

# 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

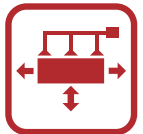
- Five styles, 20 sizes available
- Excellent shelf life
- High friction/anti-slip
- Operating temperature: 50-122°F [10-50°C]
- Optional lightweight plastic mount



### Features, Markets and Applications

<p>SPEED</p>	<ul style="list-style-type: none"> <li>• Designed to handle higher acceleration/deceleration speeds</li> <li>• Superior holding and gripping on oily surfaces</li> <li>• Shape and design offers better transverse loading</li> </ul>	<p>AUTOMOTIVE</p>	<p>STAMPING</p>
<p>LOW/NO MAINTENANCE</p>	<ul style="list-style-type: none"> <li>• Resistant to oils, UV light and Oxygen</li> <li>• No dry rotting or cracking - better elastic memory</li> <li>• High wear resistance - decreased downtime</li> </ul>	<p>INDUSTRIAL</p>	<p>ASSEMBLY</p>
<p>INTERCHANGEABLE</p>	<ul style="list-style-type: none"> <li>• Interchangeable with existing or competitor vacuum cups</li> <li>• Design for easy installation</li> </ul>	<p>AEROSTRUCTURE</p>	<p>WELDING</p>
		<p>CONSUMER GOODS</p>	<p>FIXTURE/TESTING</p>

# ACCELERATE® COLLECTION VACUUM CUPS



PICK AND PLACE

## Accelerate® Polyurethane Round Vacuum Cups



### Round TC Series

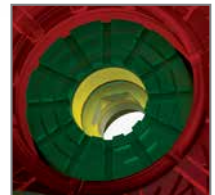
#### Round Bellows Vacuum Cups

- 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

TCT (triple durometer) style cup offers extra soft, 30 durometer, internal cushion (yellow) to eliminate possible dimples on thin sheet metal.



### 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

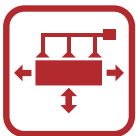
### Round DD Series

#### 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



PICK AND PLACE

# ACCELERATE® COLLECTION VACUUM CUPS



## Accelerate® Polyurethane Oval 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



Positioning Kit (for G38 and P38 thread mounts only). Sold separately.  
Order No. **CPI-LNB-VSA-19**.  
Includes (1) O-ring and (1) locknut.

### 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 Vacuum Cup Mounting Options "M"



**U38**  
3/8 NPT  
Brass



**G38**  
3/8 G  
Brass



**Mount C**  
1.25 inch  
Square



**P38**  
3/8 G  
Nylon

## 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



## 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

Polyurethane Vacuum Cups	DESTACKER APPLICATION	FLAT CONTOURS	MILD CONTOURS	HIGH CONTOURS	SLICK/OILY SURFACES	DRY SURFACES	HOT FORMING	Application Direction
	↑	→	→	→	→	→	↑	
 Round Bellows Vacuum Cups	4	5	4	2	5	5	N/A	↑ VERTICAL
	N/A	5	3	1	5	5	N/A	← → HORIZONTAL
 Round Flat Foot Vacuum Cups	4	4	5	2	4	5	N/A	↑ VERTICAL
	N/A	4	5	2	4	5	N/A	← → HORIZONTAL
 Round Deepdish Vacuum Cups	3	4	5	5	4	5	N/A	↑ VERTICAL
	3	4	5	5	4	5	N/A	← → HORIZONTAL
 Oval Bellows Vacuum Cups	3	4	4	2	4	5	N/A	↑ VERTICAL
	N/A	4	3	2	3	5	N/A	← → HORIZONTAL
 Oval Flat Foot Vacuum Cups	3	4	3	2	3	5	N/A	↑ VERTICAL
	N/A	3	3	2	2	5	N/A	← → HORIZONTAL

1 2 3 4 5
 Worst Cup for the Job      Best Cup for the Job      N/A Not Advised for the application

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

Dimensions and technical information are subject to change without notice.

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