

AMC

AMERICAN METALCASTING CONSORTIUM



AMC RECEIVES 2015 DMC ACHIEVEMENT AWARD

Background

Lehigh University is leading a DLA Casting R&D project being performed under a contract to SCRA Applied R&D, in conjunction with the American Metalcasting Consortium's Casting Solutions for Readiness Program that will improve the strength of welds in high alloy steels. Fabrication of most DoD combat vehicles with this new alloy will require welding to itself and other armor steels.

SUCCESS STORY



Problem

Fusion welding is used extensively in the fabrication of military combat vehicles. The welding process can compromise the strength of the armor steels that are needed in these high performance vehicles.

Solution

Lehigh University led an effort that investigated new welding consumables and techniques for improving the strength of welds in armor steels resulting in lighter parts in vehicles.

Benefits

Projected cost savings over five years after implementation is \$8.9M.

"The information from this project will help us develop welding procedures to preserve the mechanical properties of the welds made in Eglin steel."

**Raymond Sciortino,
BAE Systems**



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