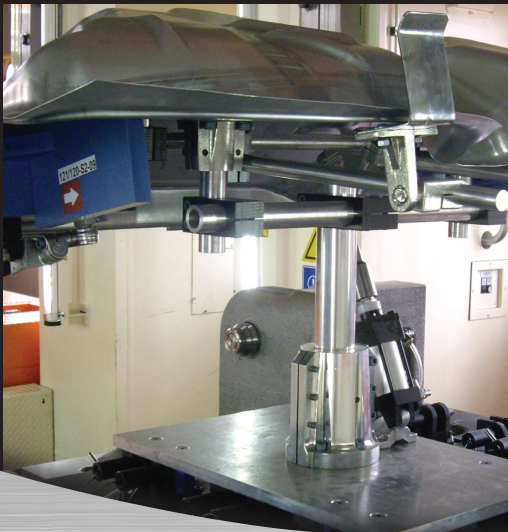
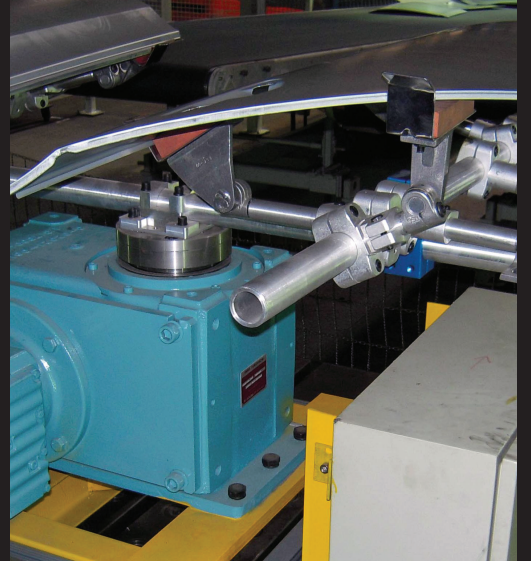
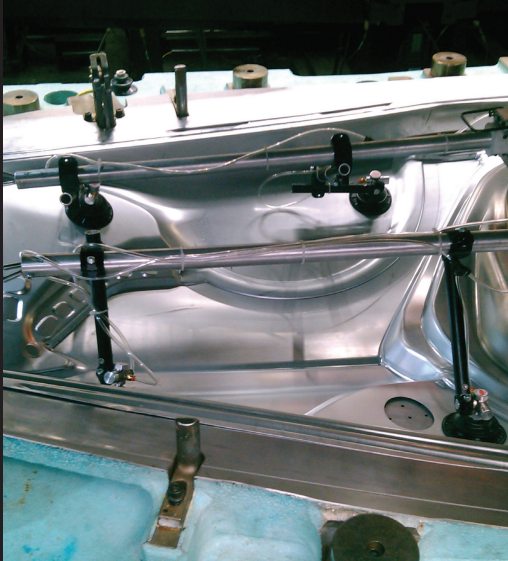
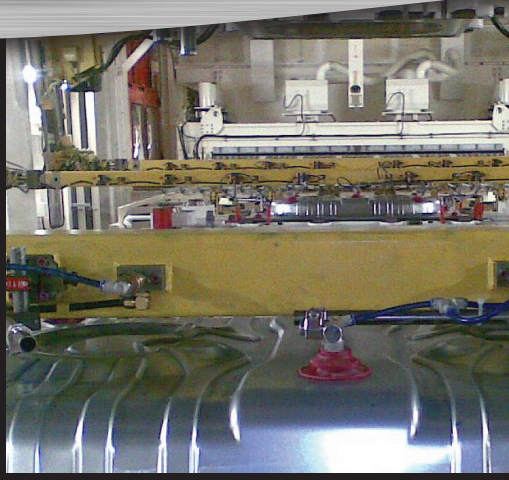
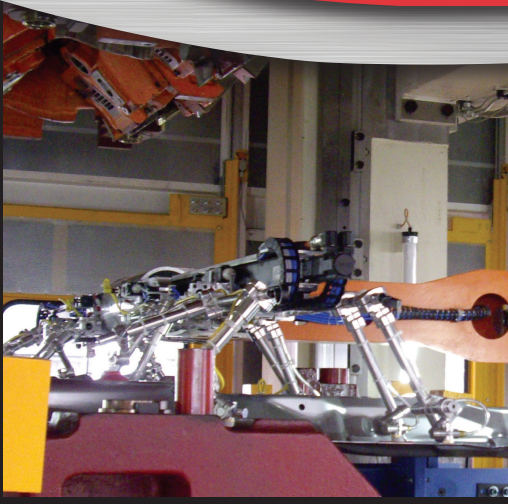


# Press Room Catalog



**destaco.com**  
STAY Informed | STAY Connected | STAY Productive



A DOVER COMPANY





With a support network spanning the globe, DE-STA-CO offers consistent, comprehensive service to any location in the world. Whether your operations are localized or span multiple continents, you will always have access to the highest levels of customer service and technical support.

Since our founding in 1915, DE-STA-CO continues to provide innovative workholding and automation solutions. We are honored to work alongside our global customers to achieve our key mission, which encompasses:

- Providing world-class service and operational excellence
- Increasing customer productivity through customized solutions
- Developing products to meet unique application needs
- Consistency in our on-time delivery promise
- Ensuring top value throughout our product catalog

### DE-STA-CO provides productivity solutions to a diverse range of market segments

- Aerospace
- Automotive/transportation
- Consumer products
- Food and packaging
- Plastic injection molding
- Medical
- Defense







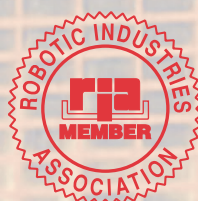
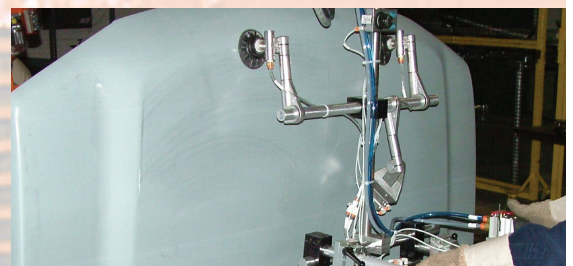
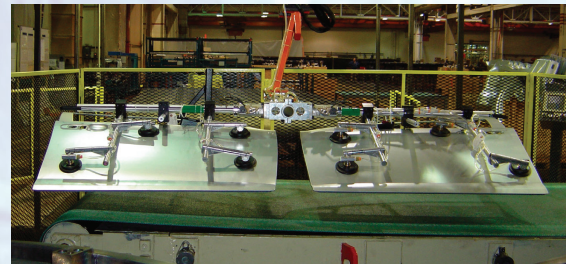
**DE-STA-CO has been providing end effector solutions in nearly every global market segment for over 25 years**

DE-STA-CO offers full-service comprehensive design and manufacturing of world class end effector solutions. Our global application engineers work with customers from concept to commision to design and build a system tailored to each unique application and turnkey project. Our teams possess extensive experience in providing end effector solutions for several market segments including:

- Pressroom stamping
- Welding and assembly
- Plastic injection molding
- Packaging
- Palletizing

DE-STA-CO has a proud history of providing complete material and part handling solutions designed to increase productivity. Our end effectors are widely used in applications such as:

- Robotic load and unload
- Geo-docking and fixture welding
- Tri-axis press transfer
- Tandem press transfer
- High-speed and traditional crossbar press transfer
- Bag and box palletizing
- Plastic injection molding part unload
- Manual lift assist
- Hot forming







## LWT Accelerate® Lightweight Tooling System



The Accelerate Collection of lightweight end effector tooling is designed to optimize your productivity by 25 to 30%. This collection of lightweight components, made of high strength aluminum, reduces weight up to 50%, resulting in improved ergonomics and less maintenance downtime.



Large Tube

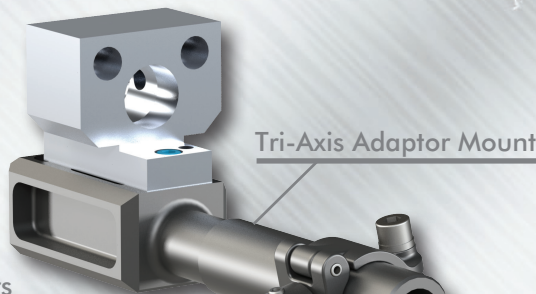
M8 Fasteners

## LWT Saddle Crossbar Tool Example

Crossbar Saddle w/Air (Right Hand Shown)

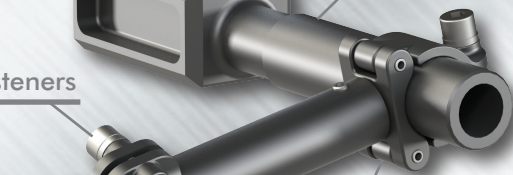
T-Clamp with Swivel Ball Mount

Port Only Adaptor



Tri-Axis Adaptor Mount

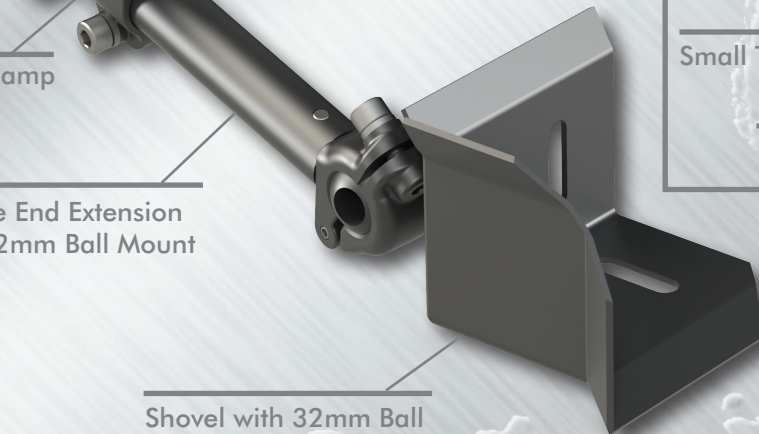
M8 Fasteners



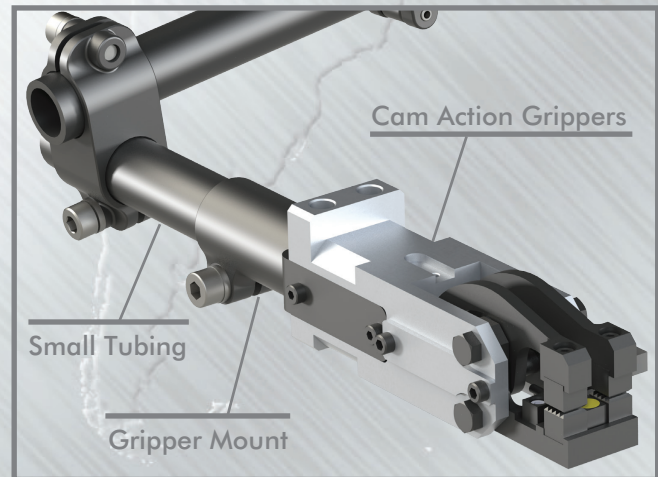
Single End Extension

Cross Clamp

Single End Extension with 32mm Ball Mount



Shovel with 32mm Ball



Cam Action Grippers

Small Tubing

Gripper Mount

## LWT Tri-Axis Tool Example





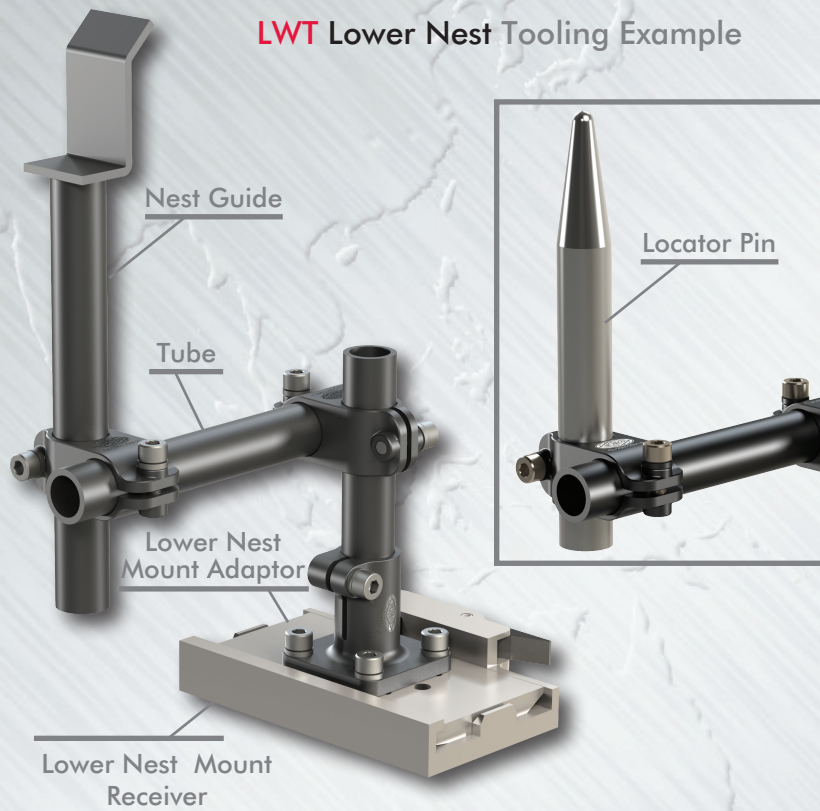
LWT Accelerate® Lightweight Tooling System

Most commonly used in:

Applications	Markets
Load and Unload	Automotive
Hi-Speed Automation	Transportation
Crossbar Transfer	Plastic Injection Molding
Tri-Axis Transfer	
Material Handling	



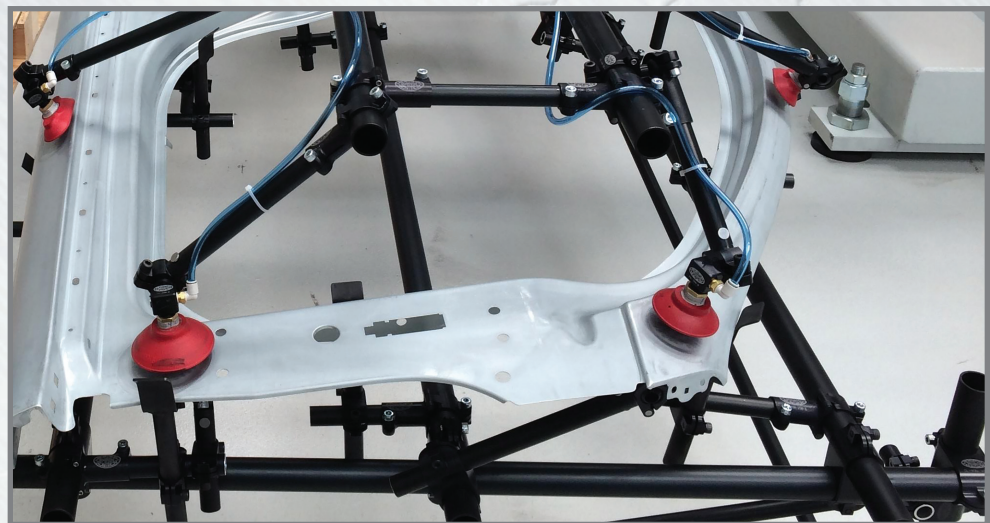
LWT Lower Nest Tooling Example



Designed to **Accelerate** Your Productivity

The Accelerate Collection will help you move parts faster in today's production line.

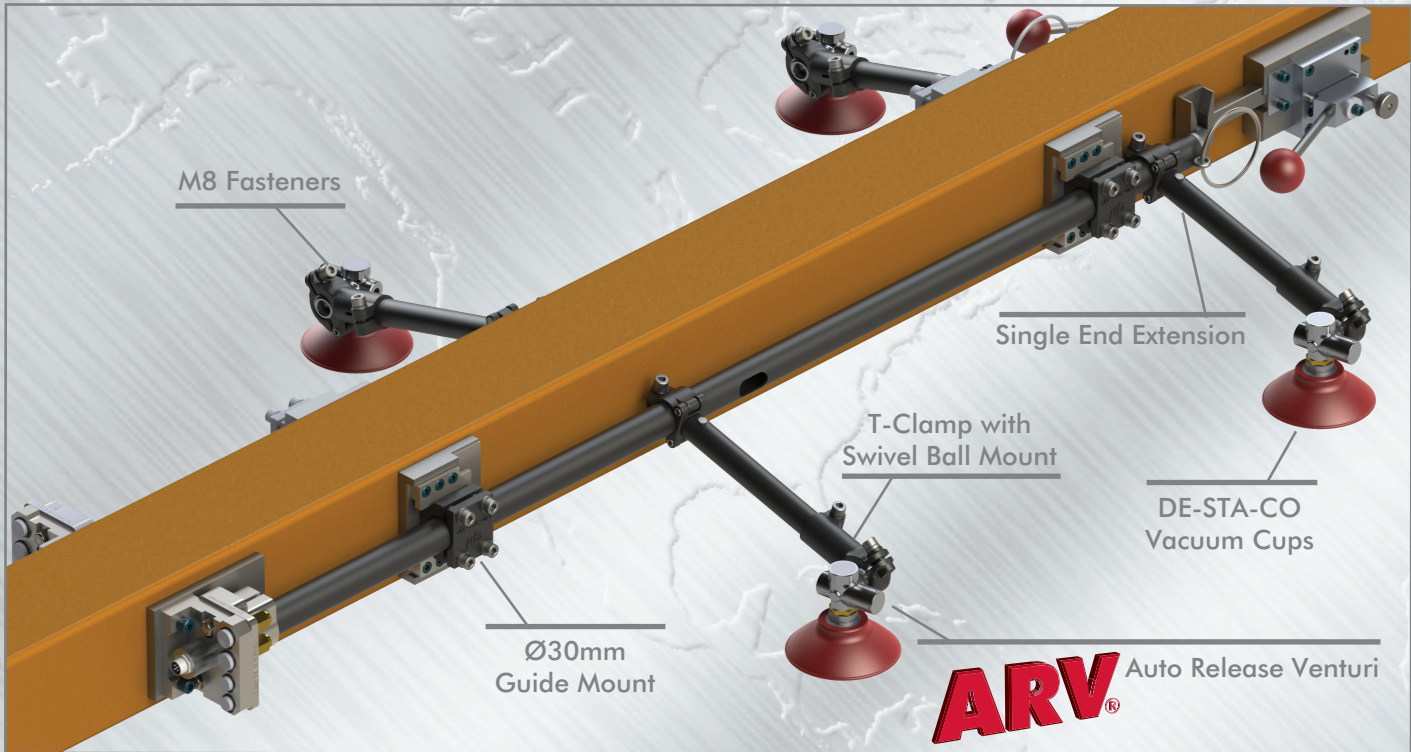
DE-STA-CO offers local support throughout Europe, Asia, North and South America.







## Interpress Crossbar with Accelerate® Tooling



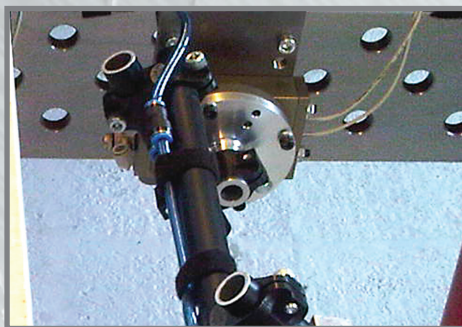
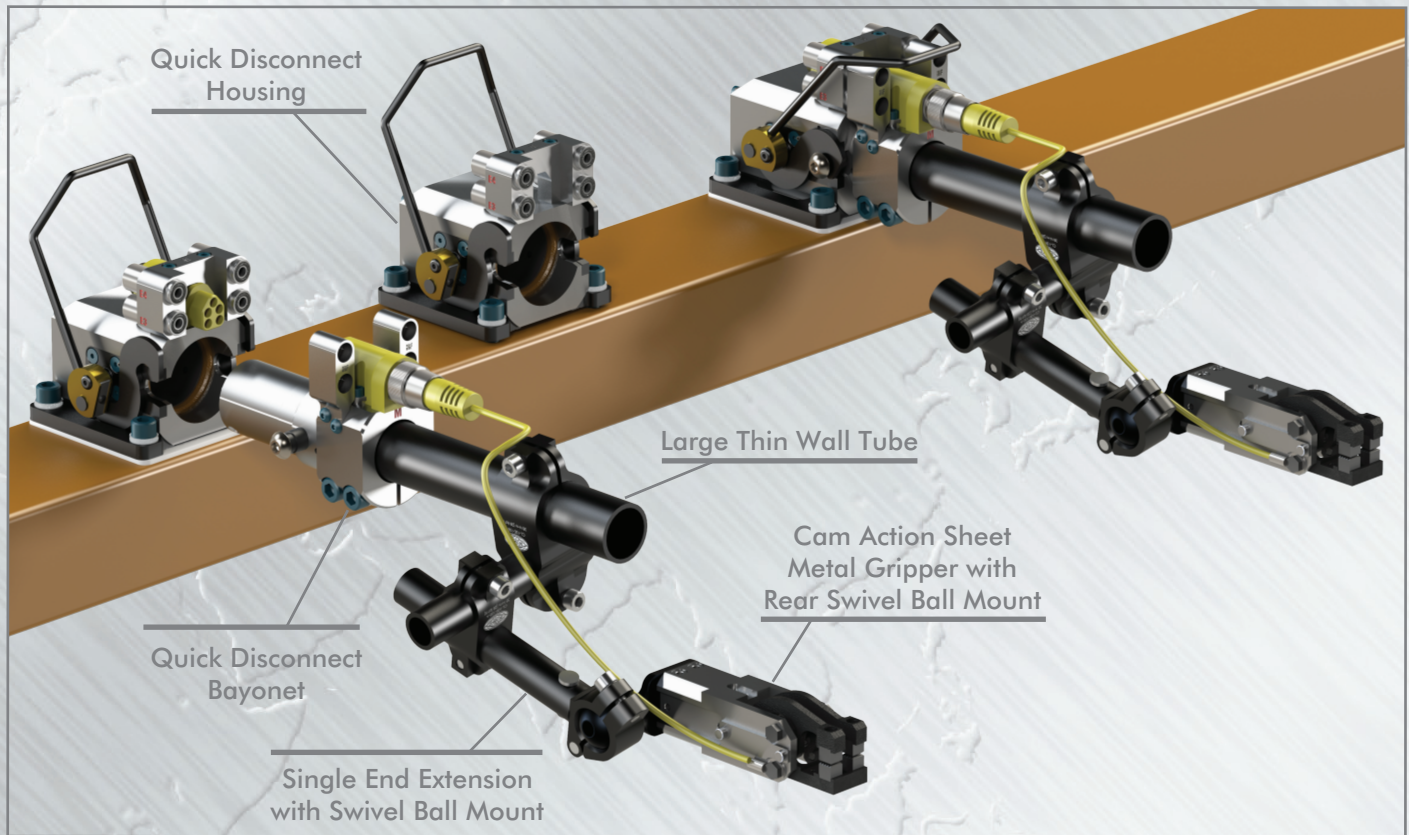
## Split Saddle Crossbar with Accelerate Tooling







Tri-Axis Rail Crossbar with Accelerate® Tooling

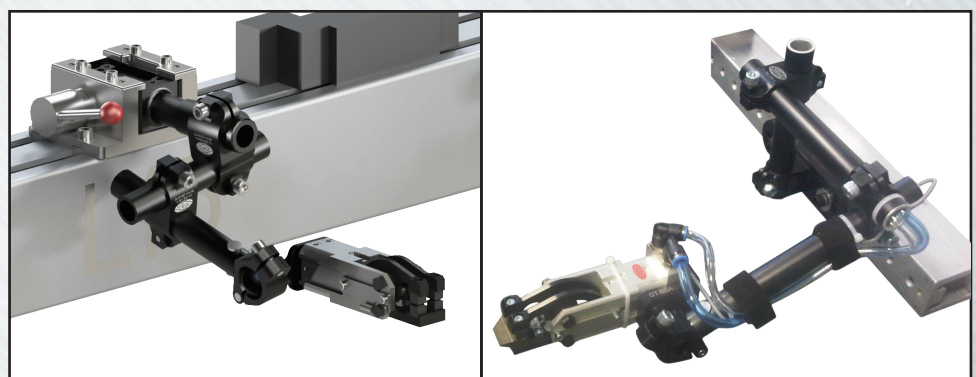


Standard rotary tip unit with Accelerate® tooling

Most commonly used in:

Applications	Markets
Load and Unload	Automotive
High-Speed Automation	Transportation
Crossbar Transfer	Plastic Injection Molding
Tri-Axis Transfer	
Material Handling	

The Accelerate® Collection provides a lightweight and flexible tooling configuration equipped to handle parts of any size and shape throughout the stamping process.

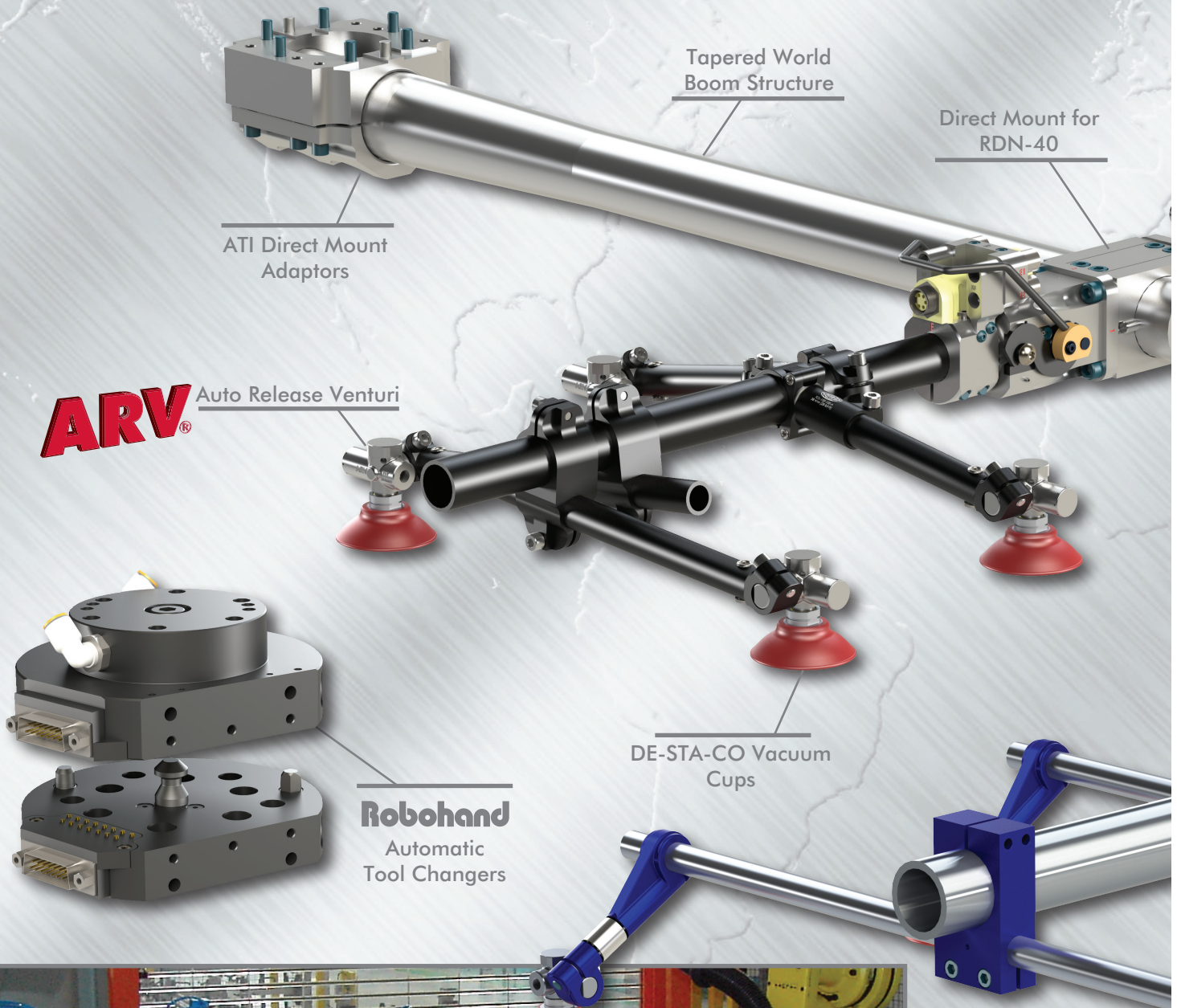






## World Tool Lightweight Boom System

DE-STA-CO's world tool components are configured to handle parts of any size and shape, and can be re-used for future applications.







Round tooling components are used in combination with the Accelerate® Collection for lightweight tooling solutions



Traditional Round Tooling System

Most commonly used in:

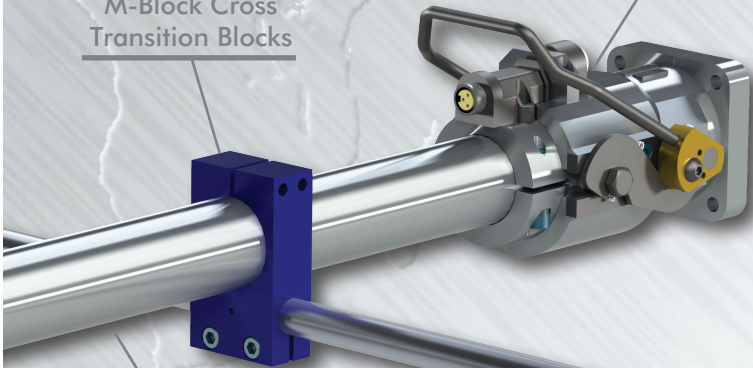
Applications	Markets
Load/Unload Pick and Place Material Handling Hot Forming	Automotive Industrial Appliance Plastics



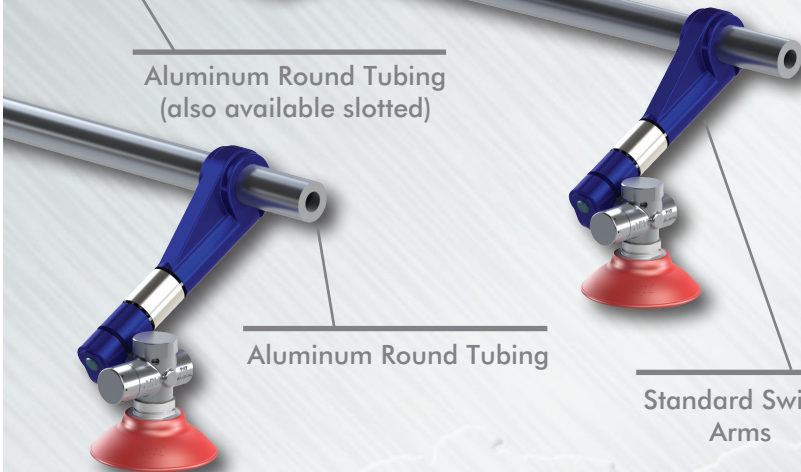
40mm/1.50" Quick Disconnect

60mm/2.50" Quick Disconnect with Electric Connection

M-Block Cross Transition Blocks

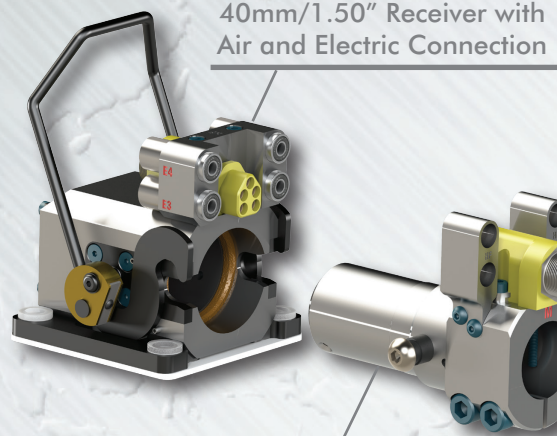


Aluminum Round Tubing (also available slotted)



Aluminum Round Tubing

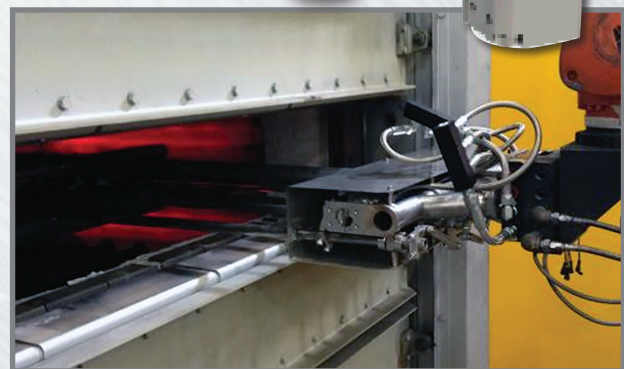
Standard Swivel Arms



40mm/1.50" Receiver with Air and Electric Connection

40mm/1.50" Receiver with Air and Electric Connection

Hot Forming Solutions





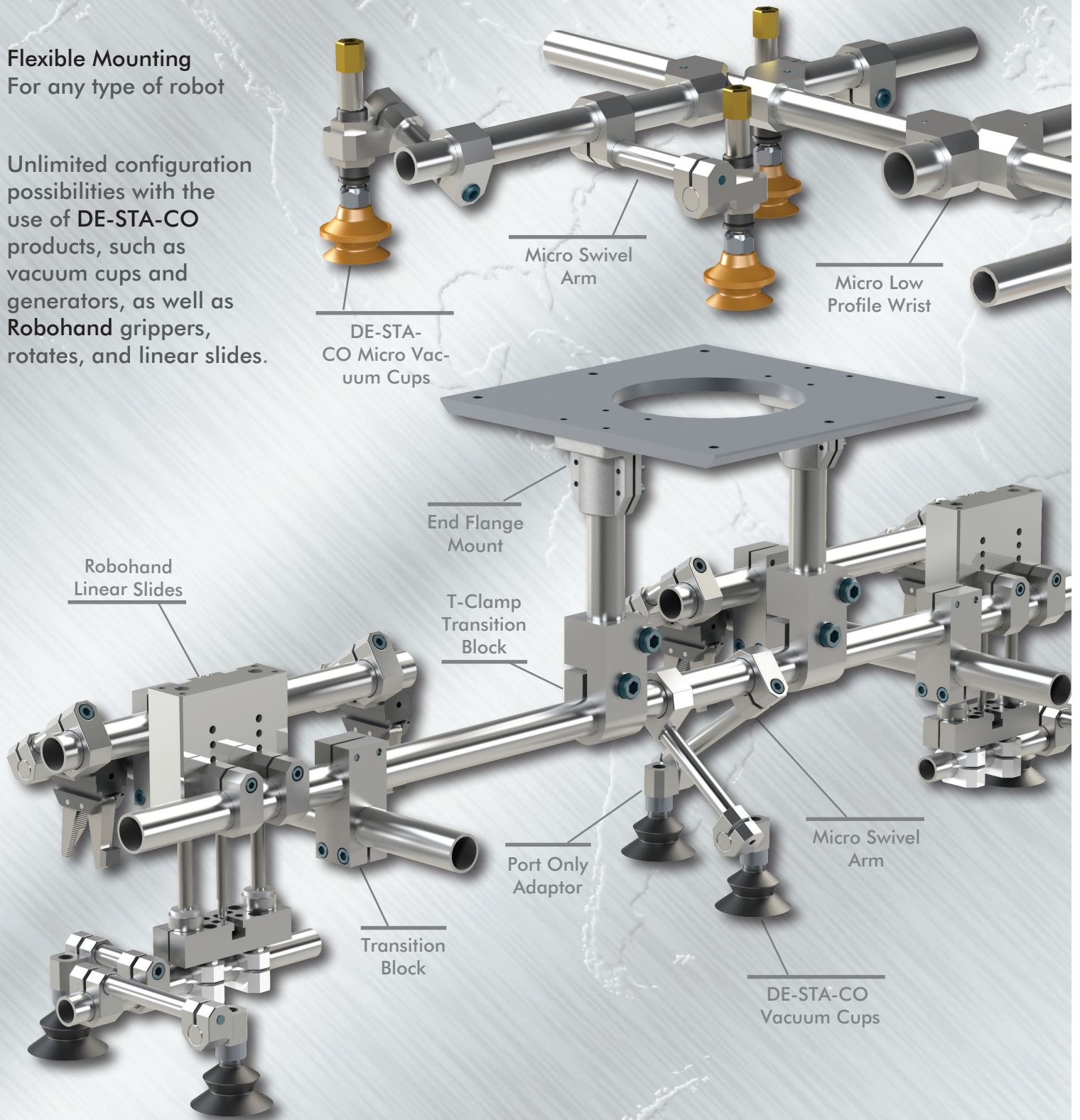


## Micro Round Tooling Components

A family within the traditional round tooling system, micro tooling components are made from lightweight aluminum with thin wall tubing. This system is designed to handle small, lightweight parts, plastic injection mold unloading, and unusual shaped objects.

### Flexible Mounting For any type of robot

Unlimited configuration possibilities with the use of DE-STA-CO products, such as vacuum cups and generators, as well as Robohand grippers, rotators, and linear slides.







Micro Round Tooling Components

25mm/1.00in Quick Disconnect

Most commonly used in:

Applications

Pick and Place  
Material Handling  
Plastic Injection  
Vision/Testing

Markets

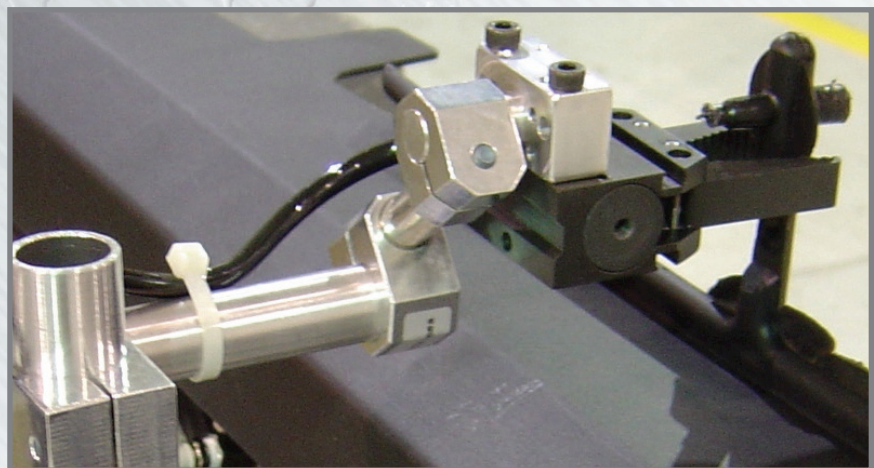
Medical  
Industrial  
Consumer  
Food and Packaging

Level Compensator and Mount

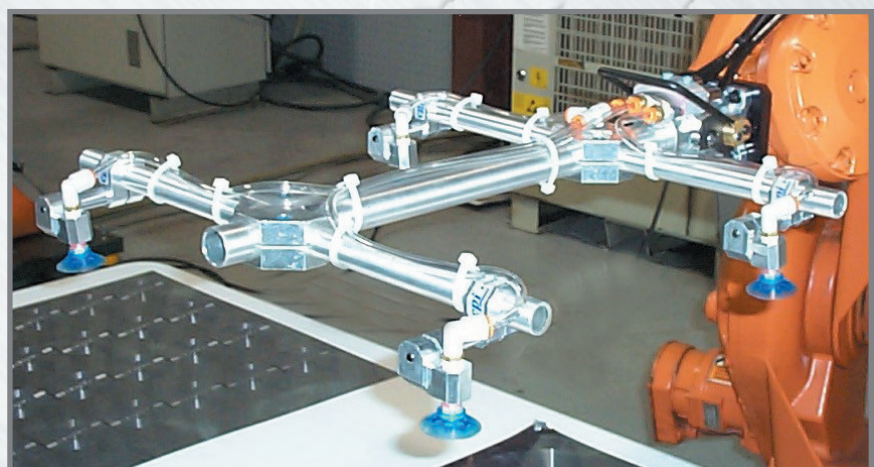
Thin Wall Tubing

The micro tooling system can be used with DE-STA-CO's award winning, world's first electric vacuum cup.

DE-STA-CO Micro Vacuum Cup



Micro round tooling systems can be permanently mounted to the robot with a direct mount or with manual or automatic tool changers. Optional quick disconnect air ports provides a simple connection point for air supply when changing between different tooling configurations.







## DBG DE-STA-CO Bag Gripping and Palletizing Solutions

DE-STA-CO 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

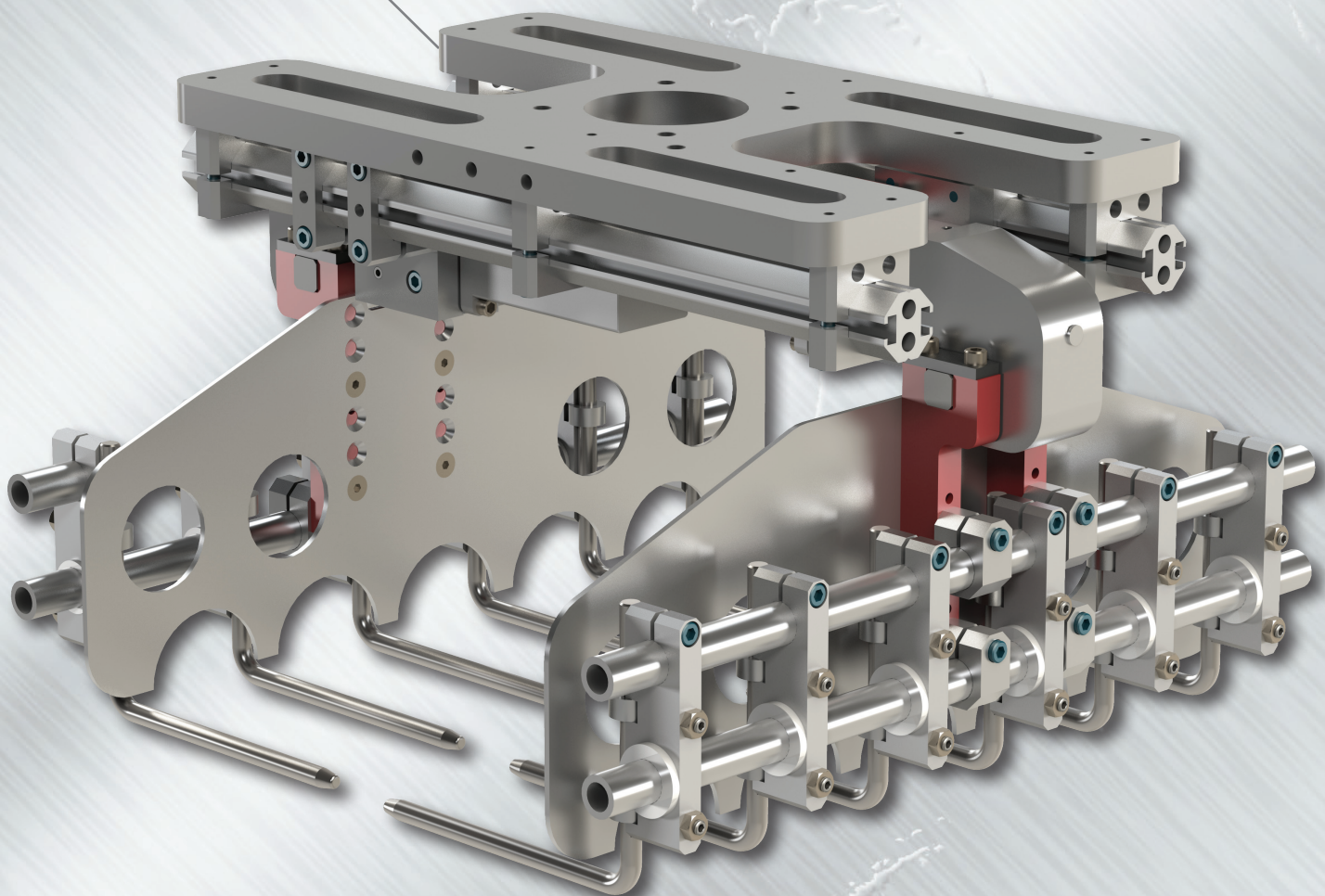
### Three sizes available:

**DBG50** (50lb Max Load)

**DBG100** (100lb Max Load)

**DBG150** (150lb Max Load)

Customer Specified  
Robot Mounting Pattern







**DBG** DE-STA-CO Bag Gripping and Palletizing Solutions

Customizable Adaptor Mounting

**Most commonly used in:**

Applications	Markets
Automated Stacking	Food Packaging
Palletizing	Agriculture
Transferring	Consumer
Custom Solutions	

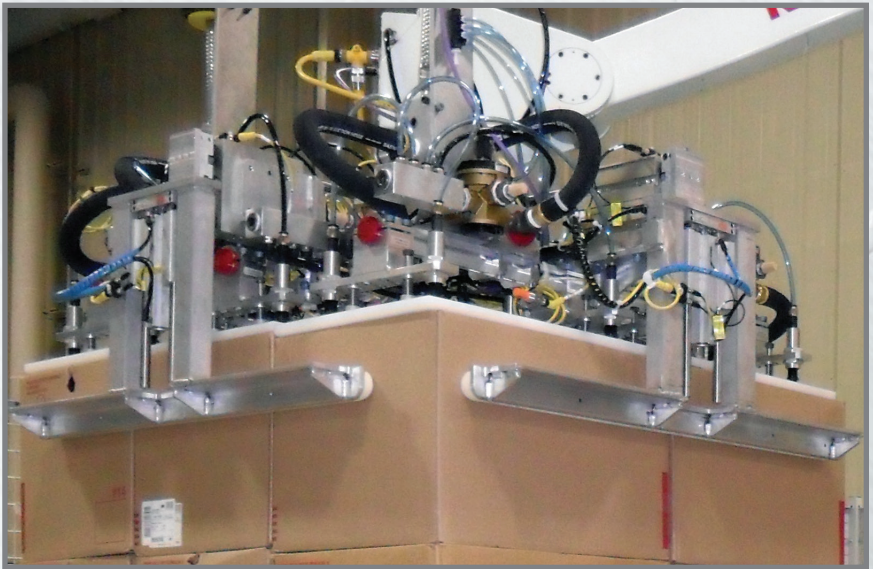
Field-Adjustable Bag Gripper and Pallet Handler fingers

Pallet handler option can be adjusted for different pallet sizes

DE-STA-CO 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.

DE-STA-CO also provides custom design and build solutions for handling any packaging transfer and palletizing needs.





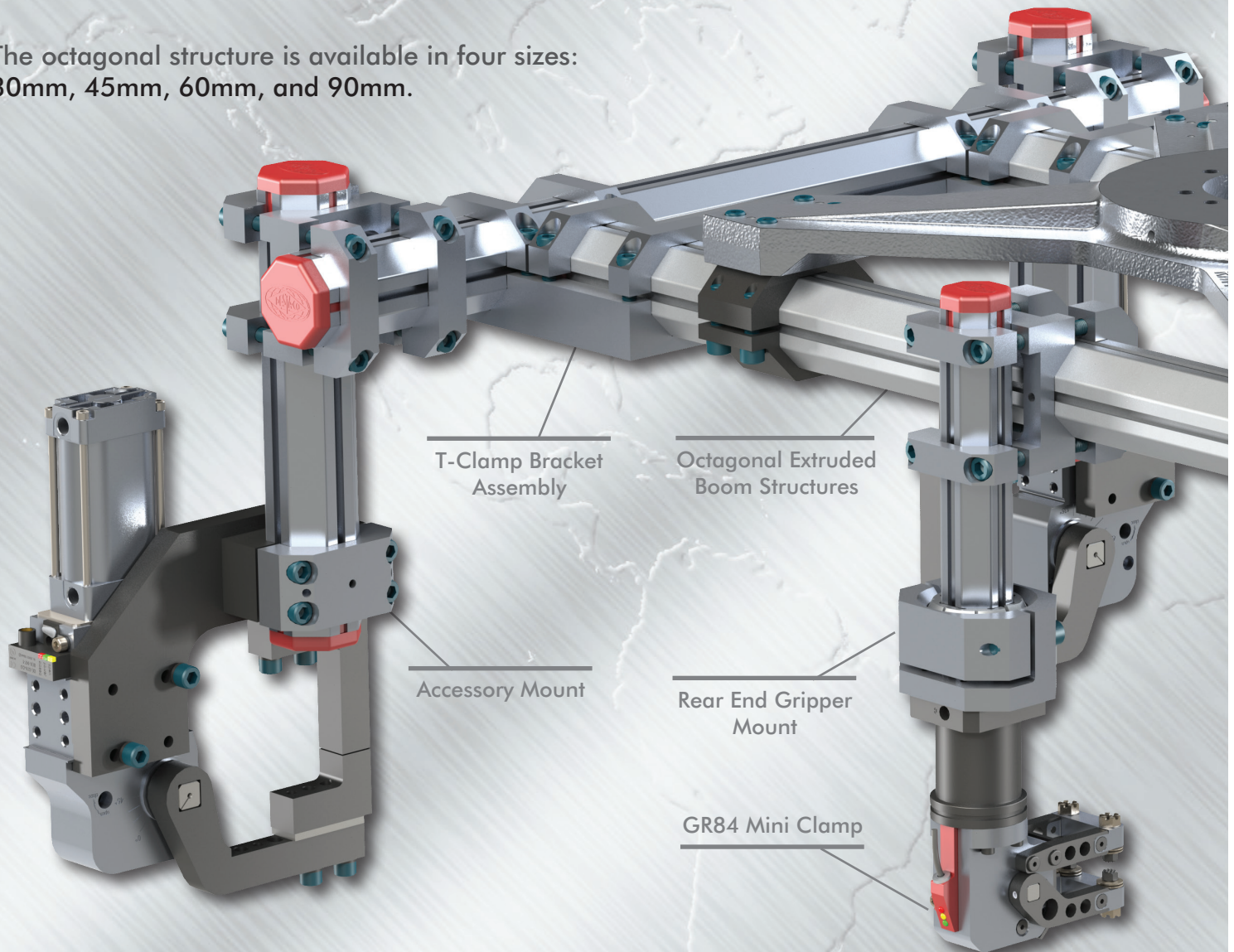


BodyBuilder™ Octagonal End Effector System



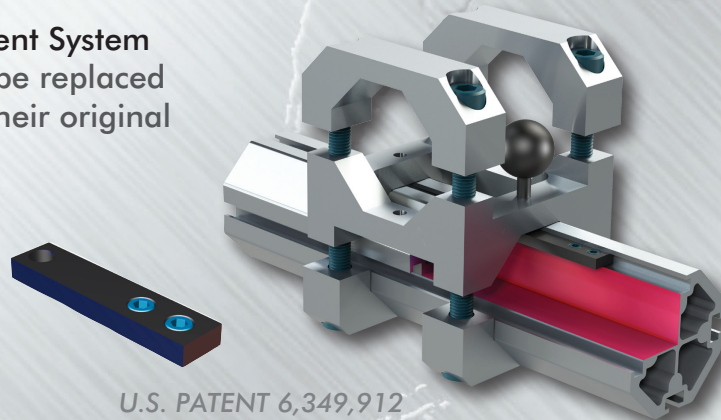
BodyBuilder™ is designed to maximize productivity, both before and after installation. The flexibility of the system allows modifications to the end effector in minutes, greatly reducing start up time to launch.

The octagonal structure is available in four sizes: 30mm, 45mm, 60mm, and 90mm.



The patented BodyBuilder™ Alignment System allows the modular components to be replaced individually and easily returned to their original positions.

Alignment nut(s) are included with every Bodybuilder™ modular component, utilizing the patented alignment system.



U.S. PATENT 6,349,912





BodyBuilder™ Octagonal End Effector System

Most commonly used in:

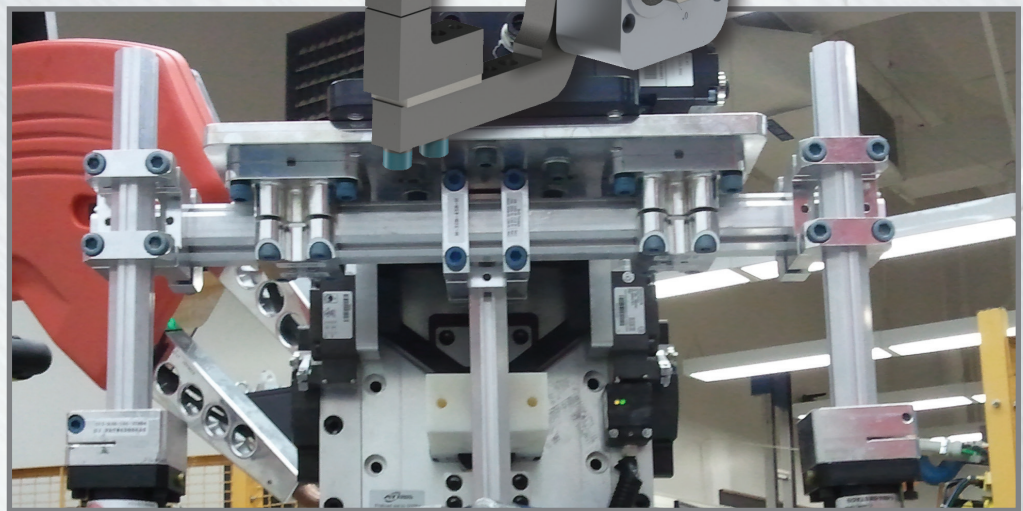
Applications	Markets
Robot Welding Pick and Place Material Handling Lower Nest	Industrial Automotive Transportation Appliance

Heavy Duty  
Mid Mount Assembly

M-Series Cross  
Bracket Assembly

Ready-to-assemble  
mounts and accessories  
eliminate drilling and  
welding at assembly.

82M Series Power  
Clamp



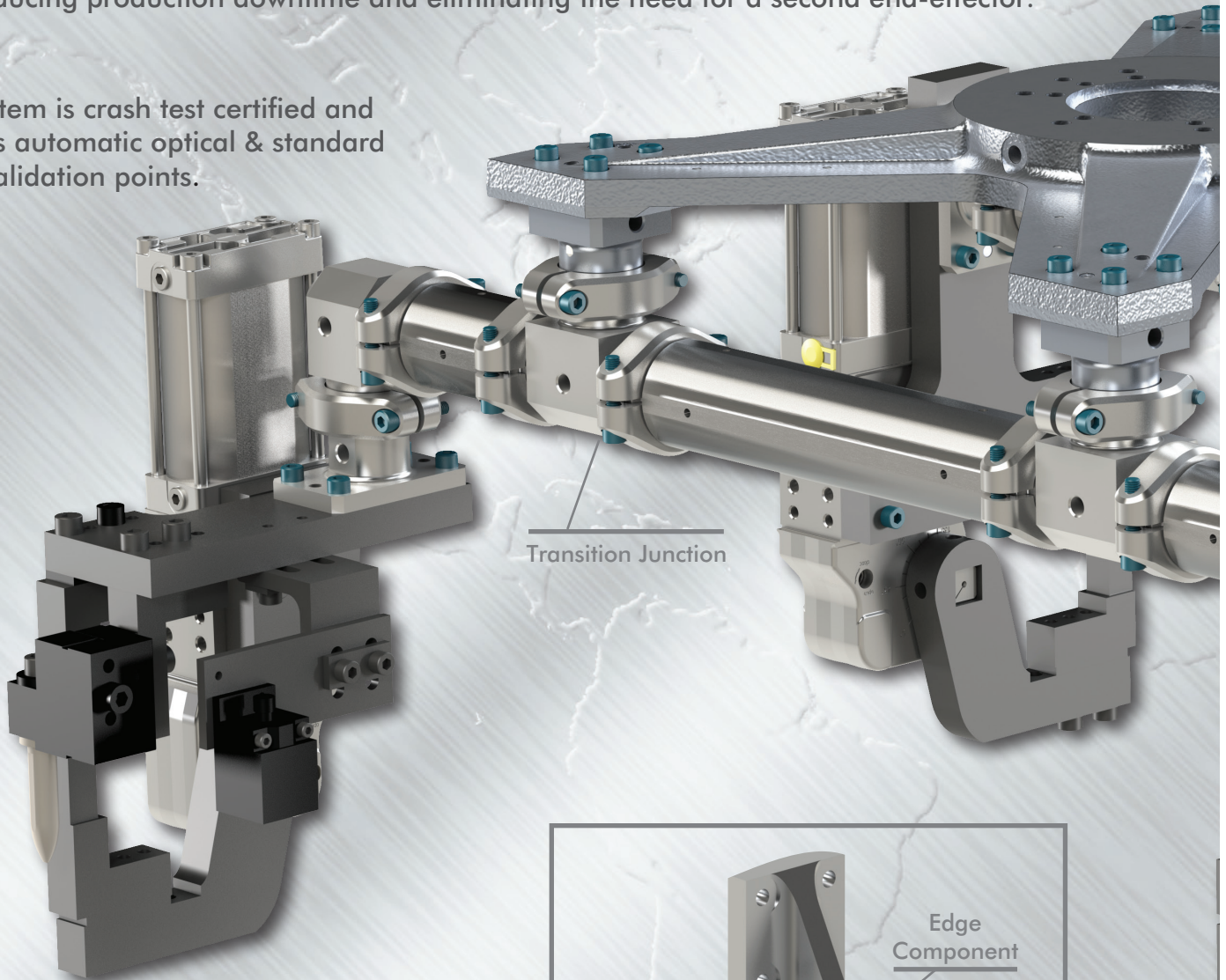




### Spidergrip Geometric End Effector System

SpiderGrip Geometric End Effector Tooling System offers a standard cost effective solution by making it easy for each component to be replaced individually in the robotic cell, dramatically reducing production downtime and eliminating the need for a second end-effector.

This system is crash test certified and features automatic optical & standard CMM validation points.



Transition Junction

Spidergrip modular components are easily configurable and offer high strength to weight ratios while maintaining dimensional accuracy after continuous minor collisions. The patented collar/key design and engineered breakaway base anchor provides quick crash recovery.



Edge Component

Collar Assembly

Key Assembly

Boom

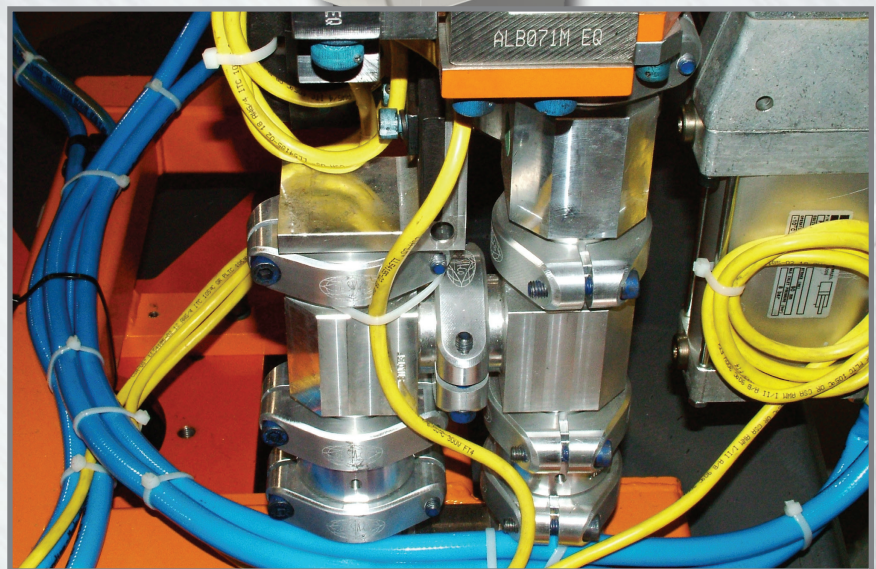
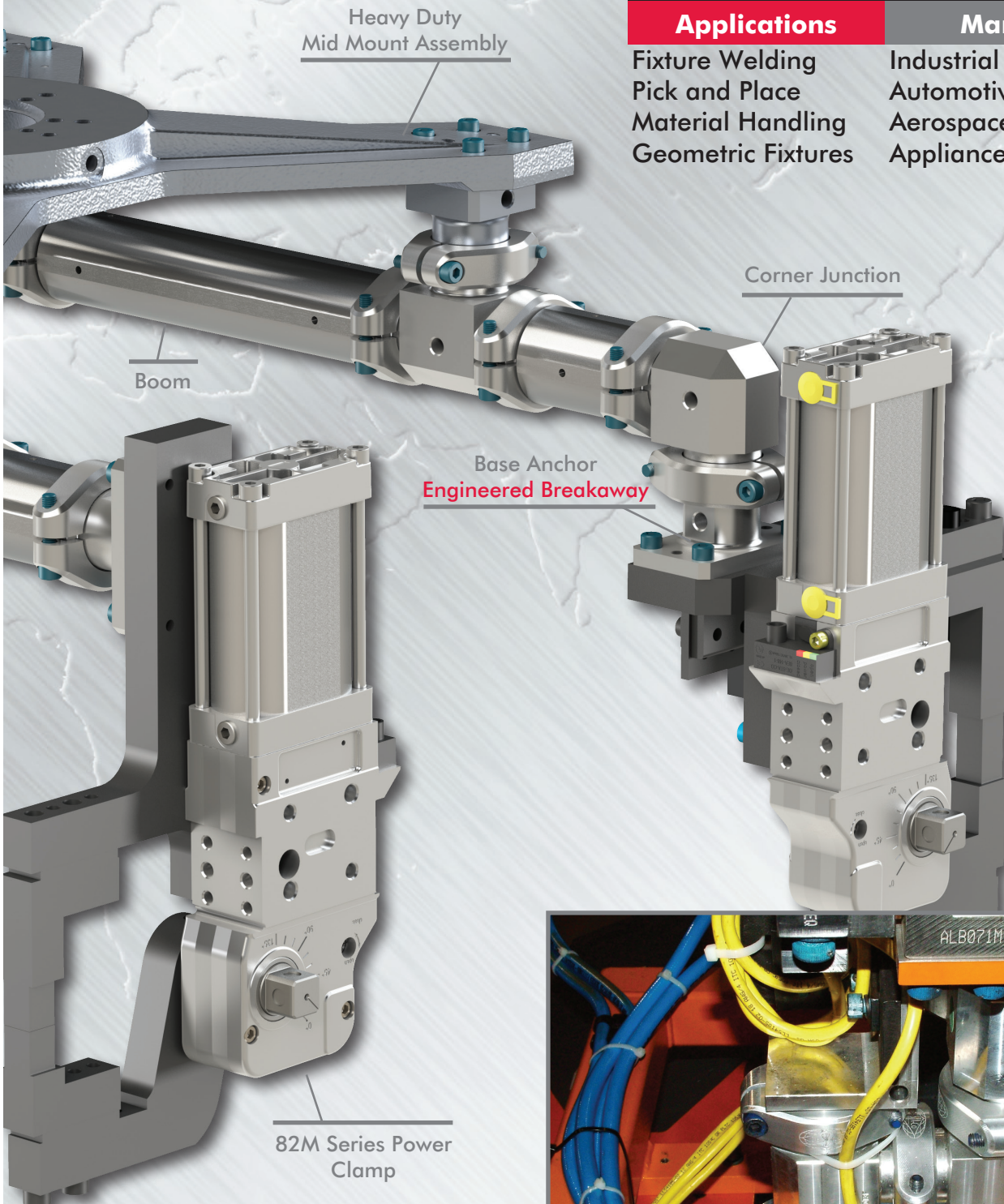




**Spidergrip** Geometric End Effector System

**Most commonly used in:**

Applications	Markets
Fixture Welding	Industrial
Pick and Place	Automotive
Material Handling	Aerospace
Geometric Fixtures	Appliance







### Vacuum Solutions

DE-STA-CO vacuum cups can be ordered in different types, sizes, materials and durometers to be used in a broad array of applications, ranging from sheet metal handling to plastics to glass.



DE-STA-CO also provides vacuum cups for extreme temperatures and hot-forming applications



**EcoCup™** is the world's first electric vacuum cup, creating vacuum without air. The EcoCup™ is ideal for pick-and-place applications of flat, rigid, non-porous parts, including plastic, glass, and other consumer goods with smooth, flat surfaces.



**ARV®** The original, patented Auto-Release Venturi offers users the fastest vacuum and blow-off in the industry with single line operation, integrated blow-off and standard silencer.

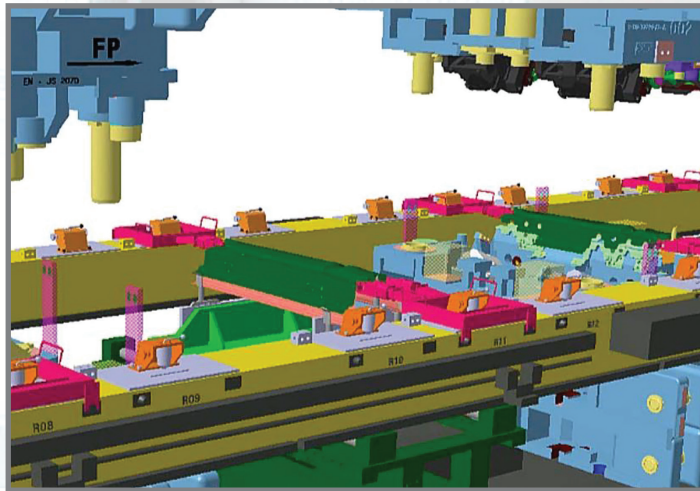
Destacker Double Blank Detectors (**DBD**) allows compliance to blanks within  $\pm 15^\circ$  without needing to adjust the robot, automation or tooling.







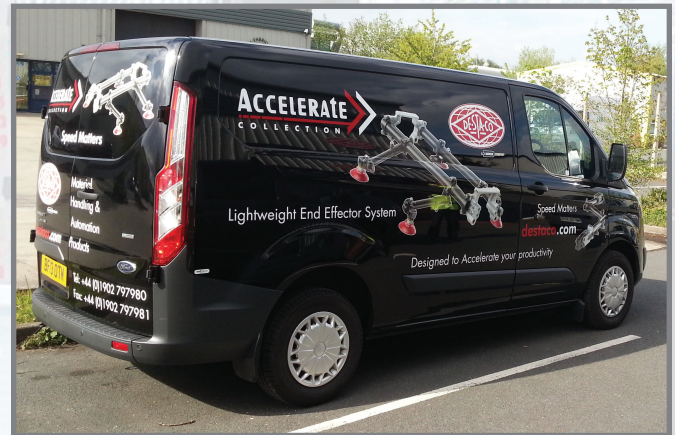
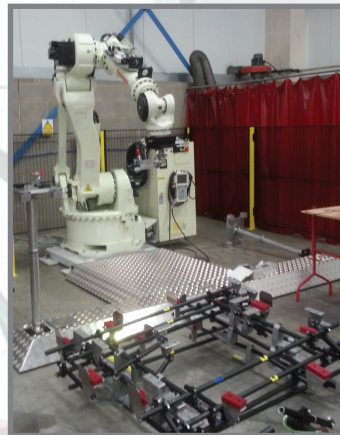
Concept-to-Commission Solutions and Support



Digital Press Shop and Virtual Assembly

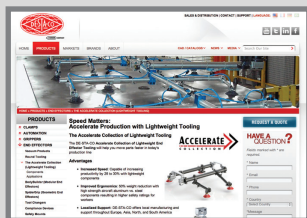
- 3D model design and collision checking of die, press, automation, and tooling
- Digital simulation using Delmia
- Precise build capability using robot technology<sup>①</sup>
- Tool qualification using metrology<sup>①</sup>
- Installation using own physical simulation and install teams

① Where Available



Training and Installation Assistance

- Installation and start-up assistance globally
- Coordinated with project management



Global Web Resource & 3D CAD Configuration

- Comprehensive product website with 3D CAD download and configurator



Customer and Technical Support

- Highly trained customer service and technical support staff will help you develop and implement the best possible solution for your application.





A DOVER COMPANY

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