



FACTS

Alcoa Howmet, located in Wichita Falls, Texas, is the leading producer of equiax superalloy blades and vanes for commercial and military aerospace engines and industrial gas turbines. The plant uses the latest technical and manufacturing processes to provide the highest quality products with competitive lead times and pricing.

The 66-acre site has two facilities:
1. A main manufacturing site with 170,000 sq ft (15,300 sq m), and
2. A lean manufacturing facility occupying 49,000 sq ft (4,410 sq m).

Alcoa Power and Propulsion, a major business unit of Alcoa Inc. (NYSE: AA), is a global leader in airfoil and structural investment castings, forged structural parts, and forged aircraft wheels. Serving the aerospace, defense, energy and industrial markets, its products are primarily used in jet engines and industrial gas turbines. Additional value-added products and services include hot isostatic pressing, specialty coatings, research and development, supply chain management, specialty tools, molds, and machinery. With 29 production facilities, Alcoa Power and Propulsion employs more than 11,000 people worldwide.

PRODUCTS

- LP and HP solid and cored blades
- LP and HP solid and cored vanes
- Multi-vane segments

Certifications

- ISO9001:2000
- AS9100
- Nadcap

Alloys Poured

- IN100, IN713, IN738, IN792, IN929, B1900

- René 77, René 80, René 125, René 41
- Mar-M 247, Mar-M 509, Mar-M 002
- FS-414, NI55, X-40, C1023, WI52
- And many turbine manufacturers' proprietary alloys

Inspection

- Full metrology department, including Capture 3D
- Full metallographic laboratory
- In-house alloy and material testing capability

CAPABILITIES

Manufacturing Processes

- Lost wax/investment casting
- Superalloy (equiax grain)
 - Airmelt, maximum pour weight: 60 lb (27 kg)
 - Vacuum, maximum pour weight: 60 lb (27 kg)

Plant Capability

- Casting envelope of 36 in (0.9 m) in height
- 35-ton and 50-ton wax-injection equipment

- Robotic ceramic shell process
- Nine production coordinate measurement machines
- Lean manufacturing methods
- Unigraphics® CAD/CAM capability
- Blade, micromasure 4/PCDMIS

Inspection capability

- Heat treat, FPI, X-ray and superfinish
- Toolroom facilities

CONTACT INFORMATION:

Alcoa Howmet

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CUSTOMERS

Wichita Falls Casting is an approved source for many customers, including:

- Avio, Inc.
- Blades Technology
- General Electric Aircraft Engines
- Honeywell
- Howmet Corporate Machining
- Hydril
- IHI (Ishikawajima-Harima Heavy Industries Co. Ltd.)
- ITP (Industria de Turbo Propulsores, S.A.)
- MHI (Mitsubishi Heavy Industries, Ltd.)
- MTU Aeroengines
- Rolls-Royce Indianapolis
- Rolls-Royce U.K.
- Samsung
- Snecma
- Solar® Turbines: A Caterpillar Company
- Techspace Aero, S.A.
- BF Goodrich Turbomachinery Products
- United Technologies:
 - Pratt & Whitney, United States
 - Pratt & Whitney, Canada
 - Pratt & Whitney Power Systems