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Increase productivity while driving down costs

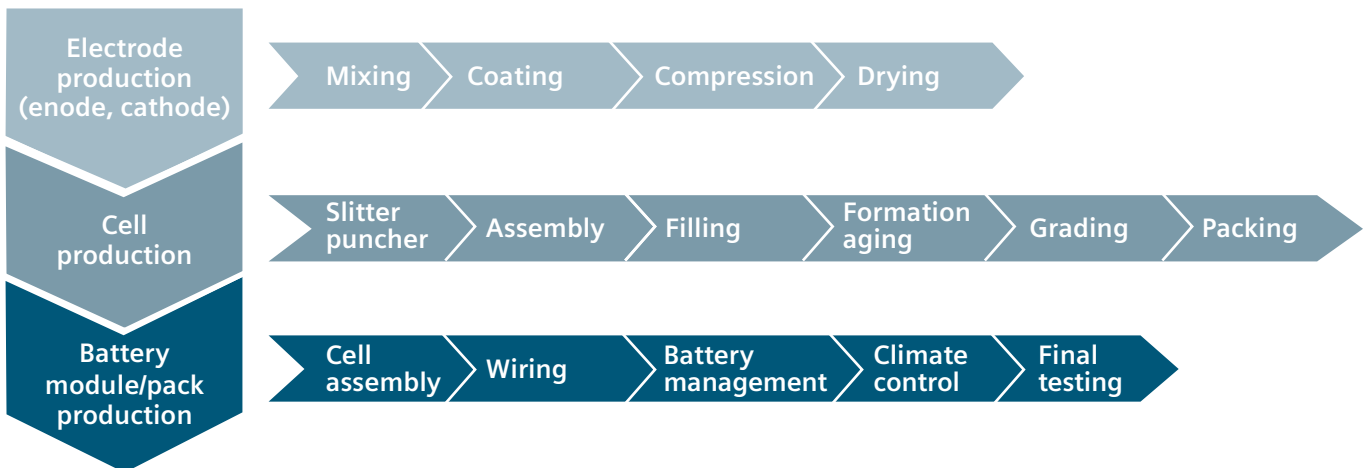
Efficient OEM Solutions for the battery manufacturing process

Now more than ever, battery manufacturers are looking for competitive global manufacturing solutions while staying flexible to the evolving chemistries being developed. Machine builders face similar, but more challenging issues.

Delivering consistent, standardized solutions to a constantly changing globe while complying to multiple standards is no simple task. Neither is minimizing design costs and providing global spare parts and technical support.

The companies who have the ability to scale up while minimizing costs and keeping quality in check will help pave the way within this emerging industry.

Siemens has the products, global support, and expertise necessary to keep both your equipment manufacturing costs and global service and support costs down. Through the Siemens OEM Partner program, we've provided proven and consistent results that make our machine builders more competitive and profitable.



Siemens offers comprehensive PLC and IPC based automation solutions across the entire value chain of the battery manufacturing industry.

Siemens OEM and IPC products, systems and services offers these benefits for battery manufacturing processes

Efficient	Consistent	Transparent	Safe
<p>Prebuilt solutions help shorten your time to market and reduce engineering costs</p> <ul style="list-style-type: none"> • Open source engineering toolkits provide fast, customized solutions for engineering coaters, mixers, assembly, punching machines, and more • Uncompromising quality and performance due to significant technology investments 	<p>Siemens hardware and software are pre-designed to be scalable and modular, so your equipment can be offered without compromising your design</p> <ul style="list-style-type: none"> • Global libraries allow OEMs to reuse code from one machine and reproduce it into another, minimizing engineering time and ensuring a consistent machine • Comprehensive portfolio scales with your equipment; upgrade your hardware without compromising your existing code or having to use a different engineering program 	<p>Battery manufacturers are looking for strong process transparency. OEMs that help enable this provide additional value to these end customers</p> <ul style="list-style-type: none"> • Track and traceability integrated into both PLC and IPC platforms for open communication • Integrated diagnostics provide value-add to end customer through use of open PROFINET communications platform • Seamless integration to SCADA and MES/ERP systems • Remote monitoring and secured web-server access via PC, smart phone, or tablet 	<p>Whether you plan to ship your equipment internationally or not, it's imperative you keep your intellectual property (IP) secure</p> <ul style="list-style-type: none"> • Embedded IP protection due to layers of defense in hardware, software, and network devices • Fully compliant with global standards and regulations (IEC, NEMA, OSHA, etc.) to reduce both OEM and end user liability • Fully integrated safety controls to minimize points of failure and maximize uptime

Siemens offers for OEMs

<p>OEM tools and content</p> <ul style="list-style-type: none"> • Pre-Engineered, open-source function blocks for machine builders, free of charge via "Converting Toolbox" • Extended warranty support • OEM tools and investments to help train engineers on Siemens platform
<p>Global coordination</p> <ul style="list-style-type: none"> • Worldwide spare parts support through local distributors • Global, 24/7 technical support • Free of charge hotline
<p>Co-marketing development</p> <ul style="list-style-type: none"> • Co-marketing at battery shows Siemens normally invests in • Help "connect the dots" through Siemens extensive connections within the battery industry

IPC-related product benefits

<p>Guaranteed life cycle</p> <ul style="list-style-type: none"> • Product availability for up to 5 years with an additional 5 years of global spare parts and repair services. Complete image compatibility • Consistent form factor to enable standardized OEM design • In house R&D development and strategic supplier partnerships enable long-term product availability
<p>Highest quality standard</p> <ul style="list-style-type: none"> • Shock and vibration proof due to rugged industrial design • Built-in diagnostic features • Customized portfolio to meet end-users specifications
<p>Track and trace ability</p> <ul style="list-style-type: none"> • Process and analyze large, complex data streams typical of battery manufacturers • Scalable storage capability for battery production data archiving • Highest availability due to embedded design

What makes Siemens automation solution unique? As an OEM and integrated service provider, we take care of your equipment throughout its entire lifecycle. Whether you need an immediate response to a breakdown, planned maintenance, or leading-edge upgrades to improve the performance of your equipment over the long term – be sure to take advantage of our global engineering expertise coupled to our local service infrastructure. Siemens offers you a total solution supported by our OEM expertise.

To find out more about how Siemens deliver OEM and IPC solutions for the battery manufacturing industry, contact your Siemens representative today.

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