Parallel Motion Gripper

**RPL Low Profile Series**
- Lightweight, Compact
- Patented Dual “V” Roller Bearing System
- Excellent accuracy and repeatability
- Synchronized and non-synchronized versions available

**RPLC Low Profile Clean Room Series**
- Designed for use in Class 10 clean rooms as well as in harsh environments
- Stainless Steel hardware and covers for durability
- Vacuum/Pressure port
- Patented Dual “V” Roller Bearing System
- Excellent accuracy and repeatability

**RPM Micro Series**
- Extremely small size—as small as 5/8” wide!
- Compact design allows for gripping small parts in small spaces
- Top air manifold eliminates the need for air fittings and allows grippers to be mounted in close array
- Ultra low friction mechanism allows for consistent, repeatable gripping forces

**RPM Micro Clean Room Series**
- Extremely small size—as low as 5/8” wide!
- Compact design allows for gripping small parts in small spaces
- Top air manifold eliminates the need for air fittings and allows grippers to be mounted in close array
- Ultra low friction mechanism allows for consistent, repeatable gripping forces
- Shielded with purge port

**DPL Double Wedge Series**
- Patented “Double Wedge Design” for extreme high grip force to size ratio
- Internally sealed for use in hostile environments
- Superior accuracy and repeatability
- Made from 7075-T6 aircraft quality aluminum hardcoat anodized to RC60 with Teflon® impregnation
- Highest grip force to weight/size ratio in the industry

**RP Double Acting Spring Assist Series**
- Spring assisted design for failsafe operation or increased grip force
- Fatigue resistant design for maximum spring life
- Utilizing our patented “Double Wedge Design”
- Superior accuracy and repeatability
- Sealed design on larger units repels chips and other particulate from internal drive mechanism

**DPD & DPDL Modular Series**
- Multiple DIRECTCONNECT™ mounting locations
- Multiple air port locations
- Multiple strokes per size
- Front-to-back thru-body mounting
- Extended strokes (DPDL)
- Purge/scavenge ports for harsh environments
- Optional bottom mount jaws, corrosion resistant hardware, high temperature seals, and sealed jaw boot (RPL)

**DPG Modular Series**
- Multiple DIRECTCONNECT™ mounting locations
- Multiple air port locations
- Spring assisted design for failsafe operation or increased grip force
- Shielded design repels contaminants
- Synchronized and non-synchronized versions

For more information call us at: 1-800-ROBOHAND or 203-261-5558  Fax: 203-452-7418  Visit us on the Internet at: www.destaco.com
Products Overview

REP Series
Cylindrical Parallel Gripper
- 2-Jaw Parallel Gripper
- Sealed design protects internal components from chips and other particulate
- Optional Magneto Resistive Sensors

RPW
Large Format Wide Body Series
- Excellent jaw support through the full body of the gripper
- High gripping forces utilizing two opposing pistons
- Synchronized and non-synchronized versions available
- Superior accuracy and repeatability
- Sealed design for harsh environments

RIP Series
Cylindrical Parallel Gripper
- Pneumatic or hydraulic operation
- Spring assist
- Optional sensor probe, integral transmitter, sealing jaw covers, Viton® seals for high temperature operation, and tandem cylinder

RPB
Brute Gripper Series
- Long strokes
- Extremely high grip forces
- Synchronized and non-synchronized versions available
- Superior accuracy and repeatability
- Sealed design for harsh environments

RP-P
Precision Dual “V” Series
- Patented Dual “V” Roller Bearing system reduces friction of jaw movement.
- Adjustable preload screws eliminate sideplay.
- Superior accuracy and repeatability
- Low friction mechanism allows for consistent, repeatable gripping forces

B-Series
Industrial Grippers
- For large and wide parts in machining and foundry applications
- Heavy duty, rugged designs
- Extremely high grip forces and moment loads

GC Series
Precision Parallel Gripper
- Precision operation
- Spring assist
- Grippers are fitted with 2 sensor holders (sensor available separately)
- Side or rear airports
- Optional 3rd sensor for part sensing, Viton® seals for high temperature applications, and encoder available

DPW
DIRECTCONNECT Wide Body Series
- Features our DIRECTCONNECT™ mounting pattern
- Excellent jaw support through the full body of the gripper
- Highly configurable gripper featuring multiple options and accessories
- Synchronized and non-synchronized versions available
- Each gripper is offered in 2 different strokes

PPC Series
Through Hole Gripper
- Unique through hole design
- 3 jaw concentric parallel gripper
- Shielded design protects internal components for increased life in harsh environments
- Optional safety springs, extended strokes, sensors, and high temperature seals

For more information call us at: 1-800-ROBOHAND or 203-261-5558  Fax: 203-452-7418  Visit us on the Internet at: www.destaco.com
### Robohand Parallel Gripper Product Selector

#### General Information

- **Low Profile Design**
- **Low Profile Clean Room Design**
- **Micro Design**
- **Micro Clean Room Design**
- **DirectConnect GIB Design**
- **DirectConnect Double Wedge Design**
- **DirectConnect Long Stroke Design**
- **Double Wedge Design**
- **Double Acting Spring Assisted Design**
- **Failsafe Operation**
- **Inductive Sensors**
- **Magneto Resistive Sensors**
- **Clean Room Environment**
- **Normal Environment**
- **Harsh/Dirty Environment**

#### Specifications

<table>
<thead>
<tr>
<th>Model #</th>
<th>Stroke Range</th>
<th>Total Grip Range</th>
<th>Maximum Finger Length Actuation</th>
<th>Actuation Time</th>
<th>Operating Pressure</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPL-1</td>
<td>0.0 - 0.25 in. (0 - 6.4mm)</td>
<td>0.25 - 0.50 in. (6.4 - 12.7mm)</td>
<td>0.50 - 0.75 in. (12.7 - 19.1mm)</td>
<td>0.75 - 1.00 in. (19.1 - 25.4mm)</td>
<td>1.00 - 1.25 in. (25.4 - 31.8mm)</td>
<td>1.25 - 1.50 in. (31.8 - 38.1mm)</td>
</tr>
<tr>
<td>RPL-2</td>
<td>0.25 - 0.50 in. (6.4 - 12.7mm)</td>
<td>0.50 - 0.75 in. (12.7 - 19.1mm)</td>
<td>0.75 - 1.00 in. (19.1 - 25.4mm)</td>
<td>1.00 - 1.25 in. (25.4 - 31.8mm)</td>
<td>1.25 - 1.50 in. (31.8 - 38.1mm)</td>
<td></td>
</tr>
<tr>
<td>RPL-3</td>
<td>0.50 - 0.75 in. (12.7 - 19.1mm)</td>
<td>0.75 - 1.00 in. (19.1 - 25.4mm)</td>
<td>1.00 - 1.25 in. (25.4 - 31.8mm)</td>
<td>1.25 - 1.50 in. (31.8 - 38.1mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-4</td>
<td>0.75 - 1.00 in. (19.1 - 25.4mm)</td>
<td>1.00 - 1.25 in. (25.4 - 31.8mm)</td>
<td>1.25 - 1.50 in. (31.8 - 38.1mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-5</td>
<td>1.00 - 1.25 in. (25.4 - 31.8mm)</td>
<td>1.25 - 1.50 in. (31.8 - 38.1mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-6</td>
<td>1.50 - 1.75 in. (38.1 - 44.5mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-7</td>
<td>1.75 - 2.00 in. (44.5 - 50.8mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-8</td>
<td>2.00 - 2.25 in. (50.8 - 57.1mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-9</td>
<td>2.25 - 2.50 in. (57.1 - 63.5mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-10</td>
<td>2.50 - 2.75 in. (63.5 - 69.8mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-11</td>
<td>2.75 - 3.00 in. (69.8 - 76.2mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPL-12</td>
<td>3.00+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For more information call us at: **1-800-ROBOHAND** or **203-261-5558**  
Fax: **203-452-7418**  
Visit us on the Internet at: **www.destaco.com**
# Robohand Parallel Gripper Product Selector

**Two Jaws**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stroke Range</th>
<th>Force Range @ 60 PSI</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Jaws</td>
<td>0 - 0.25 in.</td>
<td>0.05 - 0.1 sec.</td>
<td>5 - 100 psi</td>
</tr>
<tr>
<td>Three Jaws</td>
<td>0.25 - 0.50 in.</td>
<td>0.5 - 0.7 sec.</td>
<td>20 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>0.50 - 0.75 in.</td>
<td>0.75 - 1 sec.</td>
<td>40 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>0.75 - 1.00 in.</td>
<td>1 sec.</td>
<td>50 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>1.00 - 1.25 in.</td>
<td>1.5 sec.</td>
<td>70 - 150 psi</td>
</tr>
<tr>
<td></td>
<td>1.25 - 1.50 in.</td>
<td>2 sec.</td>
<td>100 - 500 psi</td>
</tr>
<tr>
<td></td>
<td>1.50 - 1.75 in.</td>
<td>2.5 sec.</td>
<td>500 - 1000 psi</td>
</tr>
<tr>
<td></td>
<td>1.75 - 2.00 in.</td>
<td>3 sec.</td>
<td>1000 - 3000 psi</td>
</tr>
</tbody>
</table>

**Three Jaws**

<table>
<thead>
<tr>
<th>Model</th>
<th>Stroke Range</th>
<th>Force Range @ 60 PSI</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three Jaws</td>
<td>0 - 0.25 in.</td>
<td>0.05 - 0.1 sec.</td>
<td>5 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>0.25 - 0.50 in.</td>
<td>0.5 - 0.7 sec.</td>
<td>20 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>0.50 - 0.75 in.</td>
<td>0.75 - 1 sec.</td>
<td>40 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>0.75 - 1.00 in.</td>
<td>1 sec.</td>
<td>50 - 100 psi</td>
</tr>
<tr>
<td></td>
<td>1.00 - 1.25 in.</td>
<td>1.5 sec.</td>
<td>70 - 150 psi</td>
</tr>
<tr>
<td></td>
<td>1.25 - 1.50 in.</td>
<td>2 sec.</td>
<td>100 - 500 psi</td>
</tr>
<tr>
<td></td>
<td>1.50 - 1.75 in.</td>
<td>2.5 sec.</td>
<td>500 - 1000 psi</td>
</tr>
<tr>
<td></td>
<td>1.75 - 2.00 in.</td>
<td>3 sec.</td>
<td>1000 - 3000 psi</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Stroke Range</th>
<th>Force Range @ 60 PSI</th>
<th>Time</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPC-12</td>
<td>0-2 in.</td>
<td>1-10 lbs.</td>
<td>0.05-0.1 sec.</td>
<td>0-2 in.</td>
</tr>
<tr>
<td>PPC-12-C</td>
<td>0-2 in.</td>
<td>1-10 lbs.</td>
<td>0.05-0.1 sec.</td>
<td>0-2 in.</td>
</tr>
<tr>
<td>PPC-25</td>
<td>2-4 in.</td>
<td>25-50 lbs.</td>
<td>0.1-0.5 sec.</td>
<td>0-2 in.</td>
</tr>
<tr>
<td>PPC-25-C</td>
<td>2-4 in.</td>
<td>25-50 lbs.</td>
<td>0.1-0.5 sec.</td>
<td>0-2 in.</td>
</tr>
<tr>
<td>PPC-34</td>
<td>4-6 in.</td>
<td>50-100 lbs.</td>
<td>0.5-1 sec.</td>
<td>0-2 in.</td>
</tr>
<tr>
<td>PPC-34-C</td>
<td>4-6 in.</td>
<td>50-100 lbs.</td>
<td>0.5-1 sec.</td>
<td>0-2 in.</td>
</tr>
</tbody>
</table>

Robohand Parallel Gripper Product Selector

For more information call us at: 1-800-ROBOHAND or 203-261-5558
Fax: 203-452-7418
Visit us on the Internet at: www.destaco.com