



# TITANIUM HOT FORMING

## Shaping Durable, High-Quality Components

Re:Build Cutting Dynamics is an award-winning provider of precision components for mission-critical applications in the aerospace, defense, and high-performance industrial markets. Our titanium hot forming capability is a cornerstone of our offerings, allowing us to produce tight-tolerance metallic structures with exceptional precision and quality. This process is crucial for shaping titanium, a material valued for its strength-to-weight ratio and resistance to extreme temperatures, making it ideal for aerospace-grade components where reliability is paramount.





## Hot Forming Benefits

Our hot forming process for titanium offers numerous benefits, including:

- Enhances precision by eliminating springback
- Facilitates the formation of complex shapes with tighter radii
- Minimizes the risk of cracking, ensuring product integrity
- Accommodates growing demand for titanium aerospace parts

## Capabilities

Our state-of-the-art hot forming press features:

- 30" x 48" heated platens with nine heating zones for temperature uniformity
- Automatically insulated door systems for efficient heat containment
- Engineering to Beckwood Press' Infinite Life classification, guaranteeing durability
- Maximum part size: 46" x 28" x 12" (subject to Engineering review)

## Key Differentiators

- Expertise in aerospace applications: Two-thirds of the world's titanium alloy is used exclusively in aircraft, and we apply our capability to support advanced aviation applications.
- Guaranteed quality: Our press is built to last, designed using Finite Element Analysis (FEA) software to handle the most taxing industrial applications.
- Versatility: We can work with both titanium and stainless steel for a wide range of aerospace components.

### APPLICATIONS:

- Jet engines
- Firewalls
- Missiles
- Engine & Exhaust Components
- Landing Gear
- Key Superstructure Joints

### CERTIFICATIONS:

AS9100  
ISO 9001  
ITAR Compliant  
NIST 800-171 Compliant

### LOCATIONS:

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### CONTACT:

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