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)

Robot Mount Stand-Off (Sold Separately)

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>Unit Weight:</td>
<td>17kg [38 lbs]</td>
<td>43kg [95 lbs]</td>
</tr>
<tr>
<td>Maximum Payload:</td>
<td>23Kg [50 lbs]</td>
<td>45Kg [100 lbs]</td>
</tr>
<tr>
<td>Maximum Bag Size:</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

**Base Model**
- DBG50-2
- DBG100-2

**Options**
- SU2: 2 Inches Spring Back-up
- PU4-BU: 4 Inches Pneumatic Back-up
- PU4-SP: 4 Inches Pneumatic Slip Sheet Pick
- SU3: 3 Inches Spring Back-up
- PU6-BU: 6 Inches Pneumatic Back-up
- PU6-SP: 6 Inches Pneumatic Slip Sheet Pick

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

Note: Leave blank if option is not required.

Dimensions and technical information are subject to change without notice.
Options

**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)

**PU(x)-BU Pneumatic Back-Up Option**

- The pneumatic compensator is extended to contact the product for additional stability and control while in motion.
- 4” Stroke for DBG50-2 (PU4-BU)
  (Add option weight of 3.6kg [8 lbs] to base model)
- 6” Stroke for DBG100-2 (PU6-BU)
  (Add option weight of 9kg [20 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)
**DBG50 SERIES**

Bag Gripping and Palletizing Solutions | Dimensions

![Diagram of a bag gripping and palletizing solution](image)

**Model Number**

<table>
<thead>
<tr>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG50-2</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

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]

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG50-2-PU4-SP</td>
<td>11 lb (5 kg)</td>
</tr>
</tbody>
</table>

Add to base model weight

6.00” [152.4mm]

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG100-2-PU6-SP</td>
<td>23 lb (10 kg)</td>
</tr>
</tbody>
</table>

Add to base model weight

Note: mm/Inches
TRAVEL SPRING BACK-UP OPTION

Bag Gripping and Palletizing Solutions | Dimensions

2.00” [50.8mm]

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG50-2-SU2</td>
<td>[6.4 lb] 2.9 kg</td>
</tr>
</tbody>
</table>

Add to base model weight

3.00” [76.2mm]

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBG100-2-SU3</td>
<td>[12.4 lb] 5.6 kg</td>
</tr>
</tbody>
</table>

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

Model Number | Weight
DBG50-2-PP | [29 lb] 13 kg

Add to base model weight

Model Number | Weight
DBG100-2-PP | [48 lb] 22 kg

Add to base model weight

Note: mm/[Inches]

Dimensions and technical information are subject to change without notice
CONTROLS AND VALVE PACKAGE OPTION

Bag Gripping and Palletizing Solutions | Dimensions

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

Model Number | Weight
---|---
DBG100-2-CP | [5 lb] 2.3 kg
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
DBG-2-CP-PU-SP-KIT CONTROL PACKAGE

Bag Gripping and Palletizing Solutions | Dimensions | Technical Specifications

For Slip Sheet Pick and Place
For Pneumatic Back-up
For Pallet Pick and Place
For Pallet Pick and Place/Slip Sheet Pick and Place