Accelerate® Vacuum Cups Series

Designed to go the Distance

Destaco adds a new line of vacuum cups to its Accelerate® collection of light weight tooling and gripping products. The Accelerate® vacuum cups are made of durable long-lasting polyurethane, and feature high friction, anti-slip treading. This material and tread combination gives these cups an excellent sealing capability with a fast firm grip, a long shelf life, and improved shape memory retention.

Accelerate® vacuum cups provides customers the ability to increase their productivity while handling oily parts securely in high-speed press applications. Flexible mounting options make our vacuum cups easy to install into new and existing applications.

**Product Highlights/Options**

- Five styles, 20 sizes available
- Excellent shelf life
- High friction/anti-slip
- Operating temperature: 50-122°F [10-50°C]
- Optional lightweight plastic mount

**Features, Markets and Applications**

### SPEED

- Designed to handle higher acceleration/deceleration speeds
- Superior holding and gripping on oily surfaces
- Shape and design offers better transverse loading

### LOW/NO MAINTENANCE

- Resistant to oils, UV light and Oxygen
- No dry rotting or cracking - better elastic memory
- High wear resistance - decreased downtime

### INTERCHANGEABLE

- Interchangeable with existing or competitor vacuum cups
- Design for easy installation

Dimensions and technical information are subject to change without notice.
ACCELERATE® COLLECTION VACUUM CUPS

Accelerate® Polyurethane Round Vacuum Cups

**Round TC Series**

**Round Bellows Vacuum Cups**
- For applications with slick/oily surfaces or for destackers
- Bellows add flexibility for minor misalignments
- TCT (Triple durometer) style cup offers extra soft internal cleat to eliminate possible dimples on thin sheet metal

Ø30mm ................................................. VC-30TC-(M)-PU55
Ø45mm ................................................. VC-40TC-(M)-PU55
Ø61mm ................................................. VC-60TC-(M)-PU55
Ø85mm ................................................. VC-80TC-(M)-PU55
Ø85mm ............................................... VC-80TCT-(M)-PU55
Ø115mm ............................................. VC-110TC-(M)-PU55
Ø115mm ............................................. VC-110TCT-(M)-PU55

**Round FF Series**

**Round Flat Foot Vacuum Cups**
- Works well on flat to slightly contoured parts
- Maximizes lifting capacity and minimizes slip
- Excellent for transverse loads with high acceleration and deceleration applications

Ø25mm ................................................. VC-25FF-(M)-PU55
Ø35mm ................................................. VC-35FF-(M)-PU55
Ø50mm ................................................. VC-50FF-(M)-PU55
Ø75mm ................................................. VC-75FF-(M)-PU55
Ø100mm ............................................. VC-100FF-(M)-PU55
Ø125mm ............................................. VC-125FF-(M)-PU55

**Round DD Series**

**Round Deepdish Vacuum Cups**
- Thin, bell shaped body design will easily follow convex or concave surfaces
- Refined internal friction pattern provides additional grip performance, these vacuum cups can withstand high shear forces
- Performs well in vertical and horizontal applications

Ø67.5mm ............................................. VC-65DD-(M)-PU60
Ø92.5mm ............................................. VC-90DD-(M)-PU60
Ø112.5mm ........................................ VC-110DD-(M)-PU60
Accelerate® Collection Vacuum Cups

Oval TC Series
Oval Bellows Vacuum Cups
- Works well on flat and contoured parts
- Maximum lifting capacity where limited space is available
- Bellows add flexibility for minor misalignments

Ø33x105mm ................................... VC-35-90TC-(M)-PU55
Ø50x157mm .................................. VC-50-140TC-(M)-PU55
Ø82x187mm .................................. VC-65-170TC-(M)-PU55

Oval FF Series
Oval Flat Foot Vacuum Cups
- Works well on flat to slightly contoured parts
- Long oval shape maximizes contact on narrow panels
- Cleats provide full support to prevent damage to thin outer panel

Ø24x84mm .................................... VC-20-80FF-(M)-PU55
Ø33x93mm .................................... VC-30-90FF-(M)-PU55
Ø43x113mm .................................. VC-40-110FF-(M)-PU55

Accelerate® Polyurethane Oval Vacuum Cups


Used with Accelerate® Lightweight Tooling
This is a complete end-of-arm tooling system designed to offer customers a lightweight, flexible solution for press shop automation. Accelerate® tooling can be used in traditional and high speed saddle crossbar, interpress crossbar and tri-axis press lines, as well as lower nest tooling and fixtures.
- Constructed with high-strength aluminum
- 50% lighter than standard round tooling

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Accelerate® Vacuum Cups Durometer

**PU55/PU60**

This durable long-lasting polyurethane material is resistant to oils, UV light and oxygen. No dry rotting or cracking with better elastic memory.

High Friction, Anti-Slip Treading

The Accelerate® Vacuum Cups feature a high friction, anti-slip treading that allows for superior holding and gripping on oily surfaces.

Application, Characteristics and Usage Chart

<table>
<thead>
<tr>
<th>Polyurethane Vacuum Cups</th>
<th>Application</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round Bellows Vacuum Cups</td>
<td>4 5 4 2 5 5 N/A</td>
<td>VERTICAL</td>
</tr>
<tr>
<td>Round Flat Foot Vacuum Cups</td>
<td>5 3 1 5 5 N/A</td>
<td>HORIZONTAL</td>
</tr>
<tr>
<td>Round Deepdish Vacuum Cups</td>
<td>4 5 2 4 5 N/A</td>
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<tr>
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<td>Oval Flat Foot Vacuum Cups</td>
<td>3 3 2 2 5 N/A</td>
<td>HORIZONTAL</td>
</tr>
</tbody>
</table>

**Worst Cup for the Job** 1 2 3 4

**Best Cup for the Job** 1 2 3 4

**Not Advised for the application** N/A

This chart is a guide to aid in selecting the right family of cup for general surfaces, contours, and applications.

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