



Highly Efficient Modular Machine Design

for AGM and SLI Battery Production Lines

Scalable. Configurable. Future-ready.

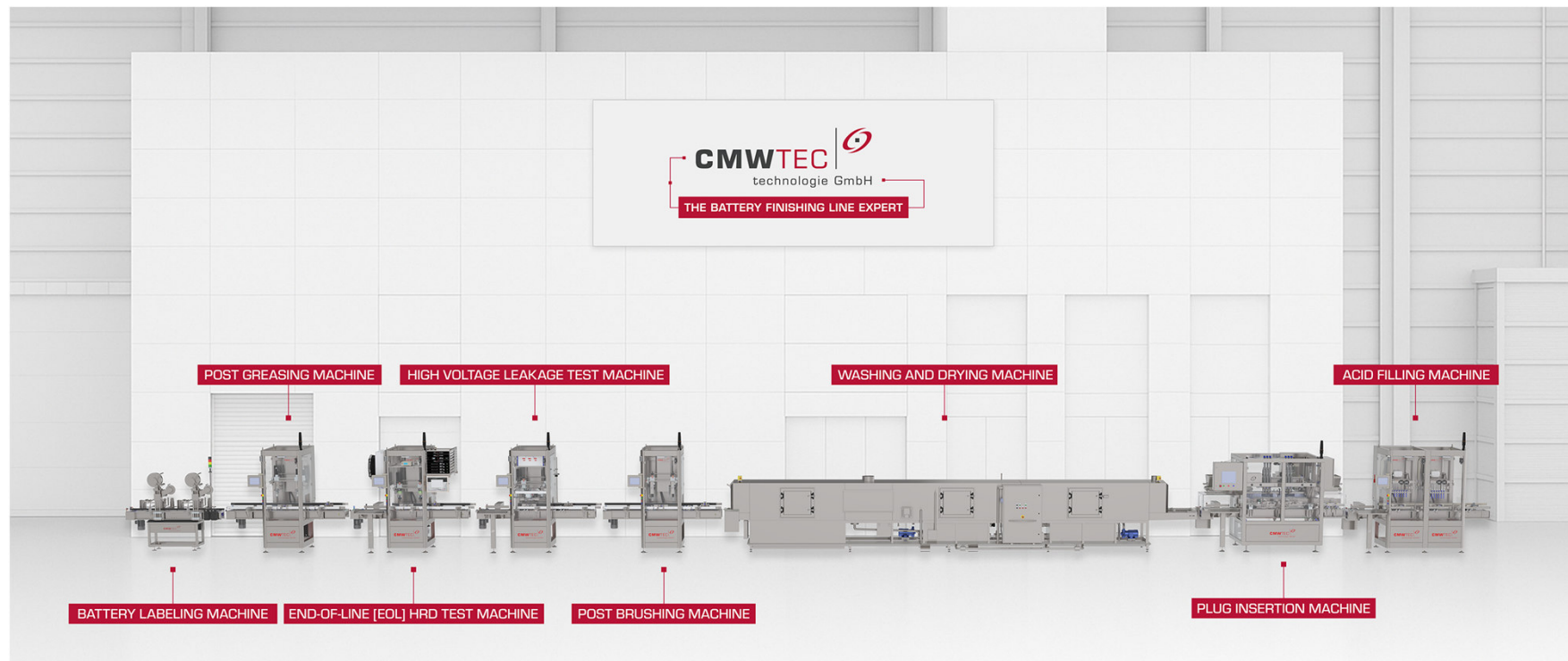
presented by

Michael Wipperfurth

Vice President Sales

THE BATTERY FINISHING LINE EXPERT

Technology
Made in Germany



We are a leading manufacturer of battery finishing line equipment for OE battery producers

HIGHLY EFFICIENT MODULAR MACHINE DESIGN

THE BATTERY FINISHING LINE EXPERT

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CMWTEC is more than a manufacturer of machines



Our focus is on working with the customer to develop a concept that will deliver the best machine design using state-of-the-art technology.

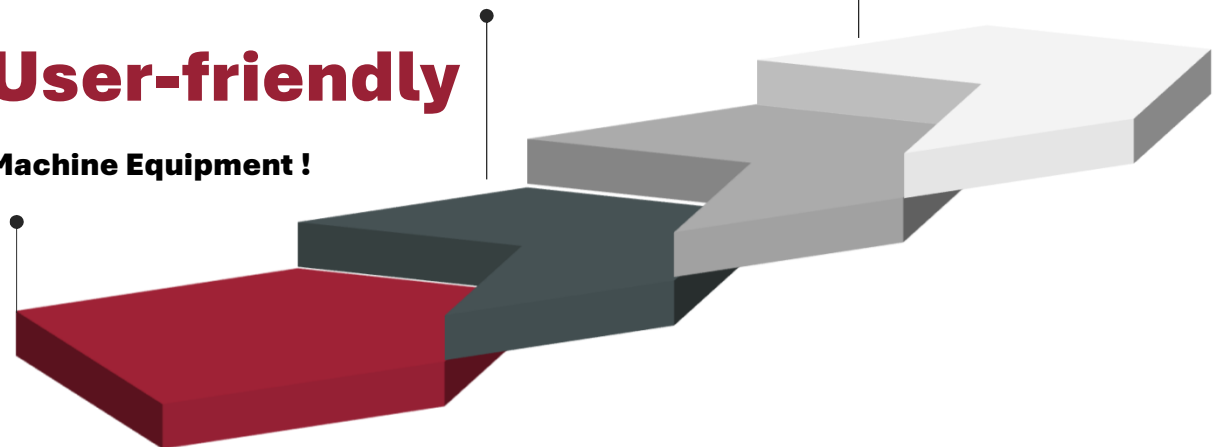
User-friendly

Machine Equipment !

Highly

Automated processes !

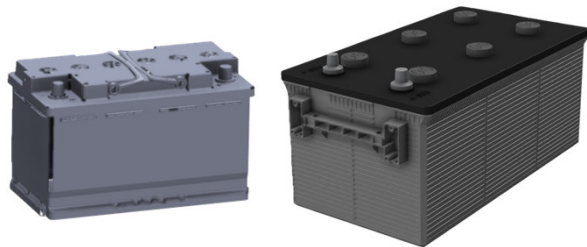
Efficiency
In Production !



APPLICATION RANGE

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One concept for a broad battery portfolio



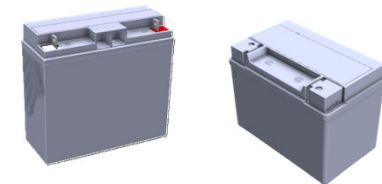
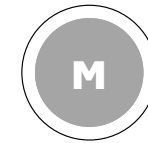
car and truck batteries

6V-12V DIN / JIS / BCI Models
Capacity output up to 12 batt/min



industrial batteries

4V-12V UPS / Telecom Models
Capacity output up to 6 batt/min

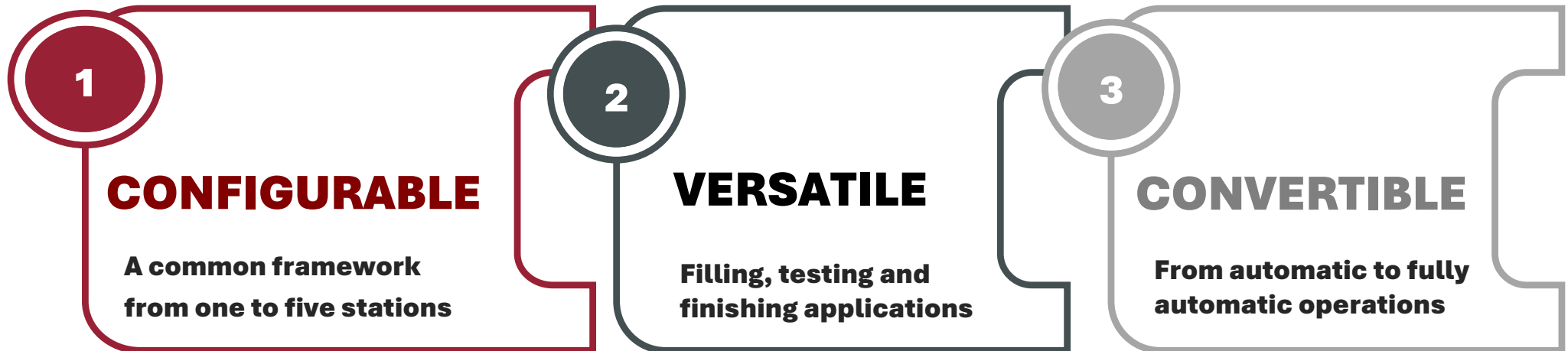


motorcycle batteries

12V 2-wheeler Models and similar
Capacity output up to 10 batt/min

EXECUTIVE MESSAGE

The platform idea in one view



One modular system creates a consistent machine architecture across the production line.

1

CONFIGURABLE FRAMEWORK

Scale capacity without changing the concept



Single station



Double station



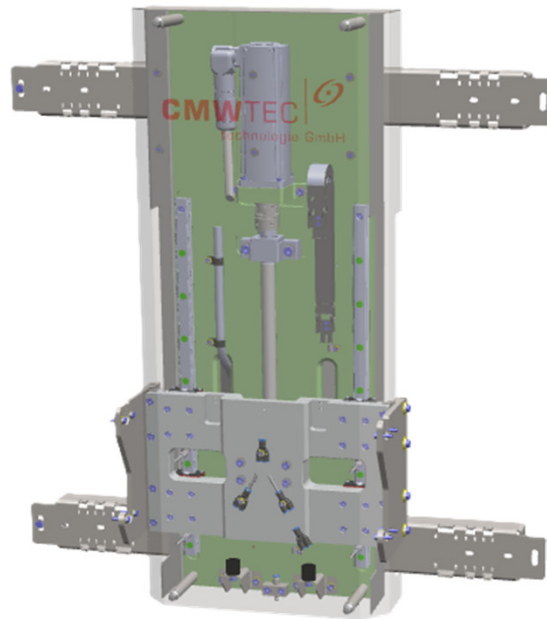
Up to five stations

Space-saving growth path

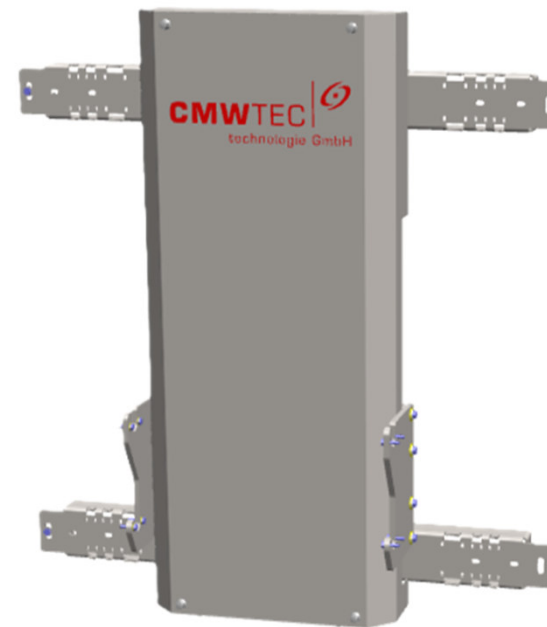
2

MODULAR ARCHITECTURE

Servo driven lifting unit – as a basic standard



Servo integrated



covered with Stainless steel 316 L

2

MODULAR ARCHITECTURE

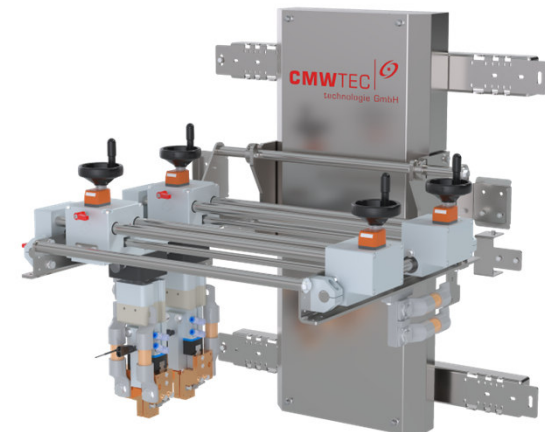
Three building blocks, many machine variants



Servo driven lifting unit



Adjustment unit



Individual function unit

HIGHLY EFFICIENT MODULAR MACHINE DESIGN

2

COMBINEABLE FUNCTION UNITS

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Configure the process to the customer requirement



Post brushing



Post greasing



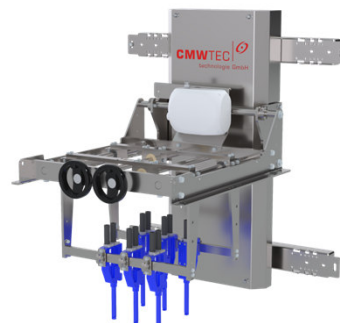
High-rate discharge test



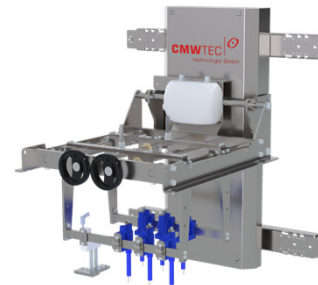
High-voltage leakage test



Marking



Acid filling/ levelling



Acid Level checking

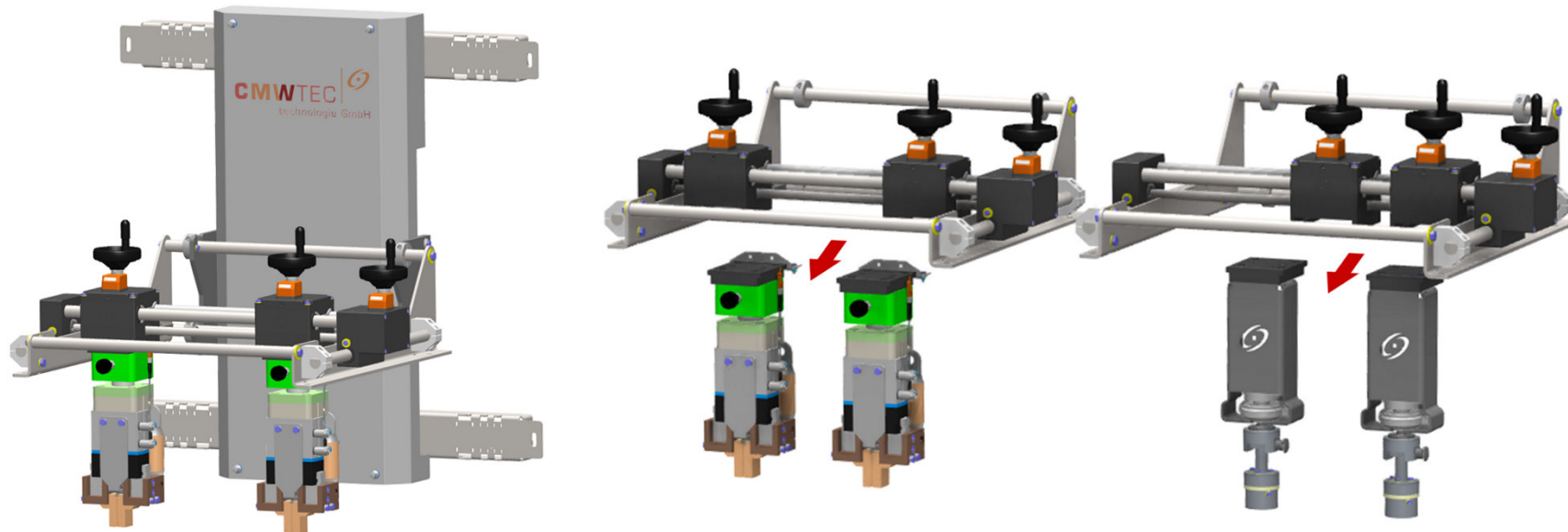
Combinable function units
can be mounted on the
servo lifting unit



2

LIFECYCLE FLEXIBILITY

Designed for serviceability and faster maintenance

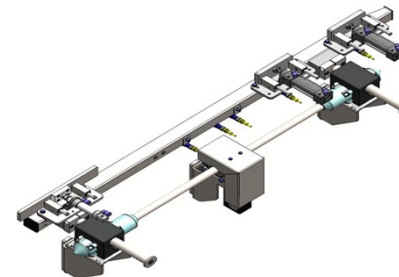
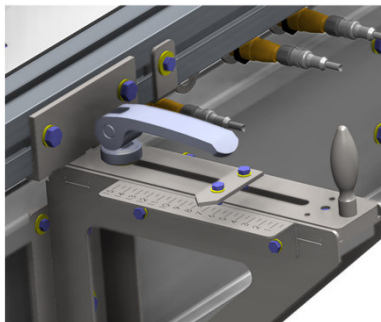
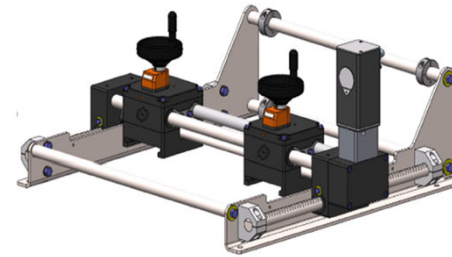


Makes the repair work easier during the maintenance

3

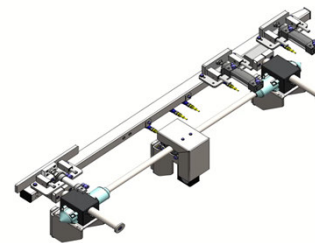
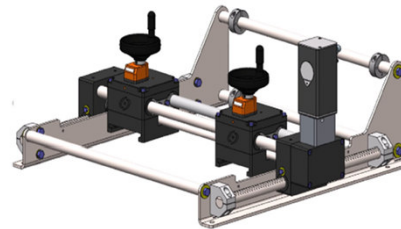
LIFECYCLE FLEXIBILITY

Convertible to fully automation



READY FOR INDUSTRY 4.0

Automation without Limits



- Scanning battery codes before entering the machine
- allows self-adjustment of the machine
- which reduces manpower on the production line.

INSTALLED BASE

**The number of units sold
is growing +**

20 Units

Single or Combination machines

More customers worldwide are realizing the advantages, leading to increased demand.

2022

2024

2026

42 Units

More Fully automated machines

Demand will remain high and continue to grow from 2026 onwards, with an increasing focus on fully automated variants.

7 Units

Single or Combination machines

The series of our modular system was invented. The first units were sold in Europe

DATA VISUALIZATION – COLLECTING – REMOTE CONTROLLING

Technology
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Software Architecture for data recording and storage



Data Manager: merging, monitoring & reporting

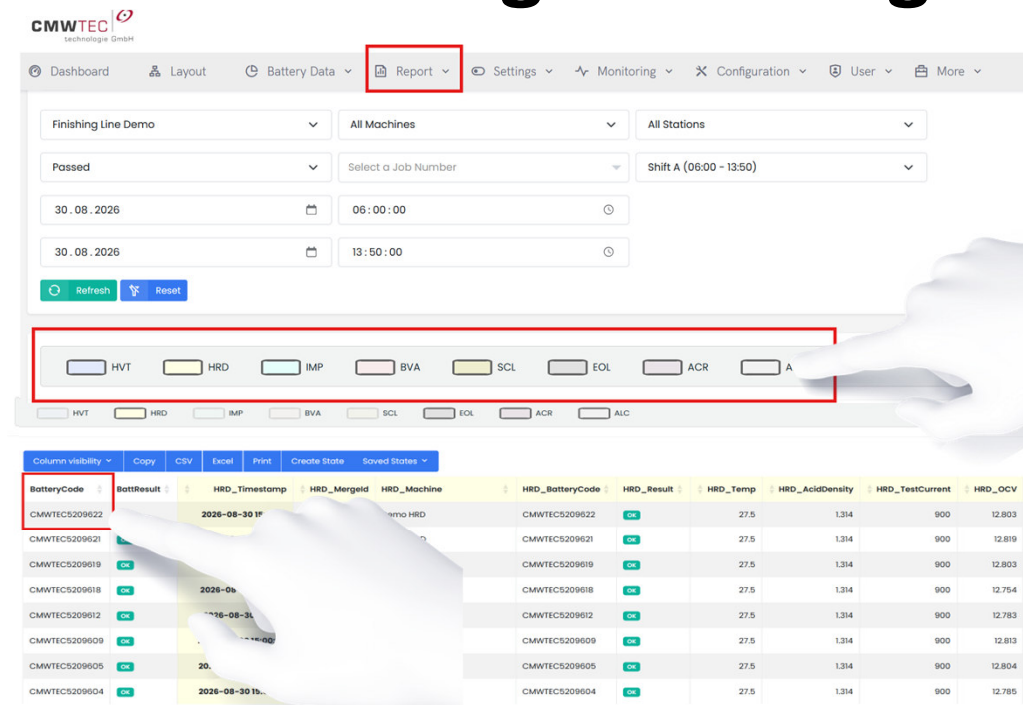


EOL Manager: local & remote control of EOL test system

VISUALIZING – MONITORING & REPORTING

Technology
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Software Architecture for data recording and storage

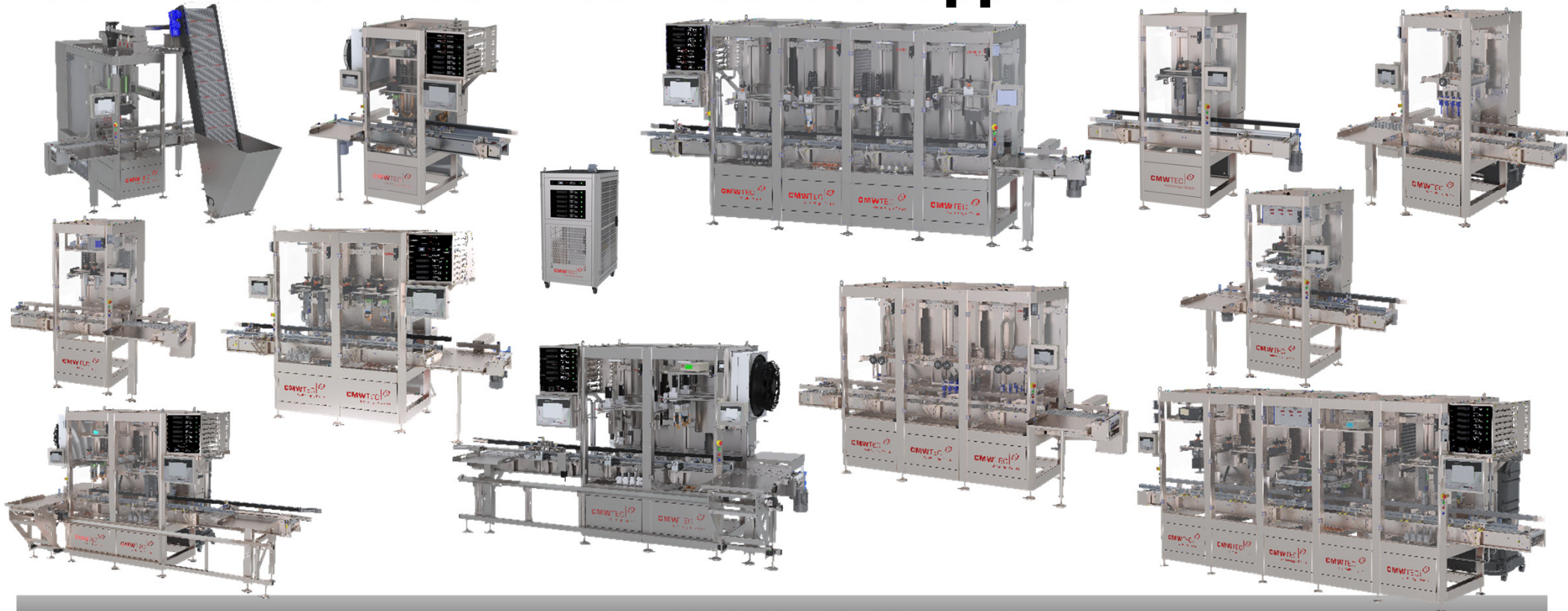
BatteryCode	BattResult	HRD_Timestamp	HRD_Mergeld	HRD_Machine	HRD_BatteryCode	HRD_Result	HRD_Temp	HRD_AcidDensity	HRD_TestCurrent	HRD_OCV
CMWTEC5209622	OK	2026-08-30 15:11		HRD	CMWTEC5209622	OK	27.5	1.314	900	12.803
CMWTEC5209621	OK				CMWTEC5209621	OK	27.5	1.314	900	12.819
CMWTEC5209619	OK				CMWTEC5209619	OK	27.5	1.314	900	12.803
CMWTEC5209618	OK				CMWTEC5209618	OK	27.5	1.314	900	12.754
CMWTEC5209612	OK				CMWTEC5209612	OK	27.5	1.314	900	12.783
CMWTEC5209609	OK				CMWTEC5209609	OK	27.5	1.314	900	12.813
CMWTEC5209605	OK				CMWTEC5209605	OK	27.5	1.314	900	12.804
CMWTEC5209604	OK				CMWTEC5209604	OK	27.5	1.314	900	12.785

Software solutions tailored to production data across all lines

MODULAR TODAY – READY FOR TOMORROW

Technology
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Our modular machines in several applications



HIGHLY EFFICIENT MODULAR MACHINE DESIGN

KEY BENEFITS

The customer value is lifecycle value

ONE PLATFORM

Consistent design across
production lines



PRECISION

Servo-driven units for repeatable
movement



SERVICEABILITY

Removable function blocks
simplify maintenance



FEWER SPARES

Identical components reduce
inventory complexity



FLEXIBILITY

Wide range of applications and
combinations



UPGRADEABILITY

Clear path from automatic to
fully automatic

CLOSING

Modular today!

Ready for tomorrow!

**AUTOMATION WITHOUT LIMITS
LET'S CONFIGURE THE RIGHT MACHINE
FOR YOUR PRODUCTION LINE.**



■ **Visit our website**

Come and see our **LIVE machine demonstration
Today, here at the Exhibition at **Booth No. 93!****

CMWTEC The Battery Finishing Line Expert

Modular today!

Ready for tomorrow!



■ **Follow us on LinkedIn**