



FACTS

Alcoa Howmet, located in Morristown, Tennessee, is a top supplier of complex ceramic cores, which form the internal cooling passages of investment-cast turbine airfoils used in the jet aircraft engines and industrial gas turbine industries.

The operation specializes in the high-volume production of complex ceramic cores used in the casting of reactive and nonreactive single crystal, directionally solidified and equiax alloys. The cores range in size from less than 1 in (2.54 cm) to more than 30 in (76.2 cm) in length.

Since 1986 the operation has grown to 127,000 sq ft (11,430 sq m).

PRODUCTS

Silica and alumina compounds and cores used to produce hollow investment castings for applications in commercial and military airframes and engines, and in industrial gas turbine engines (IGT).

- Blades
- Vanes
- Structural parts for frames and turbines
- Shrouds for blade outer air seals

Growth Areas

- Aerospace
- Industrial gas turbine
- Small structural castings, including blade outer air seals

Inspection

- Coordinate measurement machine
- Electronic gauging
- Laser scanning

CAPABILITIES

- Transfer molded silica cores for single-crystal, polycrystal and equiax casting of airfoil and IGT components
- Injection-molded alumina cores for single-crystal, polycrystal and equiax castings of airfoil components made in reactive alloys

CONTACT INFORMATION:

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CUSTOMERS

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