7 [40-100]		
Ingress Protection Class (IP)		IP54		
Displacement	cm <sup>3</sup> [in <sup>3</sup> ]	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	cm <sup>3</sup> [in <sup>3</sup> ]	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	cm <sup>3</sup> [in <sup>3</sup> ]	21.6 [1.320]	37.9 [2.310]	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		

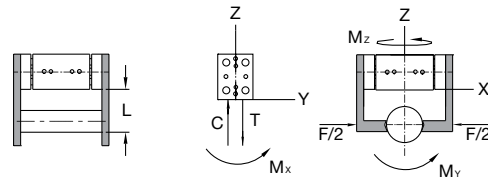
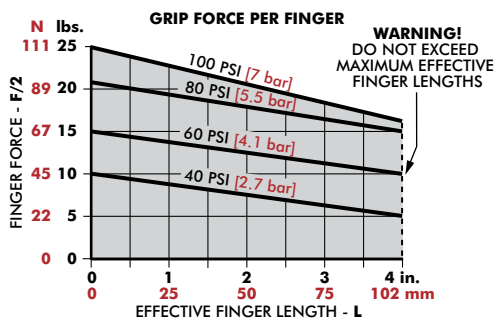
# RPW-250M

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



<b>Sensor Accessories</b>	<b>250</b>
Inductive Sensor Mtg Kit (2 Sensors)	OSMK-009
<b>Seal Repair Kits</b>	<b>250</b>
Buna-N Seal Repair Kit	SLKT-055
Viton® Seal Repair Kit	SLKT-055V

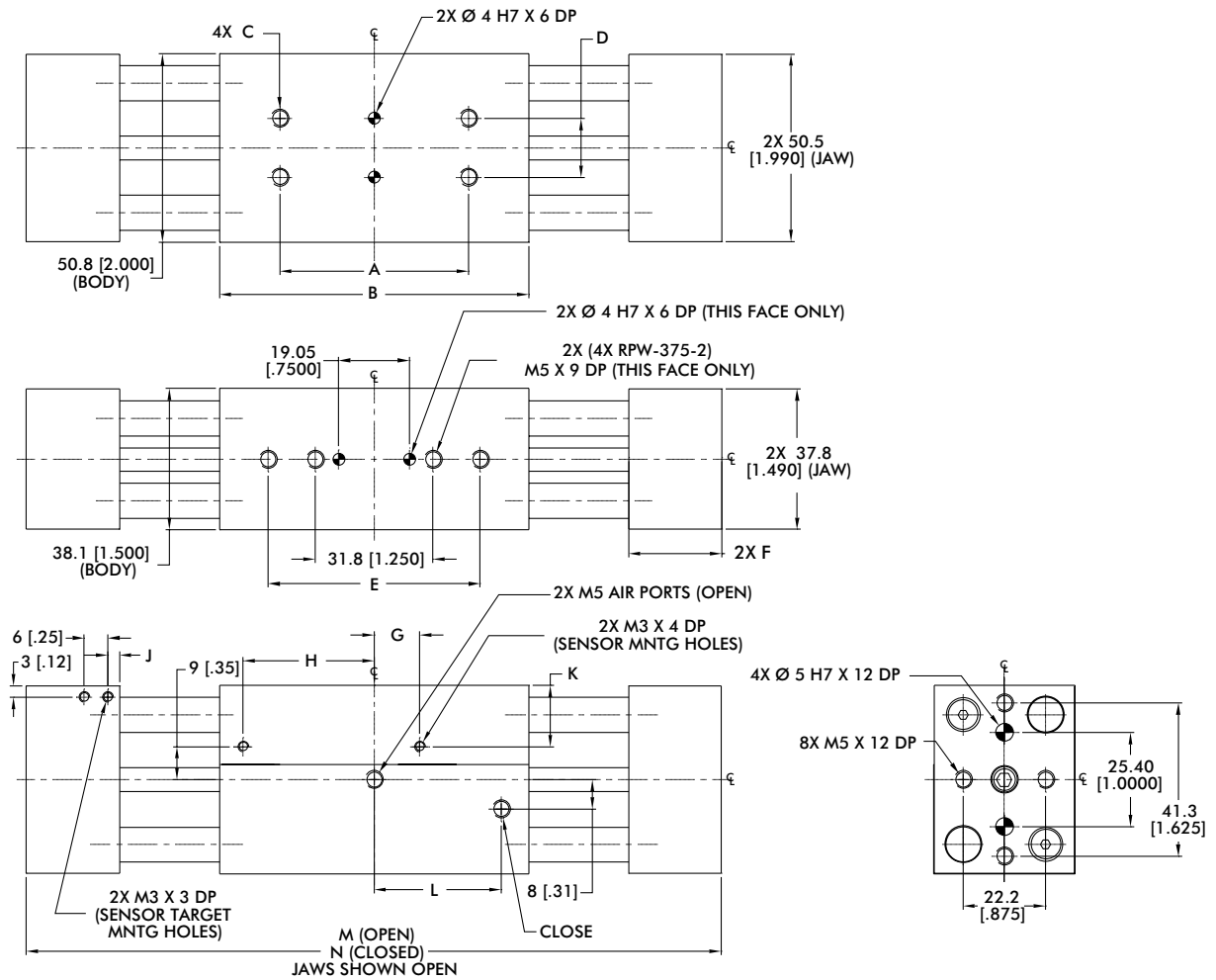
## Loading Information



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

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

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

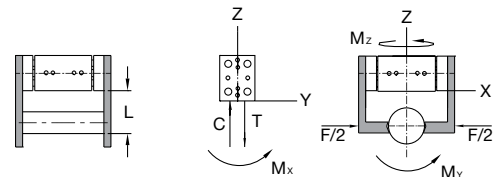
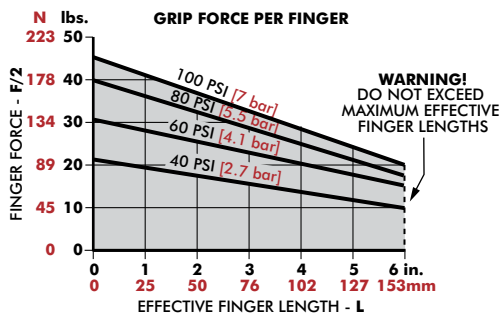


Sensor Accessories	375
Inductive Sensor Mtg Kit for <b>375-1</b> (2 Sensors)	OSMK-010
Inductive Sensor Mtg Kit for <b>375-2</b> (2 Sensors)	OSMK-011

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

Model	A	B	C	D	E	F	G	H	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

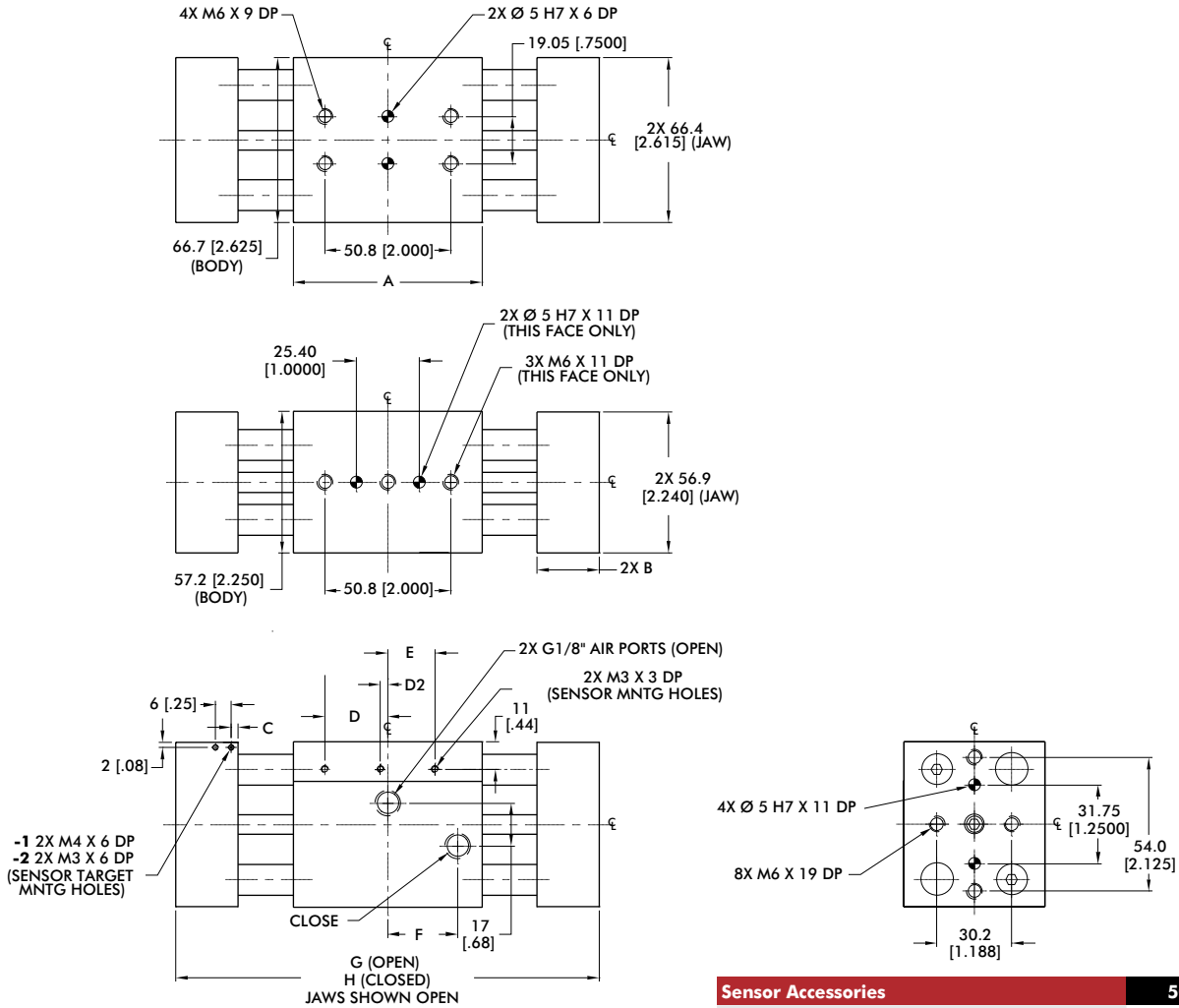


RPW-375M	Static	Dynamic
Maximum Tensile <b>T</b>	[100 lb] 445 N	[20 lb] 89 N
Maximum Compressive <b>C</b>	[100 lb] 445 N	[20 lb] 89 N
Maximum Moment $M_x$	[175 in-lb] 20 Nm	[35 in-lb] 4 Nm
Maximum Moment $M_y$	[250 in-lb] 28 Nm	[50 in-lb] 6 Nm
Maximum Moment $M_z$	[175 in-lb] 20 Nm	[35 in-lb] 4 Nm

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# RPW-500M

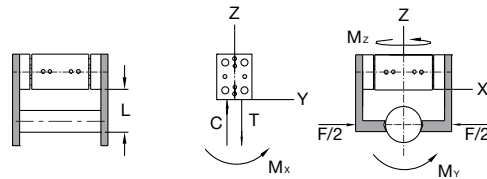
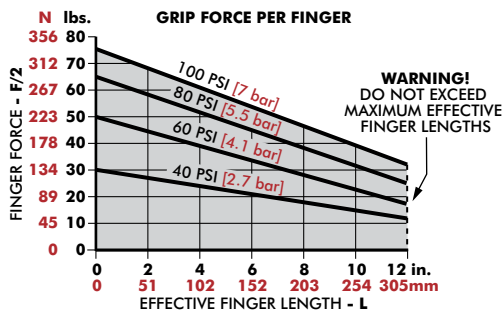
## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications



Sensor Accessories		500
Inductive Sensor Mtg Kit for <b>500-1</b> (2 Sensors)		OSMK-012
Inductive Sensor Mtg Kit for <b>500-2</b> (2 Sensors)		OSMK-013
Seal Repair Kits		500
Buna-N Seal Repair Kit		SLKT-058
Viton® Seal Repair Kit		SLKT-058V

Model	A	B	C	D	D2	E	F	G	H
RPW-500M-1	76.2 [3.000]	25.1 [0.990]	2.8 [0.11]	25 [1.00]	--	19 [0.75]	28 [1.11]	171 [6.73]	132 [5.23]
RPW-500M-2	101.6 [4.000]	31.3 [1.235]	3.3 [0.13]	38 [1.51]	3 [0.13]	--	41 [1.61]	234 [9.23]	170 [6.73]

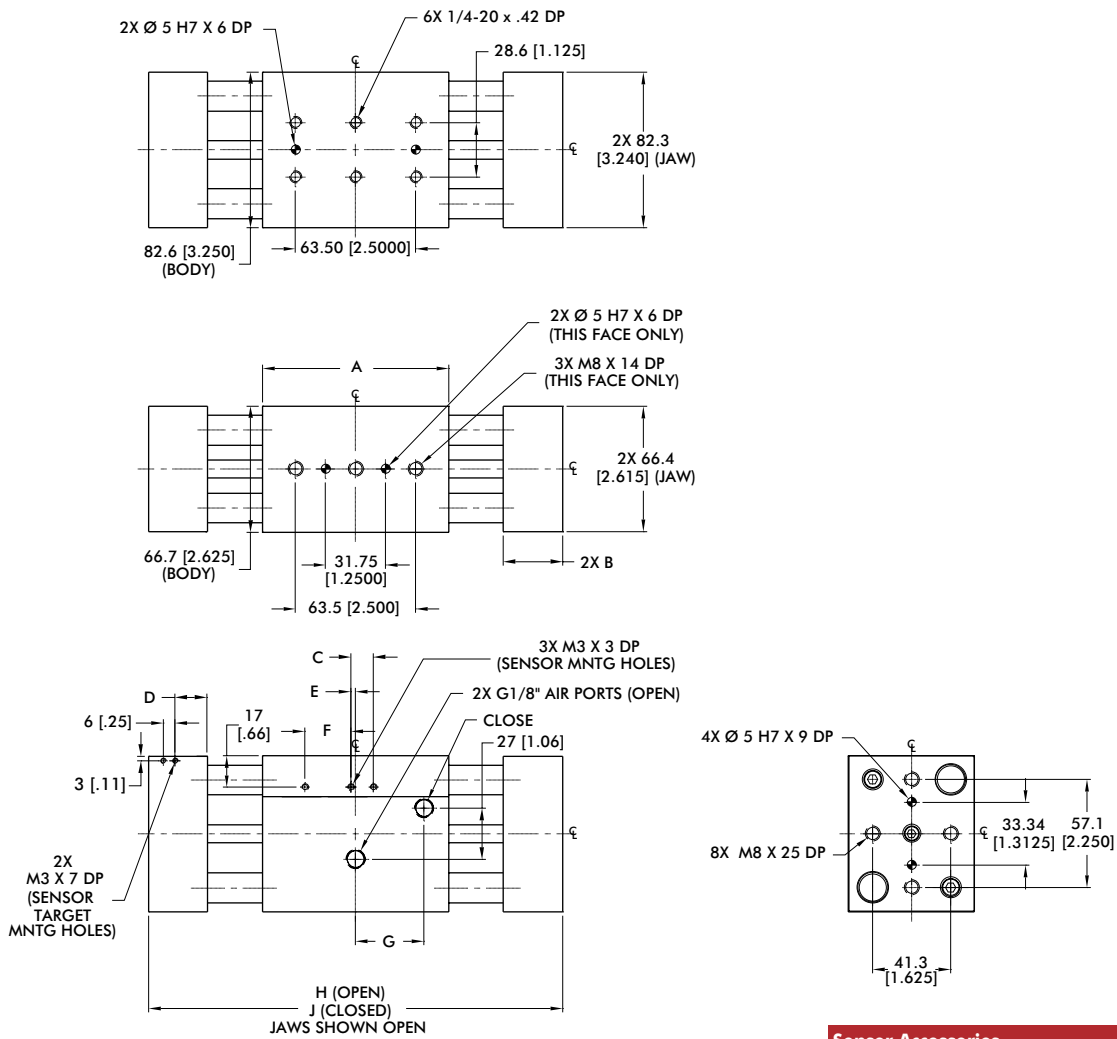
### Loading Information



RPW-500M	Static	Dynamic
Maximum Tensile <b>T</b>	[500 lb] 2224 N	[50 lb] 222 N
Maximum Compressive <b>C</b>	[500 lb] 2224 N	[50 lb] 222 N
Maximum Moment <b>M<sub>x</sub></b>	[500 in-lb] 57 Nm	[50 in-lb] 6 Nm
Maximum Moment <b>M<sub>y</sub></b>	[750 in-lb] 85 Nm	[75 in-lb] 8 Nm
Maximum Moment <b>M<sub>z</sub></b>	[500 in-lb] 57 Nm	[50 in-lb] 6 Nm

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

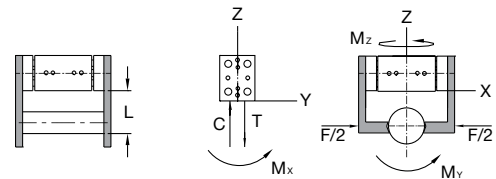
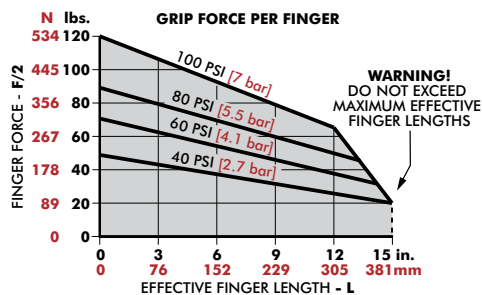
## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications



Sensor Accessories		625
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	A	B	C	D	E	F	G	H	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

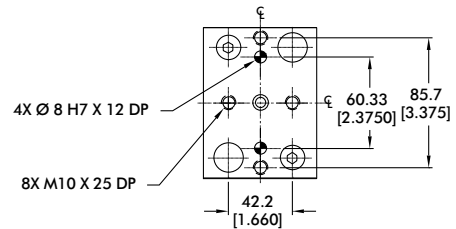
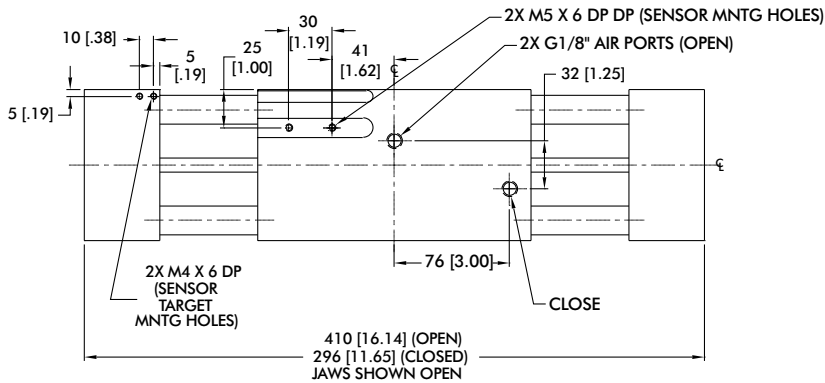
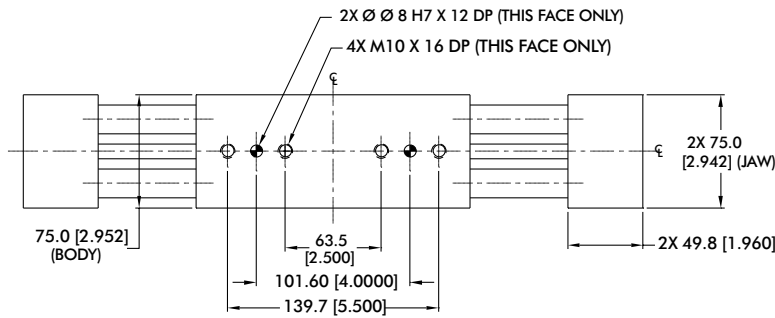
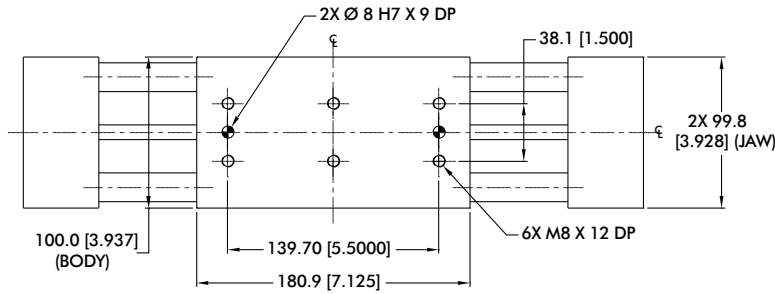


RPW-625M	Static	Dynamic
Maximum Tensile <b>T</b>	[1200 lbs] 5338 N	[125 lbs] 556 N
Maximum Compressive <b>C</b>	[1200 lbs] 5338 N	[125 lbs] 556 N
Maximum Moment <b>M<sub>x</sub></b>	[1000 in-lbs] 113 Nm	[100 in-lbs] 11 Nm
Maximum Moment <b>M<sub>y</sub></b>	[1500 in-lbs] 170 Nm	[125 in-lbs] 14 Nm
Maximum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

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

# RPW-750M

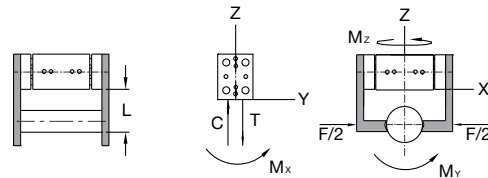
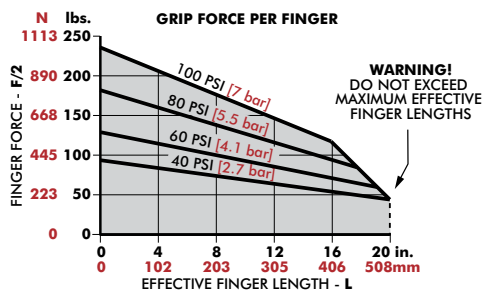
## 2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications



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 <b>C</b>	11121 N [2500 lb]	1112 N [250 lb]
Maximum Moment <b>M<sub>x</sub></b>	226 Nm [2000 in-lb]	22 Nm [200 in-lb]
Maximum Moment <b>M<sub>y</sub></b>	339 Nm [3000 in-lb]	28 Nm [250 in-lb]
Maximum Moment <b>M<sub>z</sub></b>	226 Nm [2000 in-lb]	22 Nm [200 in-lb]

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