

ARISTO CAST

INVESTMENT CASTING

2017 AFS CASTING OF THE YEAR WINNER Millions in Savings with Magnesium Casting!

AEROSPACE SEATBACK FRAME

- Material: Magnesium
- Process: Investment Casting
- Weight: 1.7 lb
- Dimensions: 17.4 x 17 x 0.8 inches
- Application: Lightweight seatback frame supporting passenger seats in aircraft.



CHALLENGE

Aircraft seat frames are usually constructed from a single billet. An engineering firm contacted Aristo Cast with the desire to manufacture it differently—to make a better part that would also reduce costs. Using a design optimization model, they worked to reduce as much material as possible without affecting the strength requirements.

RESULTS

A seat frame with a lattice-like structure with voids where material was not required was developed. Machining such a design however, would be too costly and time consuming. This is where the engineering team from Aristo Cast completed the design detail and cast the part in Magnesium.

While Aristo Cast is humbled to be recognized for this achievement, the real winners of course, are our customers. Designing and producing differently is what Aristo Cast is all about. We proudly have the 'can do' attitude in all of our projects.

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