DESTACO DBG Series bag gripping end effector solutions offers end of line pick and place and palletizing solutions. The DBG has a simplified design with field adjustable finger position and opening angle.

Features also include:
Pneumatic or electric fully enclosed actuators
Integrated open/closed position sensors
Standard off-the-shelf components

Two sizes available:
DBG50 (50lb Max Load)
DBG100 (100lb Max Load)
DESTACO DBG Series bag gripper also features optional integrated slip sheet and pallet handling. Products are held secure even if air pressure is lost.

With rapid actuation, the DBG can palletize up to 30 bags per minute when working in concert with robotic automation.

DESTACO also provides custom design and build solutions for handling any packaging transfer and palletizing needs.
DBG SERIES BAG GRIPPER

Product Overview

Pneumatic Slip Sheet Pick Option (PU6-SP)

Additional Available Options (DBG100):
- Pneumatic Back-up Option (PU6-BU)
- Spring Back-up Option (SU3)

Controls Option (CP)

Pallet Pick Option (PP)

Spring Back-up Option (SU2)

Additional Available Options (DBG50):
- Pneumatic Back-up Option (PU4-BU)
- Pneumatic Slip Sheet Pick Option (PU4-SP)
- Controls Option (CP)
- Pallet Pick Option (PP)

DBG100-2-PU6-SP-PP-CP (Shown)

DBG50-2-SU2 (Shown)

Scan the QR Codes to see the bag gripper application videos.

Dimensions and technical information are subject to change without notice.
### DBG Series Bag Grippers

<table>
<thead>
<tr>
<th>Specifications</th>
<th>DBG50-2</th>
<th>DBG100-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit Weight:</strong></td>
<td>17kg [38 lbs]</td>
<td>43kg [95 lbs]</td>
</tr>
<tr>
<td><strong>Maximum Payload:</strong></td>
<td>23Kg [50 lbs]</td>
<td>45Kg [100 lbs]</td>
</tr>
<tr>
<td><strong>Maximum Bag Size:</strong></td>
<td>432 x 711 x 122mm</td>
<td>610 x 1016 x 170mm</td>
</tr>
<tr>
<td></td>
<td>[17 x 28 x 5 in]</td>
<td>[24 x 40 x 6.7 in]</td>
</tr>
</tbody>
</table>

### DBG Bag Gripper Order Information

- **DBG50-2**
  - **SU2** 2 Inches Spring Back-up
  - **PU4-BU** 4 Inches Pneumatic Back-up
  - **PU4-SP** 4 Inches Pneumatic Slip Sheet Pick

- **DBG100-2**
  - **SU3** 3 Inches Spring Back-up
  - **PU6-BU** 6 Inches Pneumatic Back-up
  - **PU6-SP** 6 Inches Pneumatic Slip Sheet Pick

**Base Model**

- **DBG50-2**
- **DBG100-2**

**Order Options**

- **PP** Pallet Pick
- **CP** Controls & Valve Package

*Note: Leave blank if option is not required.*
PU(x)-SP Pneumatic Slip Sheet Pick Option

• In addition to the spring compensator option, a vacuum system can be added to the package which will handle the slip sheet.
• Eliminate the need for a second end effector or secondary operation.
• 4” Stroke for DBG50-2 (PU4-SP) (Add option weight of 5kg [11 lbs] to base model)
• 6” Stroke for DBG100-2 (PU6-SP) (Add option weight of 10kg [23 lbs] to base model)

SU(x) Spring Back-Up Option

• Simple, cost-effective solution.
• Compression springs keep a constant pressure on the product.
• Low cost solution maintains control of the product while in transport.
• Spring Back-Up Option for DBG50-2 (SU2) (Add option weight of 2.9kg (6.4 lbs) to base model)
• Spring Back-Up Option for DBG100-2 (SU3) (Add option weight of 5.6kg (12.4 lbs) to base model)
**PP Pallet Pick Option**

- To offer a complete solution, DESTACO has also included an optional ‘Pallet Pick’ which allows the customer to pick-up and move the empty pallet.
- Pallet Pick Option for DBG50-2
  (Add option weight of 13kg [29 lbs] to base model)
- Pallet Pick Option for DBG100-2
  (Add option weight of 22kg [48 lbs] to base model)

**CP Controls Option**

- Controls Options are configured based on the different bag gripper options ordered.
  (Add option weight of 2.3kg [5 lbs] to base model)
<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG100-2</td>
<td>[95 lb](43 kg)</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>6X Ø11.0 THRU</td>
<td>[3.00] 76.2</td>
</tr>
<tr>
<td>Ø125.0</td>
<td>[24.49] 622.0</td>
</tr>
<tr>
<td>2X Ø10.0 THRU</td>
<td>[3.00] 76.2</td>
</tr>
<tr>
<td>Dowel Holes P.F.</td>
<td>[24.00] 609.6</td>
</tr>
<tr>
<td>3X Ø8.5 x 23.0</td>
<td>[24.00] 609.6</td>
</tr>
<tr>
<td>M10X1.5 - 6H</td>
<td>[11.96] 303.7</td>
</tr>
<tr>
<td>300.0 [11.81] SET-UP</td>
<td>[1.50] 38.1</td>
</tr>
<tr>
<td>160.0 [6.30] SET-UP MIN (TYP)</td>
<td>[3.00] 76.2</td>
</tr>
<tr>
<td>95.0 [3.74] SET-UP MAX (TYP)</td>
<td>[3.00] 76.2</td>
</tr>
<tr>
<td>1951.8 [76.84]</td>
<td>[6.57] 167.0</td>
</tr>
<tr>
<td>1418.1 [55.83]</td>
<td>[48.52] 1232.5</td>
</tr>
<tr>
<td>285.7 REF</td>
<td>[11.25] 319.0</td>
</tr>
<tr>
<td>319.0 REF</td>
<td>[12.56] 323.9</td>
</tr>
<tr>
<td>504.8 [19.88]</td>
<td>[24.00] 609.6</td>
</tr>
<tr>
<td>387.2 REF</td>
<td>[15.24] 387.19</td>
</tr>
<tr>
<td>1503.7 [59.20]</td>
<td>[31.15] 1115.1</td>
</tr>
<tr>
<td>309.5 REF</td>
<td>[12.19] 342.8</td>
</tr>
<tr>
<td>508.0 [19.83]</td>
<td>[17.75] 450.9</td>
</tr>
<tr>
<td>465.1 [18.34]</td>
<td>[59.27] 1671.1</td>
</tr>
<tr>
<td>457.2</td>
<td>[48.52] 1232.5</td>
</tr>
<tr>
<td>1280.6 [50.40]</td>
<td>[2.22] 56.3</td>
</tr>
<tr>
<td>373.8 [14.72]</td>
<td>[3.00] 76.2</td>
</tr>
<tr>
<td>503.8 [19.83]</td>
<td>[3.00] 76.2</td>
</tr>
<tr>
<td>35.77 [1.41]</td>
<td>[3.00] 76.2</td>
</tr>
</tbody>
</table>

Note: mm/[Inches]

Dimensions and technical information are subject to change without notice
SLIP SHEET PICK AND PLACE OPTION

Bag Gripping and Palletizing Solutions | Dimensions

4.00” [101.6mm]

Model Number | Weight
--- | ---
DBG50-2-PU4-SP | [11 lb] 5 kg

Add to base model weight

vented Probe:
(removed after installation & setup)

6.00” [152.4mm]

Model Number | Weight
--- | ---
DBG100-2-PU6-SP | [23 lb] 10 kg

Add to base model weight

Note: mm/Inches

Dimensions and technical information are subject to change without notice
**PNEUMATIC BACK-UP OPTION**

Bag Gripping and Palletizing Solutions | Dimensions

**Model Number | Weight**
---|---
DBG50-2-PU4-BU | [8 lb] 3.6 kg
Add to base model weight

**Model Number | Weight**
---|---
DBG100-2-PU6-BU | [20 lb] 9 kg
Add to base model weight

*Note: mm/[Inches]*
**TRAVEL SPRING BACK-UP OPTION**

Bag Gripping and Palletizing Solutions | Dimensions

2.00” [50.8mm]

Model Number | Weight
---|---
DBG50-2-SU2 | [6.4 lb] 2.9 kg
Add to base model weight

3.00” [76.2mm]

Model Number | Weight
---|---
DBG100-2-SU3 | [12.4 lb] 5.6 kg
Add to base model weight

Note: mm/[Inches]

Dimensions and technical information are subject to change without notice
## Pallet Pick and Place Option

Bag Gripping and Palletizing Solutions | Dimensions

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG50-2-PP</td>
<td>[29 lb] 13 kg</td>
</tr>
</tbody>
</table>

Add to base model weight

### Dimensions and Technical Information

- **DBG50-2-PP**:
  - Set-Up MIN: 1418.1 mm
  - Set-Up MAX: 1503.7 mm
  - Height: 405.7 mm
  - Height MIN: 373.5 mm
  - Height MAX: 480.3 mm

- **DBG100-2-PP**:
  - Set-Up MIN: 508.0 mm
  - Set-Up MAX: 513.7 mm
  - Height: 405.7 mm
  - Height MIN: 373.5 mm
  - Height MAX: 480.3 mm

Note: mm/Inches
**CONTROLS AND VALVE PACKAGE OPTION**

Bag Gripping and Palletizing Solutions | Dimensions

---

### Model Number: DBG50-2-CP

| Weight | 2.3 kg |
| Model Number | DBG50-2-CP |
| [5 lb] | Add to base model weight |

---

### Model Number: DBG100-2-CP

| Weight | 2.3 kg |
| Model Number | DBG100-2-CP |
| [5 lb] | Add to base model weight |

---

**Note:** mm/[Inches]
DBG-2-CP-KIT CONTROLS PACKAGE

Bag Gripping and Palletizing Solutions | Dimensions | Technical Specifications

For Base Model

Dimensions and technical information are subject to change without notice

DESTACO
For Slip Sheet Pick and Place

Dimensions and technical information are subject to change without notice.
FIELD INSTALLATION SLOTTED REAR PANEL

For Pneumatic Back-up

Dimensions and technical information are subject to change without notice
For Pallet Pick and Place/Pneumatic Back-up
• Aluminum welded construction
• Painted safety orange
• Available in 100, 125, 160 & 200mm bolt circles
  (Custom stand-offs available upon request)
• Bolts for mounting to bag gripper are included

Robot Mount Stand-Off with Ø125 Bolt Circle Pattern
DBG50-2-S04-125BC-KIT

Ø100 & Ø200 Bolt Circle Patterns are Available

Robot Mount Stand-Off with Ø160 Bolt Circle Pattern
DBG100-2-S04-160BC-KIT

Ø125 & Ø200 Bolt Circle Patterns are Also Available

Dimensions and technical information are subject to change without notice
ROBOT STAND-OFF ADAPTOR

Bag Gripping and Palletizing Solutions | Dimensions | Technical Specifications

Material: Aluminum painted safety orange
(4) M10 SHCS & Lock washers included

Model Number | H [inch]/[mm] | Weight [lb]
--- | --- | ---
DBG50-2-504-100BC-KIT | [4.00] 101.6 | 2.2 kg
DBG50-2-506-100BC-KIT | [6.00] 152.4 | 2.5 kg

Note: mm/[Inches]

Material: Aluminum painted safety orange
(4) M10 SHCS & Lock washers included

Model Number | H [inch]/[mm] | Weight [lb]
--- | --- | ---
DBG50-2-504-125BC-KIT | [4.00] 101.6 | 2.6 kg
DBG50-2-506-125BC-KIT | [6.00] 152.4 | 2.9 kg

Note: mm/[Inches]

Material: Aluminum painted safety orange
(4) M10 SHCS & Lock washers included

Model Number | H [inch]/[mm] | Weight [lb]
--- | --- | ---
DBG50-2-504-200BC-KIT | [4.00] 101.6 | 3.6 kg
DBG50-2-506-200BC-KIT | [6.00] 152.4 | 3.9 kg

Note: mm/[Inches]

Dimensions and technical information are subject to change without notice.
### ROBOT STAND-OFF ADAPTOR

Bag Gripping and Palletizing Solutions | Dimensions | Technical Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>H [inch]/mm</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG100-2-S04-125BC-KIT</td>
<td>[4.00]</td>
<td>[4.4 lb]</td>
</tr>
<tr>
<td>DBG100-2-S06-125BC-KIT</td>
<td>[6.00]</td>
<td>[5.0 lb]</td>
</tr>
<tr>
<td>DBG100-2-S04-160BC-KIT</td>
<td>[4.00]</td>
<td>[4.0 lb]</td>
</tr>
<tr>
<td>DBG100-2-S06-160BC-KIT</td>
<td>[6.00]</td>
<td>[4.6 lb]</td>
</tr>
<tr>
<td>DBG100-2-S04-200BC-KIT</td>
<td>[4.00]</td>
<td>[4.9 lb]</td>
</tr>
<tr>
<td>DBG100-2-S06-200BC-KIT</td>
<td>[6.00]</td>
<td>[5.4 lb]</td>
</tr>
</tbody>
</table>

Material: Aluminum painted safety orange
(6) M10 SHCS & Lock washers included

**Note:** mm/Inches

Dimensions and technical information are subject to change without notice.