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# Living with Castings

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**Cast Component:** Turret for a gimble housing.

**Material:** A356 aluminum.

**Process:** Rubber plaster molding.

**Casting Supplier:** A.L. Johnson Co., Camarillo, Calif.

- As part of a forward-looking infrared device, the weight of this 10-lb. (4.5-kg) turret for a gimble housing was significantly reduced because rubber plaster molding virtually eliminated the need for draft.
- The part was originally a hog out, then a sand casting before being converted to rubber plaster molding. Switching to the molding process saved a large amount of time and money by reducing secondary operations, such as machining.
- The casting features some thick-to-thin wall transitions that required special cooling considerations in the mold.

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