

Steel Battery Enclosure

With Magna's broad expertise in engineering and various steel forming and joining capabilities, we offer the complete development and production of steel battery enclosure solutions. This includes all required safety and quality checks on a global scale.



Cleaner



Design



Electrification



Co-Development
Opportunity

Competitive advantage/differentiators

- Steel battery enclosures combine the structural advantage of higher-grade steel and the lower material cost compared to aluminum or fiber reinforced plastic.
- Large one-piece stampings offer improved leak tightness, are safety-critical, and reduce production costs.
- Optimized battery space utilization due to formability properties of steel

Applications

- Complex and modular designs
- Cost reduction initiatives
- Hybrid & EV platforms

SOP

Ideation

Discovery

Concept

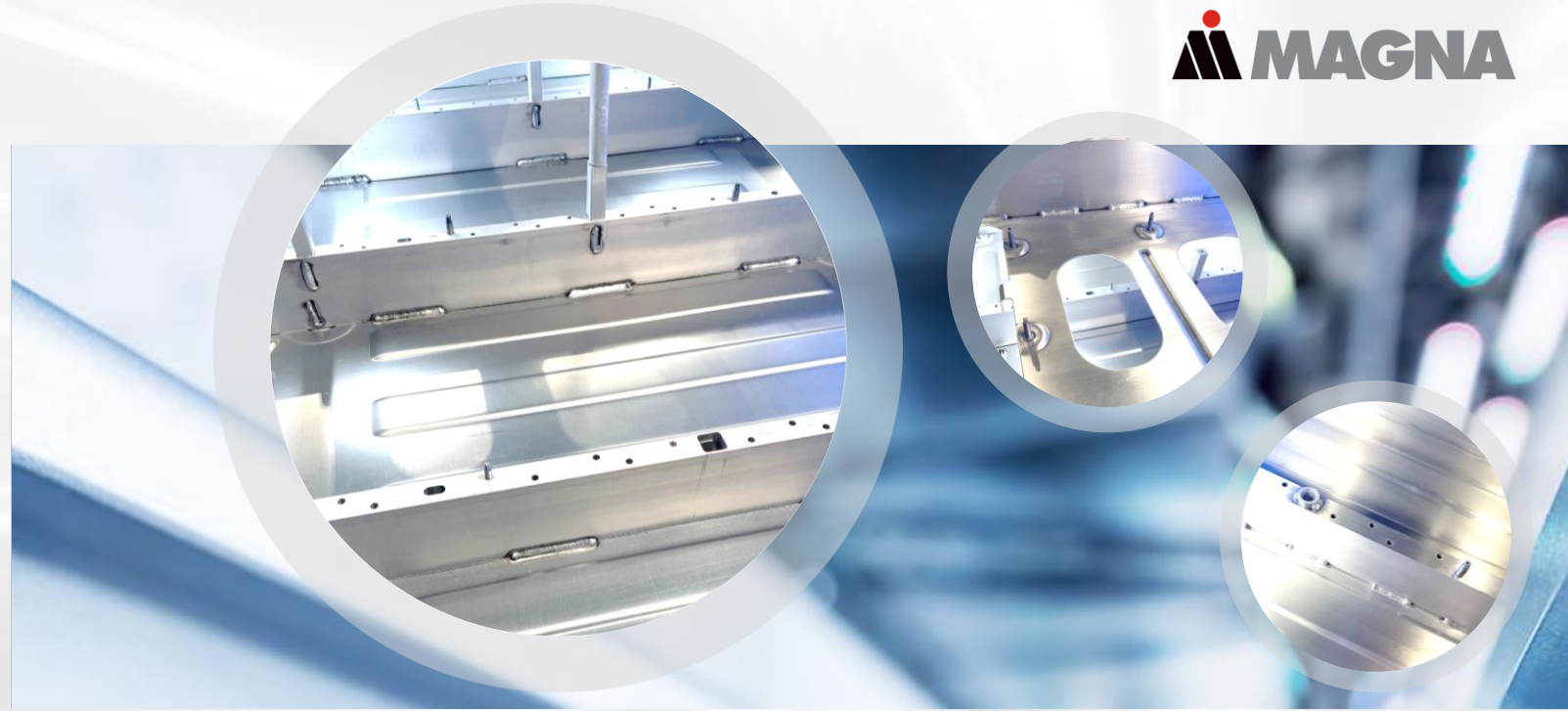
Development

Serial Preparation

In Production

Aluminum Battery Enclosure

With Magna's engineering and manufacturing capabilities for complex aluminum assemblies, we can support all customer needs regarding aluminum battery enclosures on a global scale. We offer solutions with the best possible quality from the first concept development to high volume mass production.



Cleaner



Design



Lighter



Co-Development
Opportunity



Electrification

Competitive advantage/differentiators

- 20% lighter than comparable steel designs
- Aluminum designs offer light weighting and high-scalability to produce different enclosure sizes for different vehicles on one production line.
- Designed as an assembly of extrusions, castings, and stampings.

Applications

- Lightweight designs
- Complex and modular designs
- Hybrid & EV platforms

SOP

Ideation

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Concept

Development

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In Production