

# Fastriv<sup>®</sup>

## Self-piercing Rivet System

The Fastriv<sup>®</sup> self-piercing rivet system is engineered to pierce and fasten in one operation, simplifying assembly and reducing costs while providing a strong, reliable joint. They are an excellent fastening solution where welding is impossible or undesirable, such as joining dissimilar materials or pre-coated sheets.



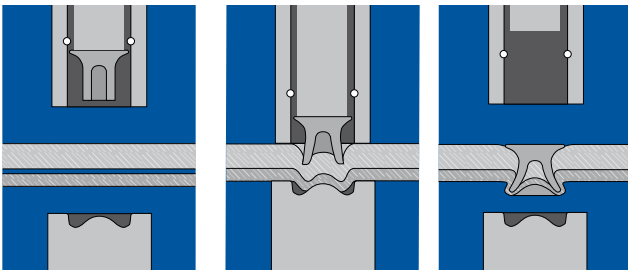
### Features

- Pierce and fasten in one operation, eliminating need for insertion holes and alignment
- Unlike welding, Fastriv<sup>®</sup> fasteners can join dissimilar materials and cleanly join pre-coated materials
- Self-sealing; rivet radially expands into material, without breaking through substrate
- Provides consistent, high joint strength, comparable to spot welds and other mechanical fastening methods
- Process load monitoring can be incorporated into tooling system to track and notify operator of variances in joint

### Benefits

- Reduces component costs
- Eases automation requirements
- Maximizes manufacturing flexibility
- Eliminates environmental hazards of spot welding operations, such as fumes and sparks
- Eliminates air/water path through fastening point, resulting in a leak-proof joint
- May reduce number of fastening points
- Increases product reliability
- Increases consistency and quality on the assembly line

### Placement of Fastriv<sup>®</sup> Self-piercing Rivets



Fastriv<sup>®</sup> self-piercing rivets are fed to the riveting module, then the tool clamps the sheets together.

The rivet pierces the top sheet and radially expands into the bottom sheet.

High joint strength is achieved by the interlock between the rivet and application materials.

### Range

Materials	Steel, stainless steel
Standard Sizes	3.2 mm, 3.9 mm, 4.8 mm
Head Styles	Countersunk, oval or tinman

Please note that optimal performance is dependent on material thickness and hardness. Testing is required to determine proper rivet selection and die configurations for specific applications. Please contact an Avdel application engineer for assistance.

### Assembly Tools

A wide variety of tooling, from hand-operated tools to fully-automated systems, is available to place Fastriv<sup>®</sup> fasteners. Each can be customized to meet the specific requirements of your assembly line and decrease your installed costs.

Please contact your Avdel representative for assistance in selecting the optimal tool for your assembly.



Portariv<sup>®</sup> system can be robotically mounted or hand operated.



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05.2008

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