



Dover Casting is a world-class supplier of complex, investment-cast turbine airfoils and other components for the aircraft engine and industrial gas turbine industries.

Considered an industry leader in the use of work cells and other advanced manufacturing techniques, Dover Casting specializes in the casting of single-crystal, directionally solidified, equiax and fine-grain components using modern equipment and state-of-the-art processes. Dover Casting also offers "non-traditional castings," which are components normally fabricated from many parts, now available as single castings with all internal passages and holes cast in. These castings are used primarily in the combustor section of a gas turbine.

The facility has been located in Dover, New Jersey, since 1949 where it occupies 240,000 square feet of manufacturing space. The plant employs more than 500 people, who have an average 15 years-experience with the company.

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Products

Single-Crystal/Directional Solidification

Commercial and military aircraft, rocket and industrial gas turbine

- Blades and vanes
- Multi-vane segments
- Duct segments, shrouds and combustor panels
- Special processes: orientation control, Intricast™ thin wall, clean casting, reactive alloy

Size range:

SC up to 16 inches (0.4 meters)

DS up to 18 inches (0.46 meters)

Equiax

Commercial and military aircraft, rocket and industrial gas turbine

- Blades, vanes and multi-vane segments
 - Integral wheels
 - Bi-cast
 - Shrouds, duct segments, and cover plates
 - Special processes: MX® ultra-fine grain
- Size range: up to 21 inches (0.5 meters)

Non-traditional

Aircraft and industrial gas turbine

- Fuel injectors
- Complex swirlers
- Compressor vane segments

Alloys Poured

- Nickel- cobalt- and iron-based alloys
- Stainless steels
- Vacuum- air-melt
- Many turbine manufacturers' proprietary alloys

Capabilities

Manufacturing Processes

- Lost wax/investment (shell) casting
- Heat treatment
- Welding/brazing
- Etch
- Vacuum- and air-melt casting

Engineering and Inspection

- Concurrent engineering
- Rapid prototyping
- Process modeling
- FPI and X-ray
- Full layout department
- Laser scanning/CMM

Customers

Dover Casting is an approved source for many customers, including:

- Alstom Power
- Ansaldo Energia
- General Electric Aircraft Engines
- General Electric Power Generation
- Honeywell
- MTU-Aeroengines
- Rolls-Royce
- Siemens
- Siemens Westinghouse Power Corporation
- Solar® Turbines: A Caterpillar Company
- BF Goodrich Turbomachinery Products
- United Technologies:
Pratt & Whitney, United States
- Woodward Governor Industrial Controls Group