



American
Battery
Solutions

OUR ENERGY IS ELECTRIC.

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2022 Member Update

Dr John Warner
Chief Customer Officer

ABS is Uniquely Positioned to Enable Electrification Across Multiple Markets

Market Leading Battery Systems Designer and Integrated Battery Pack Provider to Commercial Electric Vehicles, Energy Storage Systems and Industrial End Markets



Experienced Team with Decades of Battery Design Expertise



Broad Customer Base with Secured Contracts



Established Track Record of Manufacturing Excellence



Secured Cell Supply with Multiple Cell Producers



Rapid Growth Across High Value Markets

Established Manufacturing Capacity with Footprint Ready to Scale



60,000
Battery pack
systems delivered
through existing facilities

200⁽¹⁾
Team Members
across all locations

300k sq. ft.
of innovation and
manufacturing facilities

Ex-Bosch Facility
Acquired ready-to-scale
facility

120⁽¹⁾
Battery engineers
across all locations

Zero PPM
quality performance
for FCA, BMW,
Daimler and GM



Manufacturing Facility – Springboro, OH

170k sq. ft.
Expandable to 213k

2 GWh
2021 installed capacity

8 GWh
Current building
capacity

Key Competencies



Experience with
Multiple Chemistries



Battery Pack Design



Thermal
Management System

Innovation Centers

Lake Orion, MI



Boston, MA



Battery Management
System



Testing and
Validation



Battery
Manufacturing

120k sq. ft.
Engineering, test
and validation
facility

Pilot line
Flexible semi-
automatic prototype
build facility

~16k sq. ft.
ESS design center in MA

ABS Battery Pack Design is Cell Agnostic and Future Proofed

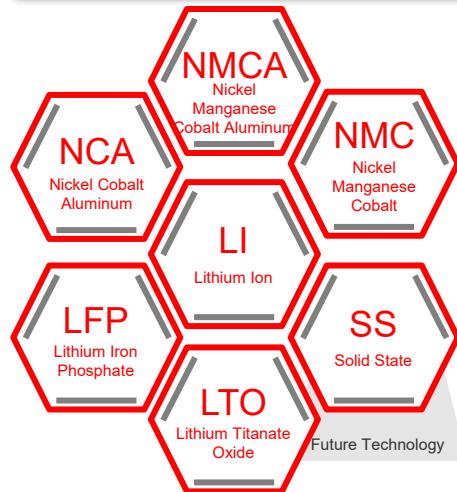
ABS will win in this market regardless of any shifts in cell chemistry and technology.



Cell Chemistry and Geometry has and will Continue to Advance

ABS Integrates Various Chemistries into Battery Packs

ABS Delivers a Product Customized to Customer Specs



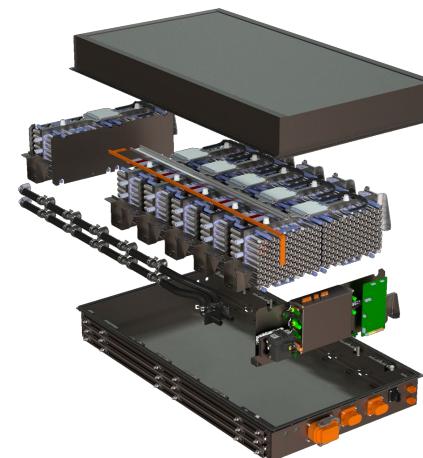
Customers Require Flexibility to Integrate Various Cell Types Into Their Battery Systems

Cylindrical

Prismatic

Pouch

- ABS battery pack solutions are battery cell agnostic
- ABS supports cell chemistry of today and can adapt to evolving chemistry and market dynamics including solid state technology
- Automotive grade system integration know-how is critical regardless of cell chemistries



ABS manufactures several different types of battery packs that are fit for purpose

Modular Designs with Integrated Safety



Multiple Sizes and Widths



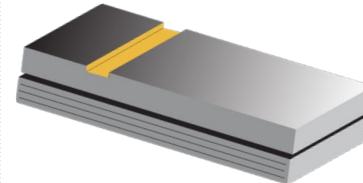
- Standard, Off-the-Shelf Products
- Scalable building blocks
- Offer versatility across various uses
- Easy integration without complex battery pack development

Can Work with Pouches, Cylinders or Prizm Cells



- Cell versatility broadens range of battery pack application
- Flexibility allows for cost, temperature or size efficiency, depending on the cell type

Custom Packs



Specific Customer-funded Projects for Development and Manufacturing

Versatile Design Elements Can Enable Applications Across Markets

KWh

2

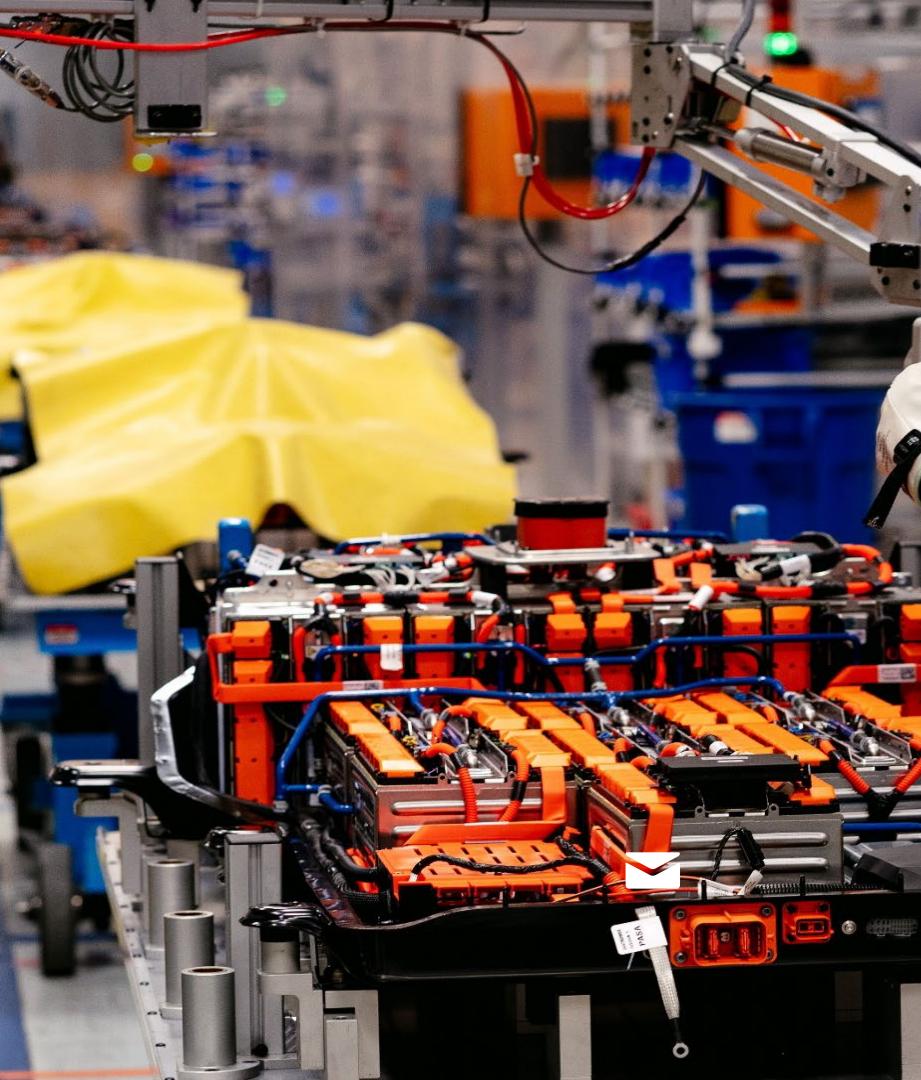
1,700

Battery Pack



Application





YOUR BATTERY PARTNER

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