

## About Momentous Mold & Machine

**Momentous** delivers **high-precision tooling and assemblies** for **mission-critical** programs. We support space-launch booster systems, composite rotor blade molds, VTOL inlet structures, and other **high-consequence** applications requiring **extreme dimensional accuracy** and process rigor.

Founded over **70 years ago**, the company carries forward a legacy of craftsmanship and trust built across three generations of the Reuther family. In 2025, a team of **Northeast Ohio owner-operators** acquired the business and began transforming it into Momentous—investing into capital assets and digital infrastructure to shape the next era of high-precision tooling.

Momentous brings **>2,000 collective years of toolmaking and precision manufacturing experience** across design & process engineering, CAD/CAM, CNC programming, machining, and inspection—within a **60,000 sq. ft. controlled facility**.

## Major Machining Centers

### Large-format CNC Milling and Turning

- (7) 5-axis CNC Milling Centers up to 84" x 134"
  - 75 HP spindle for titanium machining
  - Trunnion & portal style machines
- (10) Vertical CNC milling centers up to 95" x 160"
- (5) CNC turning centers up to 98" swing
- (5) Horizontal CNC milling centers up to 60" x 120"

### Specialty Machining

- Deep-hole drilling up to  $\text{Ø}1.25" \times 72"$  (60" x 72" envelope)
- (2) Surface grinders up to 32" x 64"

### Support Equipment

- (2) Spotting Presses up to 61" x 71"
- Manual Vertical Boring Mill – 110" Swing
- (3) Bridgeport mills
- (3) Manual lathes

### Inspection & Dimensional Verification

- FARO Vantage Laser Tracker
- FARO Quantum Arm
- Wenzel CMM

**Newest 5-axis CNC mill,**  
handling 45" x 53" x 24"  
workpiece



**Trunnion-style 5-axis CNC mill,** with a 39" x 43" x 29" envelope on 35" table, up to 12k RPM and 75 HP, optimized for **titanium machining** (as well as P20 steel)



**Largest CNC vertical turning lathe** – 78" table, 98" swing, 63" vertical travel, 26k lb. capacity – **optimized for large aerospace mandrels and launch tooling**



**AS9100 & ISO 9001 Certified • JCP Certified • ITAR Registered • CUI Capable**

## Partnering with Momentous Mold & Machine

We engage early to de-risk programs through **in-house design engineering and manufacturability review**. Structured machining and **in-process inspection ensure controlled execution**. We support programs across their lifecycle—through **first article validation, engineering changes, and ongoing tooling repair and refurbishment**.

## Representative large-format, high-consequence programs

### Aircraft Interior Compression Mold



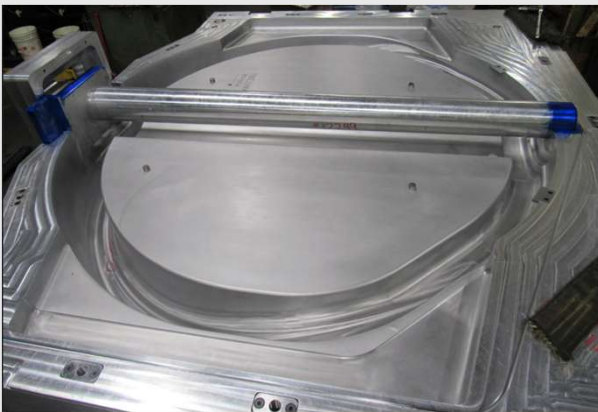
60" x 45" precision 5-axis machining

### Solid Rocket Booster Engine Mandrel



60' long, 6' diameter, 250+ piece assembly

### Hydroelectric Infrastructure Valve Tooling



90" x 78" x 14" precision 5-axis machining

### Downhole Blow-Out Prevention Mold



64" diameter, precision turning and machining

