# PNEUMATIC HEAVY DUTY GRIPPERS

## Product Overview

<table>
<thead>
<tr>
<th>Model</th>
<th>Stroke mm [in]</th>
<th>Grip Force N [lbs]</th>
<th>Operating Environment</th>
<th>Special Features</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPW</td>
<td>19.05-63.5 [0.75-2.5]</td>
<td>222-801 [50-180]</td>
<td>IP66, Harsh Environment</td>
<td>High Impact Loading Gripper. Long Finger Lengths. Ideal for Long or Wide Part Handling.</td>
<td>3</td>
</tr>
</tbody>
</table>
**PNEUMATIC HEAVY DUTY GRIPPERS**

2-Jaw Heavy-Duty Parallel Grippers | DIRECTCONNECT™ Mounting Combatability Chart

**Modular DIRECTCONNECT Mounting Style Examples:**
Products can be mounted in multiple positions. Refer to datasheet for complete info.

![Slide to Gripper](image1)
DLT Thruster Slide to DPW Parallel Gripper

![Slide to Gripper](image2)
DLT Thruster Slide to DPW Parallel Gripper

![Slide to Gripper](image3)
DLM Thruster Slide to DPW Parallel Gripper

![Rotary to Gripper](image4)
DRF Rotary Actuator to DPW Parallel Gripper

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**DIRECTCONNECT™ Mounting Compatibility Chart**

DESTACO’s DIRECTCONNECT™ technology, allows all components of the system—grippers, rotaries 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.

<table>
<thead>
<tr>
<th>Catalog Models</th>
<th>Grippers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DPW-250</td>
</tr>
<tr>
<td><strong>Base Slides</strong></td>
<td></td>
</tr>
<tr>
<td>DLB-06,08</td>
<td>3R</td>
</tr>
<tr>
<td>DLB-10,12,16</td>
<td></td>
</tr>
<tr>
<td>DLB-20,25</td>
<td></td>
</tr>
<tr>
<td><strong>Thruster Slides</strong></td>
<td></td>
</tr>
<tr>
<td>DLT-06,08</td>
<td>3R</td>
</tr>
<tr>
<td>DLT-10,12,16</td>
<td>3R</td>
</tr>
<tr>
<td>DLT-20,25</td>
<td></td>
</tr>
<tr>
<td>DLM-07</td>
<td>3R</td>
</tr>
<tr>
<td>DLM-9,12</td>
<td>3R</td>
</tr>
<tr>
<td><strong>Rotary Actuators</strong></td>
<td></td>
</tr>
<tr>
<td>DRF-075,094</td>
<td>3R</td>
</tr>
<tr>
<td>DRF-106</td>
<td>3R</td>
</tr>
<tr>
<td>DRF-131</td>
<td></td>
</tr>
</tbody>
</table>
**How To Order**

### Sensor Accessories

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Part Number</th>
<th>Qty/Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHSP-017</td>
<td>1-4†</td>
<td></td>
</tr>
<tr>
<td>OHSN-017</td>
<td>1-4†</td>
<td></td>
</tr>
<tr>
<td>OHSP-011</td>
<td>1-4†</td>
<td></td>
</tr>
<tr>
<td>OHSN-011</td>
<td>1-4†</td>
<td></td>
</tr>
<tr>
<td>OISP-019</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>OISN-019</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>OISP-014</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>OISN-014</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>CABL-010</td>
<td>1-4†</td>
<td></td>
</tr>
<tr>
<td>CABL-013</td>
<td>1-4†</td>
<td></td>
</tr>
</tbody>
</table>

*Sensor and cable sold separately. †Except 250-1, 250-2, 1-2 only.

### Pneumatic Accessories

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFSV-004</td>
<td>1</td>
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<tr>
<td>VLVF-008</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**Accessories**

### Features:

- Robust wide body gripper with DIRECTCONNECT mounting
- Grip force ranges from 222N thru 800N
- Strokes range from 19mm thru 63.5mm
- Rack and pinion design for smooth operation
- Jaws well supported to grip large and wide parts
- Multiple air ports where top ports can be manifolded
- Shaft wiper seals for harsh environments
- Optional non-synchronous jaw operation

### Applications:

- Wide part gripping
- Gantry systems
- Harsh gripping environment
- Long finger applications
## 2-Jaw Heavy-Duty Parallel Grippers | Technical Specifications

### Specifications | Units
<table>
<thead>
<tr>
<th></th>
<th>250M-1</th>
<th>250M-2</th>
<th>375M-1</th>
<th>375-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi</td>
<td>N [lbs]</td>
<td>222 [50]</td>
<td>445 [100]</td>
<td></td>
</tr>
<tr>
<td>Total Stroke</td>
<td>mm [in]</td>
<td>19.1 [0.75]</td>
<td>31.8 [1.25]</td>
<td>25.4 [1.00]</td>
</tr>
<tr>
<td>Weight</td>
<td>kg [lbs]</td>
<td>0.30 [0.66]</td>
<td>0.39 [0.86]</td>
<td>0.81 [1.80]</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>1.5-7 [20-100]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingress Protection Class (IP)</td>
<td></td>
<td>IP66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>cm³ [in³]</td>
<td>3.8 [0.023]</td>
<td>6.3 [0.383]</td>
<td>11.3 [0.690]</td>
</tr>
<tr>
<td>Temperature Range (Buna-N seals)</td>
<td>°C [°F]</td>
<td>-35°~80° [-30°~180°]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Actuation</td>
<td>sec</td>
<td>0.12</td>
<td>0.14</td>
<td>0.16</td>
</tr>
<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.08 [±0.003]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.03 [±0.001]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td>4-way, 2-position</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Specifications | Units
<table>
<thead>
<tr>
<th></th>
<th>500M-1</th>
<th>500M-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi</td>
<td>N [lbs]</td>
<td>800 [180]</td>
</tr>
<tr>
<td>Total Stroke</td>
<td>mm [in]</td>
<td>38.1 [1.50]</td>
</tr>
<tr>
<td>Weight</td>
<td>kg [lbs]</td>
<td>1.48 [3.27]</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>1.5-7 [20-100]</td>
</tr>
<tr>
<td>Ingress Protection Class (IP)</td>
<td></td>
<td>IP66</td>
</tr>
<tr>
<td>Displacement</td>
<td>cm³ [in³]</td>
<td>30.2 [1.841]</td>
</tr>
<tr>
<td>Temperature Range (Buna-N seals)</td>
<td>°C [°F]</td>
<td>-35°~80° [-30°~180°]</td>
</tr>
<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
</tr>
<tr>
<td>Actuation</td>
<td>sec</td>
<td>0.20</td>
</tr>
<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.08 [±0.003]</td>
</tr>
<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.03 [±0.001]</td>
</tr>
<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td>4-way, 2-position</td>
</tr>
</tbody>
</table>

Dimensions and technical information are subject to change without notice
DPW-250M

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

Sensor Accessories

250M
Inductive Sensor Mtg Kit (3mm or 4mm) OSMK-116

Seal Repair Kits

250M
Buna-N Seal Repair Kit SLKT-337
Viton® Seal Repair Kit SLKT-337V
Viton® Manifold Seal Kit SLKT-197V
Shaft Wiper Seal Kit SLKT-338

Loading Information

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Dimensions and technical information are subject to change without notice
2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

**Model** | **A** | **B** | **C** | **D** | **E** | **F**
---|---|---|---|---|---|---
DPW-375M-1 | 6.7 [0.262] | 67.1 [2.640] | 97 [3.81] | 122 [4.81] | 13.0 [0.512] | 11 [0.43]
DPW-375M-2 | 11.7 [0.462] | 92.5 [3.640] | 147 [5.81] | 198 [7.81] | 25.7 [1.012] | 12 [0.47]

**Loading Information**

**WARNING!**
DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS

**Grip Force Per Finger**

N | lbs.
---|---
223 | 50
178 | 40
134 | 30
92 | 20
50 | 10
0 | 0

**Effective Finger Length - L**

0 | 134 | 178 | 223 | 25 | 50 | 76 | 102 | 127 | 153 | 178 mm

**Maximum Tensile** | 534 N [120 lbs] | 107 N [24 lbs]
**Maximum Compressive** | 534 N [120 lbs] | 107 N [24 lbs]
**Maximum Moment** | 24 Nm [210 in-lbs] | 5 Nm [42 in-lbs]
**Maximum Moment** | 34 Nm [300 in-lbs] | 7 Nm [60 in-lbs]
**Maximum Moment** | 24 Nm [210 in-lbs] | 5 Nm [42 in-lbs]

†Capacities are per set of jaws and are not simultaneous

Dimensions and technical information are subject to change without notice
DPW-500M

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

Loading Information

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPW-500M-1</td>
<td>12.1</td>
<td>82.8</td>
<td>125</td>
<td>164</td>
<td>19.2</td>
</tr>
<tr>
<td>DPW-500M-2</td>
<td>14.9</td>
<td>108.2</td>
<td>177</td>
<td>240</td>
<td>31.9</td>
</tr>
</tbody>
</table>

*Capacities are per set of jaws and are not simultaneous
**RPB Series**

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

**Features:**
- High accuracy, sealed, low friction roller bearing, long stroke gripper
- Grip force of 2669N with strokes from 101 mm [3.98 in] to 203 mm [7.99 in] (maintains full grip force even at long finger lengths)
- Rack and pinion design for high repeatability
- Purge ports maintain long term smooth operation in harsh environments.
- Viton® seals for extended temperature operating range.
- Optional non-synchronous jaw operation
- Part sensing using up to 4 inductive sensors

**Applications:**
- Foundry applications
- Gantry systems
- Large heavy part handling
- Long finger lengths

---

**RPB Series How To Order**

![RPB Series Accessories](USB key shown for scale)

<table>
<thead>
<tr>
<th>Base Model</th>
<th>Size</th>
<th>Shielded</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPB</td>
<td>24M</td>
<td>“Blank”</td>
<td>Non-Shielded</td>
</tr>
<tr>
<td>RPB</td>
<td>26M</td>
<td>“Blank”</td>
<td>Shielded</td>
</tr>
<tr>
<td>RPB</td>
<td>28M</td>
<td>“Blank”</td>
<td>Non-Synchronous</td>
</tr>
</tbody>
</table>

**Jaw Synchronization**

“Blank” Synchronous

Non-Synchronous Operation

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**RPB Series Accessories**

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<thead>
<tr>
<th>Sensor Accessories</th>
<th>Model Numbers</th>
<th>Part Number</th>
<th>Qty/Unit</th>
</tr>
</thead>
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<tr>
<td>12mm Sensor Mounting Kit (mounts 2 sensors)</td>
<td>24, 26, 28</td>
<td>OSMK-078</td>
<td>1-2</td>
</tr>
<tr>
<td>12mm Sensor Mounting Kit (mounts 2 sensors)</td>
<td>24-S, 26-S, 28-S</td>
<td>OSMK-079</td>
<td>1-2</td>
</tr>
<tr>
<td>12mm PNP Inductive Sensor with Quick Disconnect*</td>
<td>All Models</td>
<td>OISP-017</td>
<td>1-4</td>
</tr>
<tr>
<td>12mm NPN Inductive Sensor with Quick Disconnect*</td>
<td>All Models</td>
<td>OISN-017</td>
<td>1-4</td>
</tr>
<tr>
<td>Quick Disconnect 2 Meter Cable Length*</td>
<td>All Models</td>
<td>CABL-014</td>
<td>1-4</td>
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</table>

<table>
<thead>
<tr>
<th>Pneumatic Accessories</th>
<th>Model Numbers</th>
<th>Part Number</th>
<th>Qty/Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail Safe Valve (Metric)</td>
<td>All Models</td>
<td>OFSV-006</td>
<td>1</td>
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</table>

*Sensor and cable sold separately.
## Specifications

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<thead>
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<th>Specifications</th>
<th>Units</th>
<th>24M, 24M-S</th>
<th>26M, 26M-S</th>
<th>28M, 28M-S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi [7 bar]</td>
<td>N [lbs]</td>
<td>2669 [600]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>1.4-7 [20-100]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cylinder Bore Ø</td>
<td>mm [in]</td>
<td>50.8 [2.000]</td>
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<td></td>
</tr>
<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Actuation</td>
<td>sec</td>
<td>0.5</td>
<td>0.75</td>
<td>1.00</td>
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<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.13 [±0.005]</td>
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<td></td>
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<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.05 [±0.0020]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td></td>
<td></td>
<td>4-way, 2-position</td>
</tr>
</tbody>
</table>
RPB-24M, -26M, -28M
2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

Loading Information

Static Load

---|---|---|---|---|---|---|---|---|---|---|---
RPB-24M | 438.2 | 152.4 | 101.6 | 50.8 | 50.8 | 98.9 | 394 | 292 | 101.6 | 38.1 | 82.0 | 127.0
| | [17.250] | [6.000] | [4.000] | [2.000] | [2.000] | [3.90] | [15.50] | [11.50] | [4.000] | [1.500] | [3.2284] | [5.000]
RPB-26M | 590.5 | 266.7 | 177.8 | 88.9 | 88.9 | 150 | 546 | 394 | 133.4 | 44.5 | 112.0 | 178
| | [23.250] | [10.500] | [7.000] | [3.500] | [3.500] | [5.90] | [21.50] | [15.50] | [5.250] | [1.750] | [1.4094] | [7.00]
RPB-28M | 743.0 | 381.0 | 254.0 | 127.0 | 127.0 | 188 | 699 | 495 | 165.1 | 50.8 | 140.0 | 229
| | [29.250] | [15.000] | [10.000] | [5.000] | [5.000] | [7.39] | [27.50] | [19.50] | [6.500] | [2.000] | [5.5118] | [9.00]

Seal Repair Kits

Viton® Seal Repair Kit SLKT-123V

Dimensions and technical information are subject to change without notice.
RPB-24M-S, -26M-S, -28M-S

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

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPB-24M-S</td>
<td>438.2</td>
<td>152.4</td>
<td>101.6</td>
<td>50.8</td>
<td>50.8</td>
<td>98.9</td>
<td>427</td>
<td>325</td>
<td>101.6</td>
<td>38.1</td>
<td>82.0</td>
<td>124</td>
</tr>
<tr>
<td>RPB-26M-S</td>
<td>590.5</td>
<td>266.7</td>
<td>177.8</td>
<td>88.9</td>
<td>88.9</td>
<td>150</td>
<td>578</td>
<td>425</td>
<td>133.4</td>
<td>44.5</td>
<td>112.0</td>
<td>153</td>
</tr>
<tr>
<td>RPB-28M-S</td>
<td>743.0</td>
<td>381.0</td>
<td>254.0</td>
<td>127.0</td>
<td>127.0</td>
<td>188</td>
<td>724</td>
<td>521</td>
<td>165.1</td>
<td>50.8</td>
<td>140.0</td>
<td>197</td>
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</table>

Seal Repair Kits

Order #
- Viton® Seal Repair Kit SLKT-123V
- Viton® Shield/Seal Repair Kit 24-S SLKT-152V
- Viton® Shield/Seal Repair Kit 26-S SLKT-153V
- Viton® Shield/Seal Repair Kit 28-S SLKT-166V

Loading Information

<table>
<thead>
<tr>
<th>Static Load</th>
<th>-24M</th>
<th>-26M, -28M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Tensile</td>
<td>6672 N [1500 lbs]</td>
<td>8896 N [2000 lbs]</td>
</tr>
<tr>
<td>Maximum Compressive C</td>
<td>6672 N [1500 lbs]</td>
<td>8896 N [2000 lbs]</td>
</tr>
<tr>
<td>Maximum Moment Mx</td>
<td>339 Nm [3000 in-lbs]</td>
<td>396 Nm [3500 in-lbs]</td>
</tr>
<tr>
<td>Maximum Moment My</td>
<td>339 Nm [3000 in-lbs]</td>
<td>396 Nm [3500 in-lbs]</td>
</tr>
</tbody>
</table>

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

Dimensions and technical information are subject to change without notice.

GR-HDP | 12
RPR SERIES

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

Features:
- High rigidity and robust long stroke gripper
- Grip force of 4559N with strokes from 150 mm [5.91 in] to 350 mm [13.78 in]
- Rack and Pinion for synchronized jaw operation
- Optional Integral Rod Lock that lock jaws in position upon air loss
- Shaft wiper seals protects internal bearings from contaminants
- Optional Viton® seals for high temp applications
- Customized sensing and linear encoder solutions available

Applications:
- Foundry applications
- Gantry Systems
- Large heavy part handling

How To Order

<table>
<thead>
<tr>
<th>Base Model</th>
<th>Stroke [mm]</th>
<th>Seals</th>
<th>Rod Lock</th>
<th>Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPR-63</td>
<td>150 300 200</td>
<td>&quot;Blank&quot;</td>
<td>&quot;Blank&quot;</td>
<td>&quot;Blank&quot;</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>Buna-N</td>
<td>V</td>
<td>Coated Steel</td>
</tr>
<tr>
<td></td>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Jaw Synchronization</th>
<th>Seals</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Blank&quot; M</td>
<td>Synchronous</td>
<td>Buna-N</td>
<td>High Temperature</td>
</tr>
<tr>
<td></td>
<td>Synchronous</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non-Synchronous</td>
<td></td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Accessories</td>
</tr>
<tr>
<td>Part Number</td>
</tr>
<tr>
<td>OSMK-131</td>
</tr>
<tr>
<td>OISP-017</td>
</tr>
<tr>
<td>OISN-017</td>
</tr>
<tr>
<td>CABL-014</td>
</tr>
<tr>
<td>CABL-018</td>
</tr>
</tbody>
</table>

| Pneumatic Accessories |
| Part Number  | Qty/Unit |
| OFSV-003     | 1        |
| OFSV-006     | 1        |
| SLKT-452     | 1        |
| SLKT-453     | 1        |

*Sensor and cable sold separately.

Dimensions and technical information are subject to change without notice.
## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Units</th>
<th>RPR-63-150</th>
<th>RPR-63-200</th>
<th>RPR-63-250</th>
<th>RPR-63-300</th>
<th>RPR-63-350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi</td>
<td>N [lbs]</td>
<td>3250 [800]</td>
<td></td>
<td></td>
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<tr>
<td>Ingress Protection Class (IP)</td>
<td></td>
<td>IP65</td>
<td></td>
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<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>3-7 [40-100]</td>
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<tr>
<td>Displacement</td>
<td>cm³ [in³]</td>
<td>623 [38.2]</td>
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<td></td>
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<tr>
<td>Temperature Range (Buna-N seals)</td>
<td>°C [°F]</td>
<td>-35°~80° [-30°~180°]</td>
<td></td>
<td></td>
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<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
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<td></td>
<td></td>
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<tr>
<td>Actuation</td>
<td>sec</td>
<td>1.0</td>
<td>1.3</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
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<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.13 [±0.005]</td>
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<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.05 [±0.002]</td>
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<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td>4-way, 2-position</td>
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Dimensions and technical information are subject to change without notice
2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

RPR-63-250 SHOWN

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
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<tr>
<td>RPR-63-150</td>
<td>[12.27]</td>
<td>[6.34]</td>
<td>[5.51]</td>
<td>[2.96]</td>
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<tr>
<td>RPR-63-200</td>
<td>[19.75]</td>
<td>[11.87]</td>
<td>140</td>
<td>[3.94]</td>
<td>59.6</td>
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<tr>
<td>RPR-63-250</td>
<td>[23.81]</td>
<td>[13.96]</td>
<td>[6.58]</td>
<td>[4.92]</td>
<td>125</td>
</tr>
<tr>
<td>RPR-63-300</td>
<td>[28.15]</td>
<td>[16.21]</td>
<td>195.6</td>
<td>[5.97]</td>
<td>151.6</td>
</tr>
<tr>
<td>RPR-63-350</td>
<td>[31.75]</td>
<td>[17.71]</td>
<td>[8.45]</td>
<td>[7.02]</td>
<td>178.3</td>
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<tr>
<td></td>
<td>[806.5]</td>
<td>[449.9]</td>
<td>214.6</td>
<td>[107.6]</td>
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Loading Information

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<thead>
<tr>
<th>FINGER FORCE</th>
<th>GRIP FORCE PER FINGER</th>
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<tbody>
<tr>
<td>200 PSI [1380 lbs]</td>
<td>87 PSI [580 lbs]</td>
</tr>
<tr>
<td>300 PSI [2070 lbs]</td>
<td>132 PSI [870 lbs]</td>
</tr>
<tr>
<td>400 PSI [2680 lbs]</td>
<td>176 PSI [1180 lbs]</td>
</tr>
</tbody>
</table>

WARNING! DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS

RPR-63M

| Maximum Tensile T | 15570 N [3500 lbs] |
| Maximum Compressive C | 15570 N [3500 lbs] |
| Maximum Moment Mx | 825 Nm [7500 in-lbs] |
| Maximum Moment My | 990 N [9000 lbs] |
| Maximum Moment Mz | 825 Nm [7500 in-lbs] |
| Maximum Finger Length L | 500mm [20 in] |

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

Dimensions and technical information are subject to change without notice.
2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

RPR-63-150
(COMMON DIMENSION FOR ALL SIZES SHOWN)

RPR-63-200

RPR-63-250

RPR-63-300

RPR-63-350
# 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

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke</th>
<th>Description</th>
<th>Qty/Unit</th>
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</thead>
<tbody>
<tr>
<td>250, 625</td>
<td>1</td>
<td>Standard Stroke</td>
<td></td>
</tr>
<tr>
<td>375, 750</td>
<td>2</td>
<td>Extended Stroke</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*No stroke option for size 250 & 750

### Accessories

#### Sensor Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Model Numbers</th>
<th>Part Number</th>
<th>Qty/Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Mounting Kit for Imperial &amp; Metric Units (mounts 2 sensors)</td>
<td>See Datasheet</td>
<td>OISP-014</td>
<td>1-2</td>
</tr>
<tr>
<td>PNP Inductive Sensor with Quick Disconnect*</td>
<td>250, 375, 500</td>
<td>OISP-014</td>
<td>1-2</td>
</tr>
<tr>
<td>NPN Inductive Sensor with Quick Disconnect*</td>
<td>250, 375, 500</td>
<td>OISN-014</td>
<td>1-2</td>
</tr>
<tr>
<td>PNP Inductive Sensor with Quick Disconnect*</td>
<td>625, 750</td>
<td>OISP-011</td>
<td>1-2</td>
</tr>
<tr>
<td>NPN Inductive Sensor with Quick Disconnect*</td>
<td>625, 750</td>
<td>OISN-011</td>
<td>1-2</td>
</tr>
<tr>
<td>Quick Disconnect 2 Meter Cable Length*</td>
<td>All Models</td>
<td>CABL-010</td>
<td>1-2</td>
</tr>
<tr>
<td>Quick Disconnect 5 Meter Cable Length*</td>
<td>All Models</td>
<td>CABL-013</td>
<td>1-2</td>
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#### Pneumatic Accessories

<table>
<thead>
<tr>
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<th>Model Numbers</th>
<th>Part Number</th>
<th>Qty/Unit</th>
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</thead>
<tbody>
<tr>
<td>Fail Safe Valve (Imperial)</td>
<td>250, 375</td>
<td>OFSV-001</td>
<td>1</td>
</tr>
<tr>
<td>Fail Safe Valve (Metric)</td>
<td>250, 375</td>
<td>OFSV-004</td>
<td>1</td>
</tr>
<tr>
<td>Fail Safe Valve (Imperial)</td>
<td>500, 625, 750</td>
<td>OFSV-002</td>
<td>1</td>
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<tr>
<td>Fail Safe Valve (Metric)</td>
<td>500, 625, 750</td>
<td>OFSV-005</td>
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</tbody>
</table>

*Sensor and cable sold separately.

---

Dimensions and technical information are subject to change without notice
## RPW Series

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

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Units</th>
<th>250</th>
<th>375-1</th>
<th>375M-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi</td>
<td>N [lbs]</td>
<td>222 [50]</td>
<td>400 [90]</td>
<td></td>
</tr>
<tr>
<td>Total Stroke</td>
<td>mm [in]</td>
<td>19.1 [0.75]</td>
<td>25.4 [1.00]</td>
<td>50.8 [2.00]</td>
</tr>
<tr>
<td>Weight</td>
<td>kg [lbs]</td>
<td>0.30 [0.66]</td>
<td>0.59 [1.3]</td>
<td>0.91 [2.0]</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>3.7 [40-100]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingress Protection Class (IP)</td>
<td></td>
<td></td>
<td>IP54</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>cm³ [in³]</td>
<td>3.8 [0.023]</td>
<td>9.8 [0.600]</td>
<td>19.7 [1.200]</td>
</tr>
<tr>
<td>Temperature Range (Buna-N seals)</td>
<td>°C [°F]</td>
<td>-35°~80° [-30°~180°]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
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</tr>
<tr>
<td>Actuation</td>
<td>sec</td>
<td>0.16</td>
<td>0.20</td>
<td>0.25</td>
</tr>
<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.05 [±0.002]</td>
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<td></td>
</tr>
<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.03 [±0.001]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td>4-way, 2-position</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>Units</th>
<th>500-1</th>
<th>500-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi</td>
<td>N [lbs]</td>
<td>667 [150]</td>
<td></td>
</tr>
<tr>
<td>Total Stroke</td>
<td>mm [in]</td>
<td>38.1 [1.50]</td>
<td>63.5 [2.50]</td>
</tr>
<tr>
<td>Weight</td>
<td>kg [lbs]</td>
<td>1.4 [3.0]</td>
<td>1.85 [4.0]</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>3.7 [40-100]</td>
<td></td>
</tr>
<tr>
<td>Ingress Protection Class (IP)</td>
<td></td>
<td></td>
<td>IP54</td>
</tr>
<tr>
<td>Displacement</td>
<td>cm³ [in³]</td>
<td>29.5 [1.800]</td>
<td>49.2 [3.000]</td>
</tr>
<tr>
<td>Temperature Range (Buna-N seals)</td>
<td>°C [°F]</td>
<td>-35°~80° [-30°~180°]</td>
<td></td>
</tr>
<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
<td></td>
</tr>
<tr>
<td>Actuation</td>
<td>sec</td>
<td>0.25</td>
<td>0.33</td>
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<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.08 [±0.003]</td>
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<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.03 [±0.001]</td>
<td></td>
</tr>
<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td>4-way, 2-position</td>
<td></td>
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<table>
<thead>
<tr>
<th>Specifications</th>
<th>Units</th>
<th>625-1</th>
<th>625-2</th>
<th>750</th>
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</thead>
<tbody>
<tr>
<td>Total Rated Grip Force F @ 100 psi</td>
<td>N [lbs]</td>
<td>1068 [240]</td>
<td>2091 [470]</td>
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<tr>
<td>Total Stroke</td>
<td>mm [in]</td>
<td>50.8 [2.00]</td>
<td>88.9 [3.50]</td>
<td>114.3 [4.50]</td>
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<tr>
<td>Weight</td>
<td>kg [lbs]</td>
<td>3.0 [6.5]</td>
<td>3.6 [7.8]</td>
<td>6.4 [14]</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>bar [psi]</td>
<td>3.7 [40-100]</td>
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<tr>
<td>Ingress Protection Class (IP)</td>
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<td>IP54</td>
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<tr>
<td>Temperature Range (Buna-N seals)</td>
<td>°C [°F]</td>
<td>-35°~80° [-30°~180°]</td>
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</tr>
<tr>
<td>Temperature Range (Viton® seals)</td>
<td>°C [°F]</td>
<td>-30°~150° [-20°~300°]</td>
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<tr>
<td>Actuation</td>
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<td>0.52</td>
<td>0.69</td>
<td>1.00</td>
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<tr>
<td>Accuracy</td>
<td>mm [in]</td>
<td>±0.08 [±0.003]</td>
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<tr>
<td>Repeatability</td>
<td>mm [in]</td>
<td>±0.03 [±0.001]</td>
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<tr>
<td>Valve to Actuate Double Acting</td>
<td></td>
<td>4-way, 2-position</td>
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</tr>
</tbody>
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Dimensions and technical information are subject to change without notice.
RPW-250M

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

**Loading Information**

**RPW-250M**

<table>
<thead>
<tr>
<th>Static</th>
<th>Dynamic</th>
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</thead>
<tbody>
<tr>
<td>Maximum Tensile $T$: 50 lb</td>
<td>222 N</td>
</tr>
<tr>
<td>Maximum Compressive $C$: 50 lb</td>
<td>222 N</td>
</tr>
<tr>
<td>Maximum Moment $M_x$: 100 in-lb</td>
<td>11 Nm</td>
</tr>
<tr>
<td>Maximum Moment $M_y$: 150 in-lb</td>
<td>17 Nm</td>
</tr>
<tr>
<td>Maximum Moment $M_z$: 100 in-lb</td>
<td>11 Nm</td>
</tr>
</tbody>
</table>

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

Dimensions and technical information are subject to change without notice.
2-Jaw Heavy-Duty Parallel Grippers | Dimensions and Technical Specifications

Sensor Accessories

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<tbody>
<tr>
<td>RPW-375M-1</td>
<td>19.05</td>
<td>19.05</td>
<td>15.88</td>
<td>18.8</td>
<td>13</td>
<td>22</td>
<td>9</td>
<td>21</td>
<td>120</td>
<td>95</td>
<td>50.8</td>
<td>2.000</td>
</tr>
<tr>
<td>RPW-375M-2</td>
<td>50.8</td>
<td>83.3</td>
<td>15.88</td>
<td>25.1</td>
<td>12</td>
<td>35</td>
<td>17</td>
<td>34</td>
<td>187</td>
<td>136</td>
<td>38.1</td>
<td>1.500</td>
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Seal Repair Kits

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<tr>
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<td>19.05</td>
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<td>18.8</td>
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<td>9</td>
<td>21</td>
<td>120</td>
<td>95</td>
<td>50.8</td>
<td>2.000</td>
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<tr>
<td>RPW-375M-2</td>
<td>50.8</td>
<td>83.3</td>
<td>15.88</td>
<td>25.1</td>
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<td>35</td>
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<td>34</td>
<td>187</td>
<td>136</td>
<td>38.1</td>
<td>1.500</td>
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</tbody>
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Loading Information

**WARNING!**
DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS

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<tr>
<td>RPW-375M-1</td>
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<td>19.05</td>
<td>15.88</td>
<td>18.8</td>
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<td>21</td>
<td>120</td>
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<td>50.8</td>
<td>2.000</td>
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<td>83.3</td>
<td>15.88</td>
<td>25.1</td>
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<td>35</td>
<td>17</td>
<td>34</td>
<td>187</td>
<td>136</td>
<td>38.1</td>
<td>1.500</td>
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**RPW-375M**

<table>
<thead>
<tr>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Tensile T</td>
<td>100 lb (445 N)</td>
</tr>
<tr>
<td>Maximum Compressive C</td>
<td>100 lb (445 N)</td>
</tr>
<tr>
<td>Maximum Moment MX</td>
<td>175 in-lb (20 Nm)</td>
</tr>
<tr>
<td>Maximum Moment MY</td>
<td>250 in-lb (28 Nm)</td>
</tr>
<tr>
<td>Maximum Moment Mz</td>
<td>175 in-lb (20 Nm)</td>
</tr>
</tbody>
</table>

*Capacities are per set of jaws and are not simultaneous

Dimensions and technical information are subject to change without notice.
RPW-500M

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

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### Dimensions and Technical Specifications

**Model** | **A** | **B** | **C** | **D** | **D2** | **E** | **F** | **G** | **H**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---

**Loading Information**

**Grip Force per Finger**

- **N** lbs.
- **Finger Force** - **F/2**
- **Effective Finger Length** - **L**

**WARNING! DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS**

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**RPW-500M**

<table>
<thead>
<tr>
<th><strong>Maximum Tensile</strong> T</th>
<th><strong>Static</strong> Nm</th>
<th><strong>Dynamic</strong> Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 lb</td>
<td>2224</td>
<td>222</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Maximum Compressive</strong> C</th>
<th><strong>Static</strong> Nm</th>
<th><strong>Dynamic</strong> Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 lb</td>
<td>2224</td>
<td>222</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Maximum Moment</strong> Mx</th>
<th><strong>Static</strong> Nm</th>
<th><strong>Dynamic</strong> Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 in-lb</td>
<td>57</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Maximum Moment</strong> My</th>
<th><strong>Static</strong> Nm</th>
<th><strong>Dynamic</strong> Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 in-lb</td>
<td>85</td>
<td>8</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Maximum Moment</strong> Mz</th>
<th><strong>Static</strong> Nm</th>
<th><strong>Dynamic</strong> Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 in-lb</td>
<td>57</td>
<td>6</td>
</tr>
</tbody>
</table>

*Capacities are per set of jaws and are not simultaneous*
RPW-750M

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

Loading Information

Sensor Accessories

<table>
<thead>
<tr>
<th>750</th>
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<tbody>
<tr>
<td>Inductive Sensor Mtg Kit (2 Sensors)</td>
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Seal Repair Kits

<table>
<thead>
<tr>
<th>750</th>
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<tbody>
<tr>
<td>Buna-N Seal Repair Kit</td>
</tr>
<tr>
<td>Viton® Seal Repair Kit</td>
</tr>
</tbody>
</table>

Dimensions and technical information are subject to change without notice
HEAVY-DUTY PARALLEL GRIPPERS

Notes

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