

## DPS SERIES BAG GRIPPER

### DESTACO PALLETIZING SOLUTIONS

DESTACO DPS Palletizing Bag Grippers are designed to be a cost-effective, reliable end-of-line, pick-and-place pneumatic-driven palletizing solution. The DPS series is sold both as a kit for a budget-minded DIYers or as a fully assembled ready to install end effector by DESTACO.

Offered in 3 configurable sizes, 15 kg, 30 kg and 50 kg plus with a variety of straight and angled tine lengths to match bag size application requirements. Bag width adjustment is fast and simple by loosening a couple bolts and sliding each side in and out for optimum gripping.

The DPS bag gripper is a highly configurable off-the-shelf solution with optional standoffs to bolt direct to today's advanced robots. For a proven simple, reliable, maintenance-free end-of-line palletizing operation... choose a DESTACO DPS bag gripper.



(shown with pneumatic bag stabilizers and robot stand-off, sold separately)

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#### PRODUCT HIGHLIGHTS/OPTIONS

- Off-the-shelf kit or fully assembled
- Plug and Play controls
- Integrated open/closed position sensing
- Optional LED Status light indicator
- Adjustable opening angle and bag width



PICK & PLACE

#### FEATURES & BENEFITS



SPEED

- **Speed Matters** - with rapid actuation and lightweight design, the DESTACO bag gripper can palletize up to 30 bags per minute when working in concert with robotic automation.



PERFORMANCE

- **Secure Transfer** - our bag grippers utilize an enclosed, pneumatic toggle-lock power clamp with integrated open/closes sensing to hold bags secure even if air pressure is lost. Simple maintenance-free operation.



INTERCHANGEABLE

- **More Options** - available options include configurable LED status light, slip sheet transfer, plug and play valve/control packages and pneumatically controlled bag stabilizer.



LOGISTICS



ASSEMBLY

APPLICATIONS



INDUSTRIAL



FOOD & PACKAGING



CONSUMER GOODS



LIFE SCIENCES

MARKETS

# DPS SERIES

DESTACO Palletizing Solutions | Bag Gripper

DESTACO Palletizing Solutions (DPS) is a highly configurable, off-the-shelf solution with optional standoffs to bolt direct to today's advanced robots. The DPS Series can be used in pick and place, robotic palletizing and gantry system industrial applications, including food and packaging, chemical and petrochemical, building and construction and consumer goods.

Three (3) Sizes Available:

**DPS15-1P**  
Weight: 20.8 kg [45.8 lb]  
Max Payload:  
Up to 15 kg [33.07 lb]  
Max Bag Size:  
550 x 380 x 150 mm  
[21.6 x 14.96 x 5.90 in]

**DPS30-1P**  
Weight: 27.4 kg [60.5 lb]  
Max Payload:  
Up to 30 kg [66.14 lb]  
Max Bag Size:  
750 x 520 x 150 mm  
[29.5 x 20.47 x 5.90 in]

**DPS50-1P**  
Weight: 35.9 kg [79.2 lb]  
Max Payload:  
Up to 50 kg [110.23 lb]  
Max Bag Size:  
1000 x 615 x 200 mm  
[39.37 x 24.21 x 7.87 in]



Can be Delivered Assembled  
or as a Kit (assembly required)

45° Opening Angle  
Setup Standard  
Can be adjusted in the field

Gripper Fingers  
Field Adjustable Spacing  
(recommended spacing for 2.5" roller conveyors: 3.00")

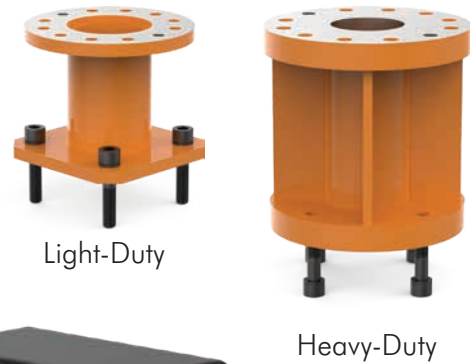
Straight Tines offer more surface  
area for supporting the bag

10° Angled Tines allows bag  
to be lifted without piercing

Available Tine Lengths:

- 120 mm [4.72 in]
- 160 mm [6.30 in]
- 220 mm [8.66 in]
- 280 mm [11.02 in]

Optional Robot Arm Stand-Offs



For more information on  
options shown, see back page.



Optional I/O (Discrete) Controls with directional solenoid valves  
(cabling and air lines included)



Optional Visual Status Indicator



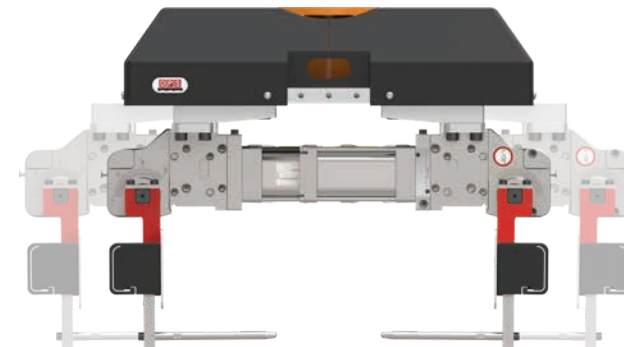
Optional Add-Ons (mounted in pairs)

2X Pneumatic  
Bag Stabilizer

2X Pneumatic  
Slip Sheet Pick



Adjustable payload width  
for package size flexibility



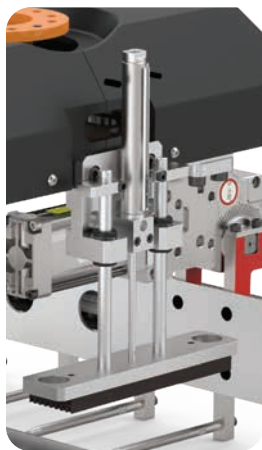
Dimensions and technical information are subject to change without notice

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## DPS Series Bag Gripper Options

The DPS bag gripper offers bolt-on optional accessories that can be added in the field at any time including a bag load stabilizer, slip sheet pick, plug and play controls and LED status light indicator.

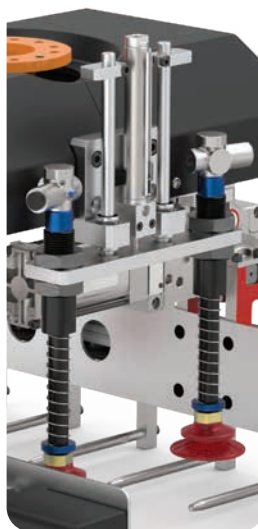


### Pneumatic Bag Stabilizers

- The pneumatic stabilizer works in concert with the DPS bag gripper to secure filled bags during transfer
- 100 mm Stroke

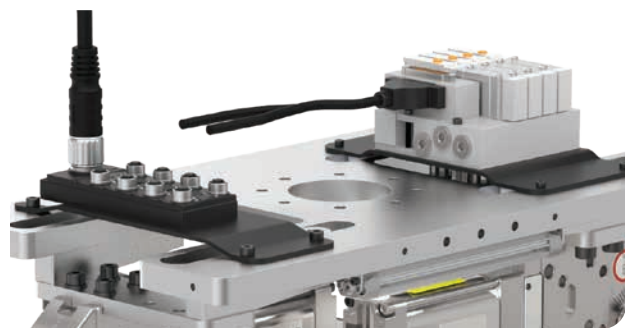


Mounted in pairs



### Pneumatic Slip Sheet Pick

- Used for transferring thin sheets of cardboard or plastic (slip sheets) that are used to separate layers of bags on a pallet
- Built-in vacuum generators with easy retract adjustment and replaceable vacuum cups
- Easy slip sheet adjustment with sensor feedback for PLC control



### Plug and Play Control Options

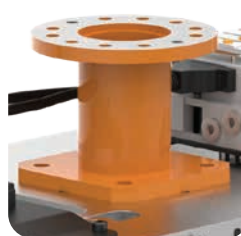
Control options include cables to connect all components and mounting hardware.

- (C1) Standard I/O Control: Supports the base bag gripper with limited accessory expansions
- (C2) Expanded I/O Control: Provides additional I/O capacity for increased configurations, including pallet pick and multiple accessories
- C2 I/O controls option is PROFINET, EtherNet/IP, Modbus TCP and CC-Link IE compatible with a built-in Ethernet switch



### Visual Status Indicator

- PLC-controlled RGB-W status light provides a clear visual indication of the gripper or automation line status
- Programmable red, yellow, and green color states help operators quickly identify running, warning, or fault conditions



### Robot Stand-Off (sold separately)

- Steel welded construction
- Painted safety orange
- Hardware for mounting to bag gripper are included

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