

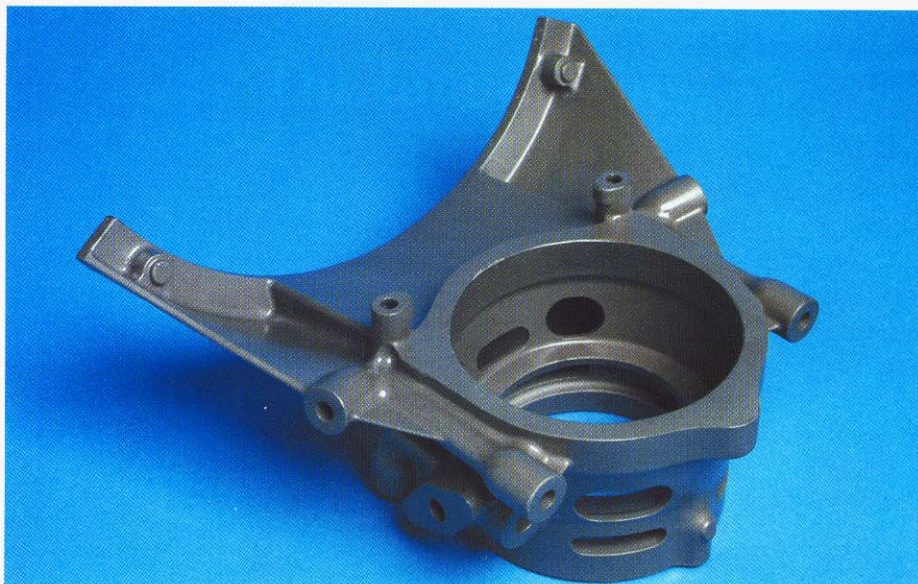
Aerospace Engine Award Goes to Miller Castings

An aerospace inlet gearbox casing of 17-4 PH stainless steel, cast by Miller Castings Inc. of Whittier, CA, is the winner of the Aerospace Aircraft Engine Award in the Investment Casting Institutes 2005 Casting Contest.

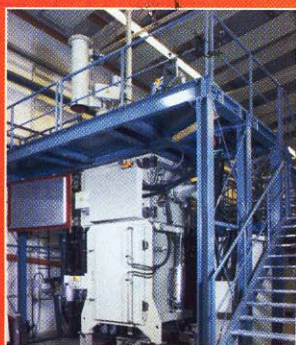
The component, measuring approximately 11" wide x 9" high was originally made with all the ducts and small holes to be cast solid and machined to size by the customer. Concurrent engineering, however, enabled the caster to modify the ducts while still in the design stage. The ducts—three vertical, two horizontal and one long diagonal—ranging in diameter from 1.0 mm to 1.9 mm, were cast to net shape. All ducts are interconnected and produced using a proprietary shell process. Secondary operations in-

clude heat treat and HIP. Benefits include elimination of several machining opera-

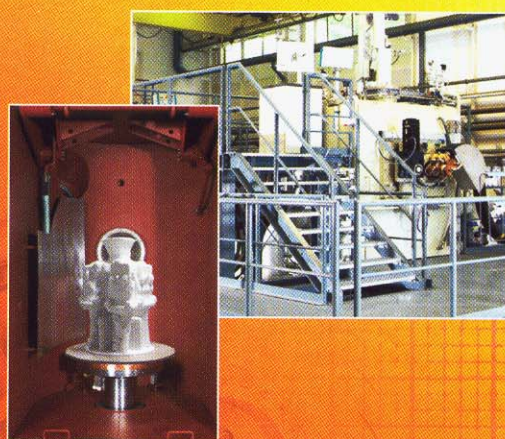
tions, thus reducing time and costs significantly.



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