



FACTS

Alcoa Forged and Cast Products, located in Georgetown, Ontario, Canada, is a major provider of aluminum- and copper-based castings for the aerospace industry.

Specializing in casting extremely complex parts, the facility typically produces castings up to 14 x 14 x 14 inches (35.56 cm) and can increase that size up to 16 inches (40.64 cm) for special configurations. The facility occupies 36,000 sq ft (3,240 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

Alloys Poured

- Aluminum: A356, A357, C355, F357
- Copper base: Silicon bronze, silicon brass, aluminum bronze

Growth Areas

- Aerospace: commercial and military
- Medical equipment
- Commercial components

CAPABILITIES

Castings

- High-technology aluminum and copper-based
- Casting size: 12 -14 in (30.48-35.56 cm) cube, and up to 16 in (40.64 cm) for select configurations

Machining

- Castings complete to print

Rapid Prototyping

- Cast from patterns
- Developmental and experimental projects

Pattern Making

- Produced using soluble cores, ceramic cores, and special assembly techniques
- Shell and solid molds
- Robotics and automatic mix and pour equipment

Other On-Site Operations

- Metallurgical laboratory
- X-ray, penetrant inspection, tensile testing and heat treating

Tooling

- In-house tool room

Engineering and Inspection

- Full layout department
- CMM
- ISO9001:2000/AS9100 Rev B
- Nadcap – NDT, welding, heat treat

Manufacturing Process

- Lost wax/investment casting
- Solid mold

CONTACT INFORMATION:

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CUSTOMERS

Over 300 customers, including but not limited to:

- Bell Helicopter
- Bombardier
- Cessna
- Curtiss Wright
- Honeywell
- Raytheon
- United Technologies:
Pratt & Whitney, Canada
- Woodward