

Since 1948



Eck Industries, Inc.

Specialists in premium aluminum castings



www.eckindustries.com

Award Winner.

American Foundry Society 2011 Casting of the Year



ALLISON TRANSMISSION
HYBRID H40/50 EP SYSTEM
STATOR HOUSING

WEIGHT REDUCTION

Material:
Aluminum

Dimensions:
18 x 18 x 21 in.

Weight:
116 lbs.

COMPLEX DESIGN

Casting provides tight concentricity tolerances across multiple large core assemblies, multiple cast-in features, and zero-porosity and no-leak customer requirements

Features:

- 9 Cast-in Iron Inserts (Bearing Sleeve, Threads)
- 1 Cast-in Steel Tube (Oil Line)

CONVERTED FABRICATION

Housing holds the two-mode parallel stator assembly

CASTING PROCESS

Air set sand process with low pressure mold filling to fill thin walls and feed thick sections

PERFORMANCE STANDARDS

Stator housing meets or exceeds Allison Transmission's durability standards for hybrid transmission performance

Provides superior elevated temperature performance

Contact Eck Industries with your next casting challenge.

ITAR Registered
ISO 9001 Certified
AS9100 Compliant

Contact
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Excellence in casting.

For six decades, Eck Industries has been committed to providing the best aluminum castings in America. Over time and through innovation, Eck has developed some of the most technologically advanced techniques for complex casting. Today, Eck is providing leadership in alloy development, composite materials and nano-particle technology. Contact Eck with your next casting challenge. We'll be leading the way for the next 60 years.



Eck Casting Applications

MILITARY / DEFENSE

- M2 Bradley Final Drive Cases
- AAV7 Drive Cases
- Navy Gunport Shield
- Remote Gun Mounts
- Armor Support & Underbody Protection
- Hatches/Doors & Bumpers
- Steering & Suspension
- Housings & Carriers

COMMERCIAL

- Aircraft Cylinder Heads & Crankcases
- Fans & Impellers
- Hybrid Electric Housings
- Aluminum Composite Brake Rotors
- Vehicle Engine Blocks & Oil Pans
- Valve Bodies & Control Housings
- Frame Nodes & Brake Pedals
- Steering & Suspension

The possibilities are endless.
Contact Eck with your special application.



FIVE SOLID REASONS TO CAST WITH ECK

#1 Weight Reduction

Eck is a leading foundry for lightweight aluminum alloys

#2 Survivability

Castings from 200 Series alloys offer superior ballistic protection

#3 Cost Reduction

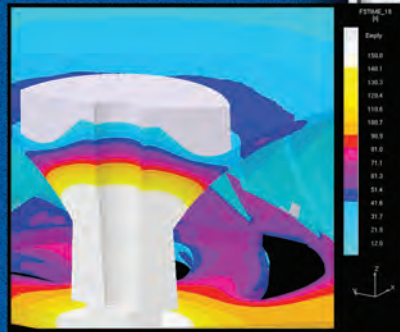
Convert fabrications to castings

#4 Versatility

Eck casts products for a wide variety of applications across ground vehicles, aerospace and energy

#5 Innovation

- Nano-reinforced 206 alloy
- Beryllium-free E357 alloy
- Metal matrix composites
- Alloys for heat extraction, high strength and ductility (Cast 7075, 6061, 6063)



▲ Eck Industries' design team uses the latest casting solidification software from MAGMA to design gating systems for complex castings.