Your Partner in Battery Manufacturing
Information about the Company

- Siemens Corporation is a U.S. subsidiary of Siemens AG, a global powerhouse focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies,
- 379,000 employees in 190 countries,
- Siemens reported worldwide revenue of $94.0 billion in fiscal 2018.

Strength in USA

- Siemens in the USA reported revenue of $23.7 billion, including $5.0 billion in exports, and employs approximately 50,000 people throughout all 50 states and Puerto Rico.
- 5 production and research facilities / 10 local offices
- Local battery experts and implementation support

»Contacts:

- Melanie Spare – Melanie.Spare@Siemens.com
  US Business Development & Marketing – Battery
- Phil Aponte – Phil.Aponte@Siemens.com
  US Business Development – Electronic Assembly & Battery
  Unrestricted

»The Battery Show 2019 - Booth # 2405
- www.siemens.com/battery
Digital Enterprise for battery industry

This integration provides essential a contraction of time-to-production and risk reduction.
The Totally Integrated Automation portfolio
Perfectly tailored solutions for battery manufacturing in record time

**Battery Converting Toolbox**

- Standardized automation packages with tested know-how for SIMOTION, SINAMICS and SIMATIC Systems
  - Winding
  - Coating and Laminating
  - Cutting
  - Punching
  - Spooling

**Advantages of Converting Toolbox**

- Time saving for commissioning and service
- Transparent and tested software
- Global APC support
- Open source for simple adaptations
- Solutions for SIMOTION, SINAMICS and SIMATIC
- The applications are free

**Electrode coating**

**Automation solution with Converting Toolbox**

**Machine**

- Coating system
- Drive
- Reversing system
- Interchangeable modules
Fast and Efficient Programming

Battery Handling Toolbox
- Standard and modular Software library
- Handling with SIMOTION fulfills the OPL requirements

Standard
- The so-called standard-kinematics are already integrated on the system
- The pre-configured blocks allows a fast and efficient engineering

Most common kinematics are available in the standard system-blocks

Kinematic for assembling of prismatic cell by stacking

Automation solution
SIMATIC S7 (F)
- Machine automation
- SIMOTION
- Standard handling application

Machine
- Portal
- Function block diagram
Siemens is passing through the digital transformation itself and adapting its processes to the new reality.