

Current and New Applications for Magnesium Alloys in High Performance Aircraft and Military Designs

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This presentation will cover new and potential applications for today's high performance Magnesium Alloys where key advantages of low density, elevated mechanical properties, and high strength to weight ratio are beneficial. Current designs in aerospace and military ground vehicle applications will also be highlighted with parts ranging in size from ounces to over 3,000 pounds. Sand casting examples will be shown with some components of such high complexity that they require over 140 sand cores to produce, thereby illustrating the formability ease of these Magnesium Alloys.