

BITRODE

Member of the Schuler Group



BITRODE'S JOURNEY

COMPANY SNAPSHOT

Founded by:
ACME



Started a product
line for lithium-ion
testing.

Moved to
current location
in St Louis!



1957

1964

1995

1998

2005

2008

2009

2022

2023

Bitrode
became a
spin-off.

Moved to
a facility in
Fenton.

SOVEMA GROUP
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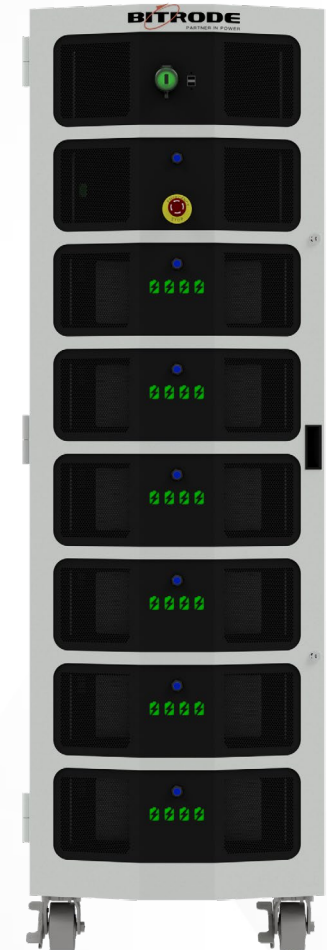


BITRODE'S JOURNEY

BITRODE DIGITAL CYCLER™ (BTDC™)



28 channels of 300 A continuous current	Data acquisition rate: 1 ms	Rise time: < 1 ms
Voltage accuracy: ≤ 0.015% FS	Regenerative	Current accuracy: 0.02% FS
Max current per module: 1200 A	Voltage range: -6 to +6 Volts	Current ranges: 300/30 A
Current measurement resolution: 5 mA (300 A) 1 mA (30 A)	Voltage measurement resolution: 100 μV	Circuit-circuit isolation



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FTF – High Power

FTF-HP:

Volt Range:

- 30 to 1000V (0 Volt optional)

Current Range:

- up to 1000A (2000A in parallel)
- 4000A w/ external PCC

Power Range:

- 300kW to 1MW (4.0MW in parallel)

Channels per Cabinet: up to 2

Step Response: 15ms

Slew Rate: <8ms (10 – 90%)

Data Acquisition Rate: 1ms

Power Factor: 98%

Efficiency: >92%

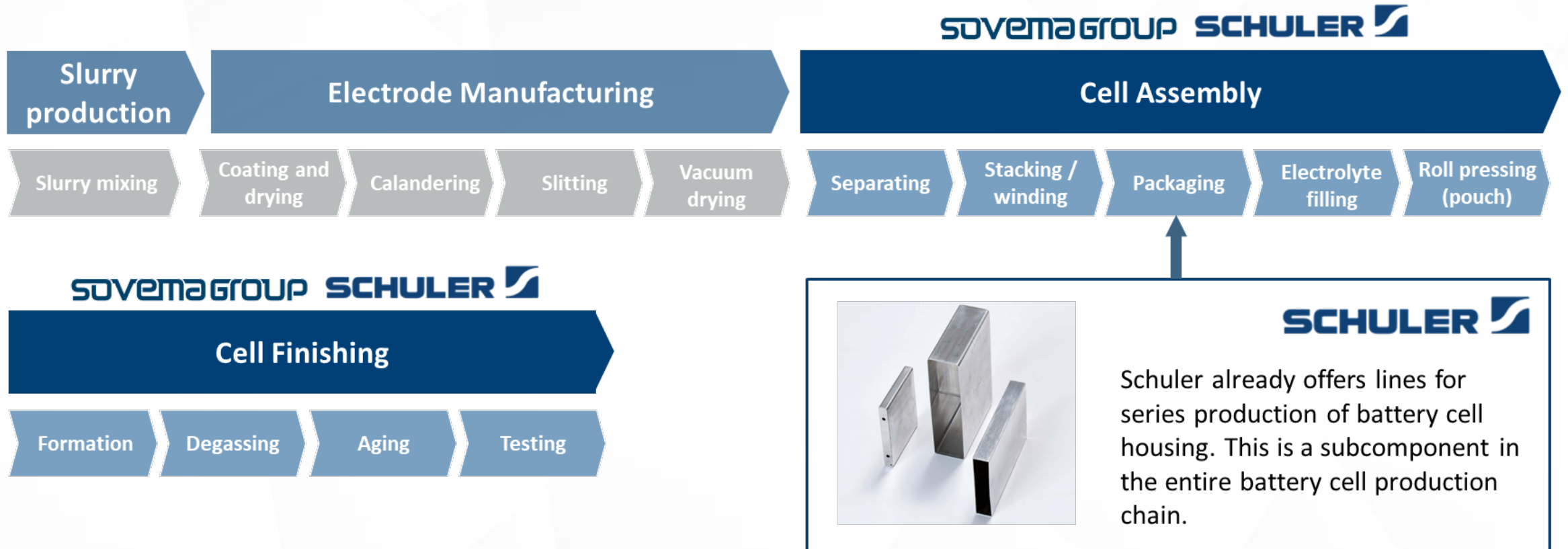
Current Accuracy:

- .05% of Full Scale
- Parallel function for increased current and power (max. 4 circuits)
- Regenerative Design
- Battery Simulation (optional)



SCHULER'S JOURNEY

Production of Li-Ion Battery Cells



FORMING THE FUTURE

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