

3 IMPORTANT PUBLICATIONS

What is Investment Casting?

Members \$4.50 ea. Nonmembers \$9 ea.

An introduction to investment casting, including history & step-by-step diagrams. Includes cost factors, dimensions, tolerances and surface finish.

Metal Quality Standards

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Voluntary standard of metal quality for commercial grade castings of more common alloys where purchasers do not provide detailed specifications. Updated with new alloys and metric conversions.

Designs & Uses of Investment Castings

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Newly updated with case studies and metric notations. Pictures and drawings to show what investment castings can do.



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CASTING CONTEST

Aerospace Award

Component from Miller Castings, Inc. is Classic Investment Casting Example

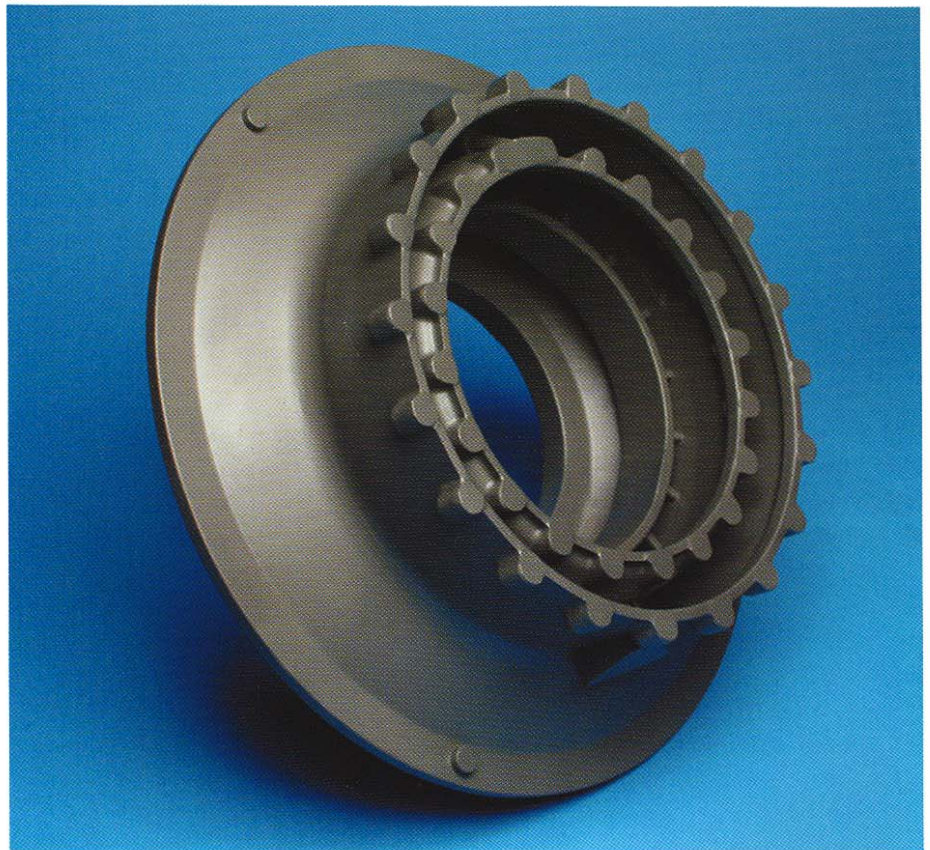
There are certain classic examples of investment castings. Such is the case with the winner of the Investment Casting Institute's Aerospace Award for 2004.

Manufactured by **Miller Castings, Inc.**, Whittier, CA, the exhaust housing for an aircraft engine was designed as an investment casting due to its very small core passages and many transitions from thin-wall thickness to thick walls to thin again.

The design of the component went through several iterations using rapid prototyping technology (SLA).

Cast in Inconel alloy 718, the component measures approximately 15" in diameter by 5 1/2" high. It is used in an experimental developmental engine for the German aerospace company, MTU.

The part is currently undergoing engine tests and is expected to go into production in the near future. It represents what investment casting can do with small core passages and varied wall thicknesses.



With its small core passages and varied wall thicknesses, this exhaust housing for an aircraft engine is a classic example of what the investment casting process can do.