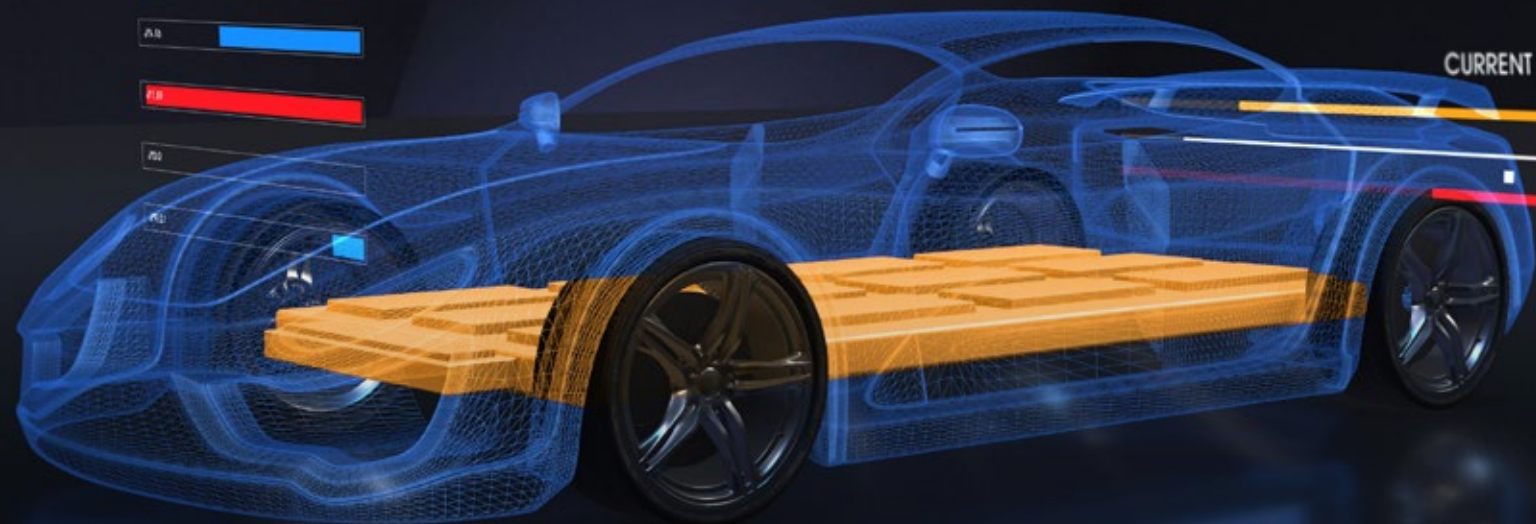


ENGINE DIAGNOSTICS



CURRENT VOLT



Cell line

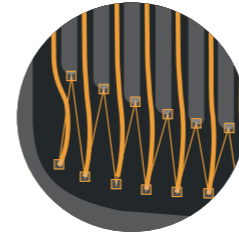
Streamline your cell inspection with our solutions

VC battery

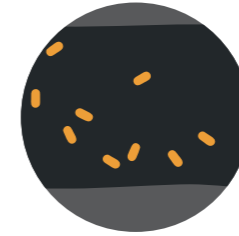
by VisiConsult

VCbattery – Battery Cells

Our X-ray solutions for **battery cells** allow you to uniquely visualize the inside of battery cells with industry-leading resolution and contrast without the need to open them. Find out which of our solutions suits your needs, whether it is a cylindrical, pouched or prismatic.



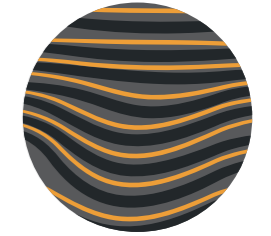
Cathode/Anode Overhang



Foreign Particles



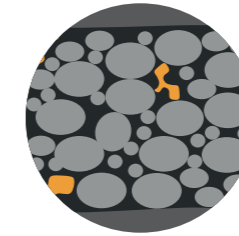
Deflect



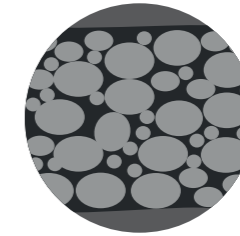
Delamination



Electrode defect



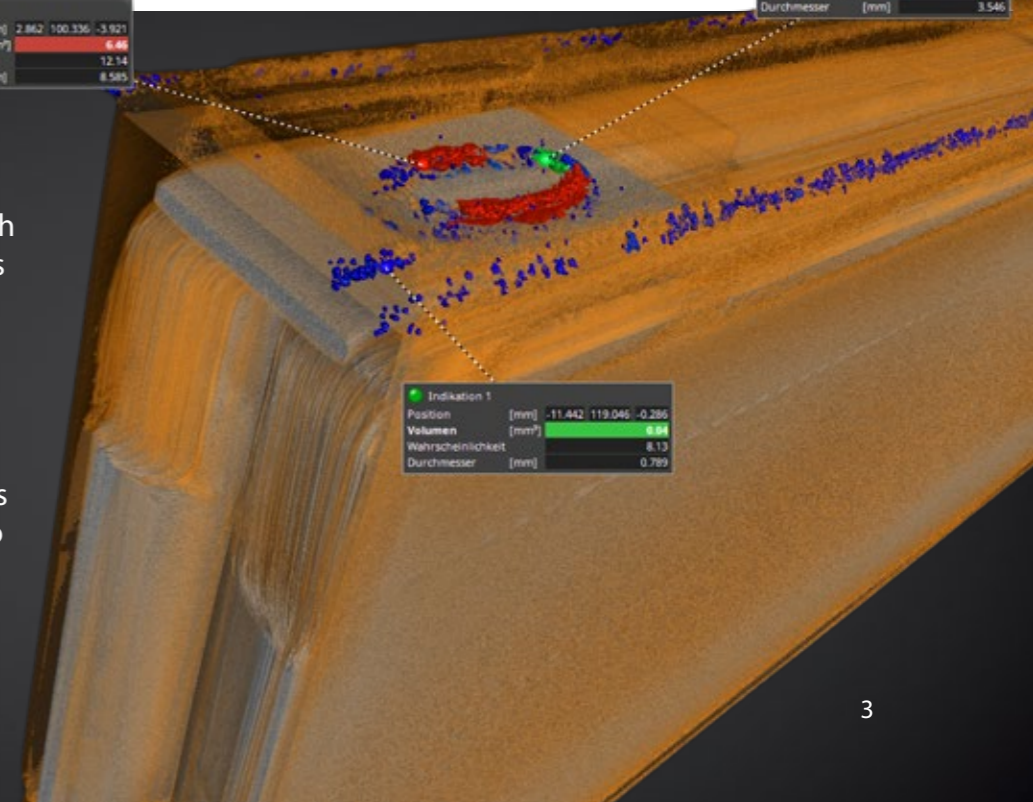
Inclusion



Porosity

Indikation 2	
Position [mm]	2.862 100.336 -3.921
Volumen [mm ³]	6.46
Wahrscheinlichkeit	12.14
Durchmesser [mm]	8.585

Indikation 3	
Position [mm]	0.585 88.328 -4.141
Volumen [mm ³]	2.81
Wahrscheinlichkeit	4.62
Durchmesser [mm]	3.546



Indikation 1	
Position [mm]	-11.442 119.046 -0.286
Volumen [mm ³]	8.13
Wahrscheinlichkeit	8.13
Durchmesser [mm]	0.789



SPEED

2 seconds cycle time for one battery cell



UNIQUE

Faster X-RAY source combined with rapid process automation.



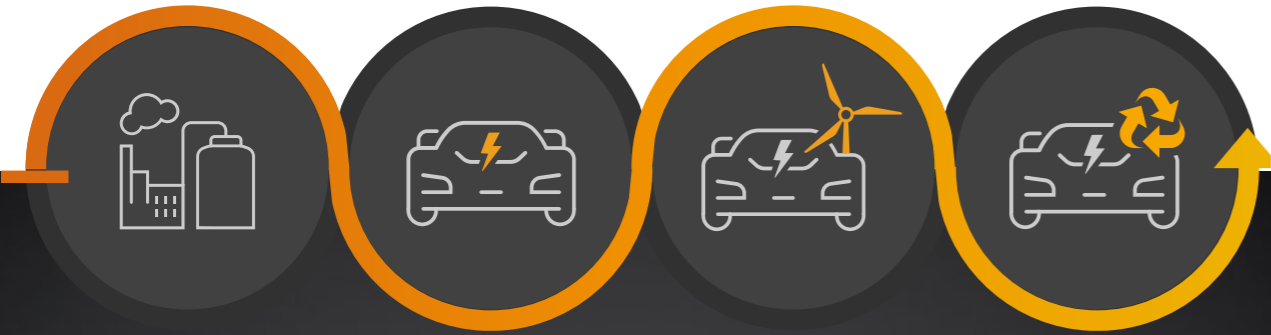
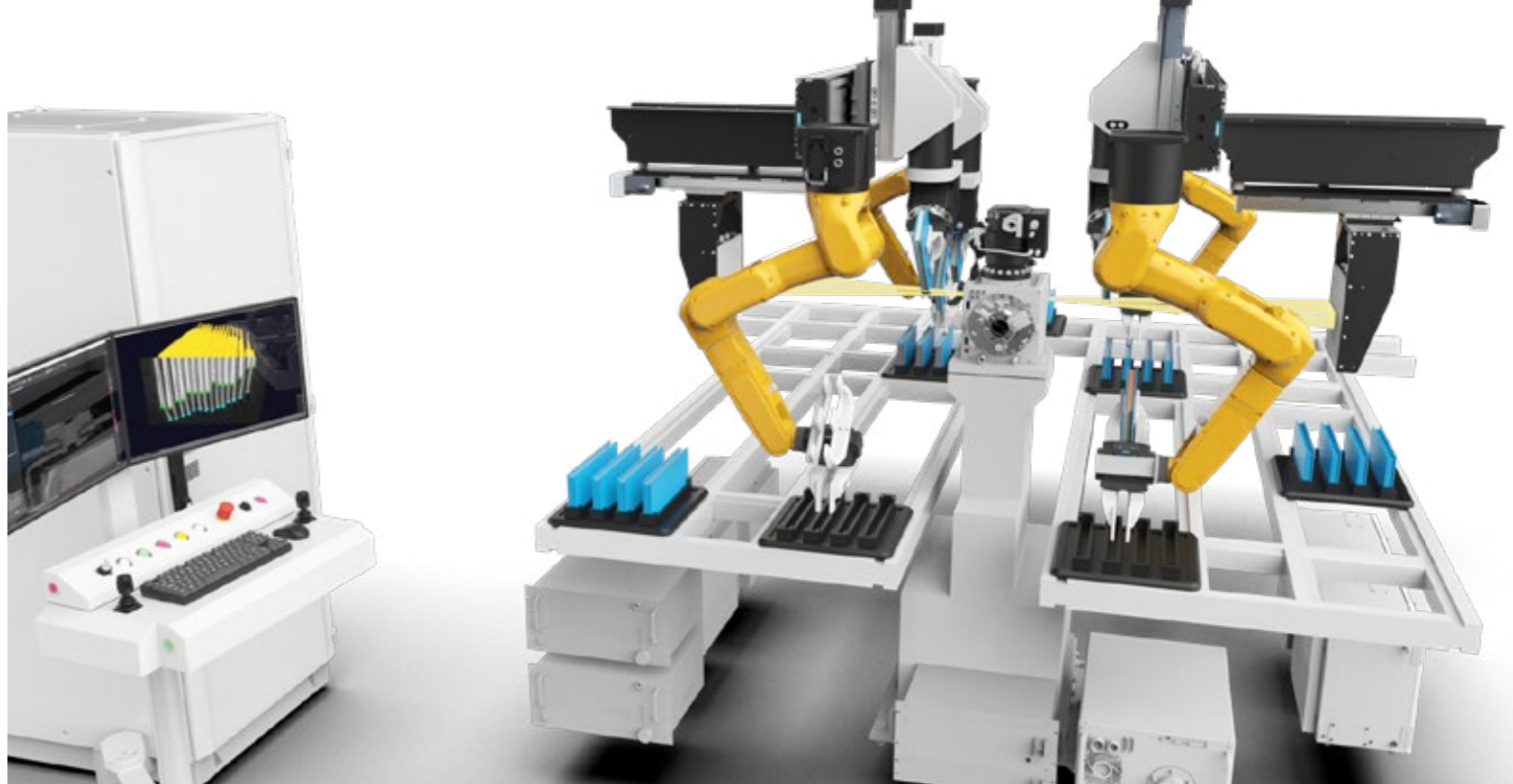
FUTURE-PROOF

Addons like Digital twin, or AI.

Inspection of your sample with our industry-leading solutions provides security and reliable information about changes within production. Exact quantification, localization, and subsequent classification according to known standards can be carried out and help to avoid costly product failures.

HIGH-SPEED X-RAY INSPECTION Solutions for EV BATTERIES Across the Full Value Chain

This is the future of inspection solutions for EV batteries



R&D

Highest resolution and versatility

PRODUCTION

Highest speed to streamline your production process

2ND USE

Highest power for more safety

RECYCLE

Knowledge of the highest sustainability

- ✓ Solution across the full value chain from Off to At- and Inline
- ✓ Cutting edge automation
- ✓ Unique / Customized Xray Solutions
- ✓ Scantimes (lower than 2 sec per scan)
- ✓ Highspeed 3D Inline CT
- ✓ NO Challenge is too big



Our Solutions

for a large range of **battery cells**



Prismatic		✓		✓		✓		✓
Pouch		✓		✓		✓		✓
Cylindrical		✓		✓			✓	✓
Nano CT	✓							
SPEED								
SAMPLE SIZE								
SAMPLE DENSITY								
RESOLUTION								
FLEXIBILITY								

VCB1 | 1+

The VCB1 offers a state-of-the-art, high-performance 3D CT inline/atline solution for battery cell production. It has been specially developed for the inspection of **prismatic and pouched battery cells**.

- ✓ Ideal for process control | monitoring



VCB2 | 2+

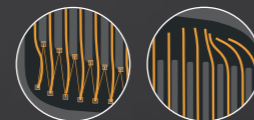
This state-of-the-art, high-performance 3D CT inline/atline solution for battery cell production was specially developed for the inspection of **cylindrical battery cells**.

- ✓ Ideal for process control | monitoring



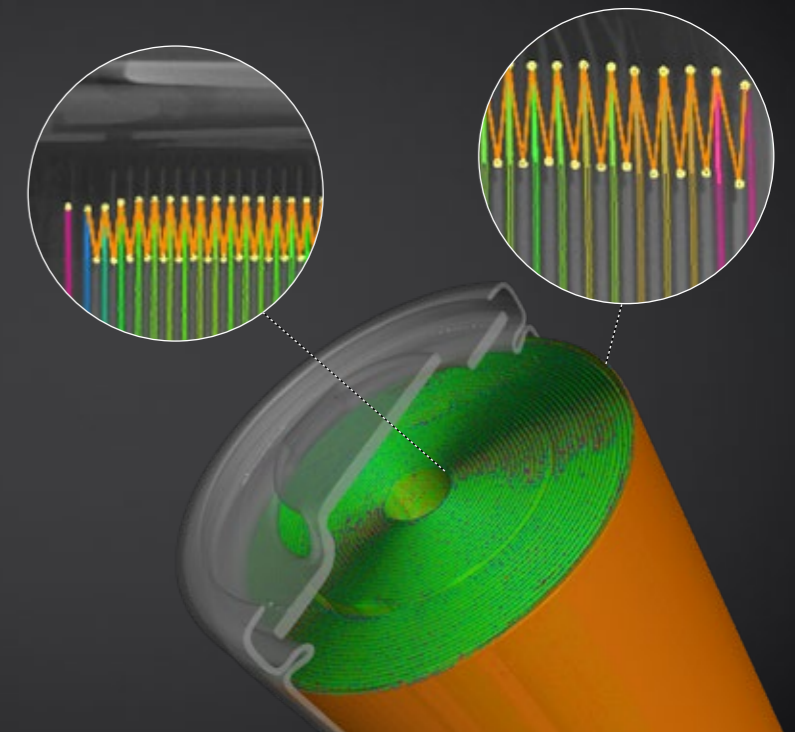
- ✓ Innovative and industry-proven high-speed image chain
- ✓ Up to 30 PPM for single stack – pouched | 15 PPM for dual-stack – prismatic
- ✓ Accuracy according to VDA5
- ✓ Suitable for all common material thicknesses

FOCUS ON



- ✓ Innovative and industry-proven high-speed image chain
- ✓ Scan time 4-10 seconds per full cell
- ✓ 5-10-15PPM, scalable versions
- ✓ Accuracy according to VDA5
- ✓ Full cell scan up to 46120

FOCUS ON

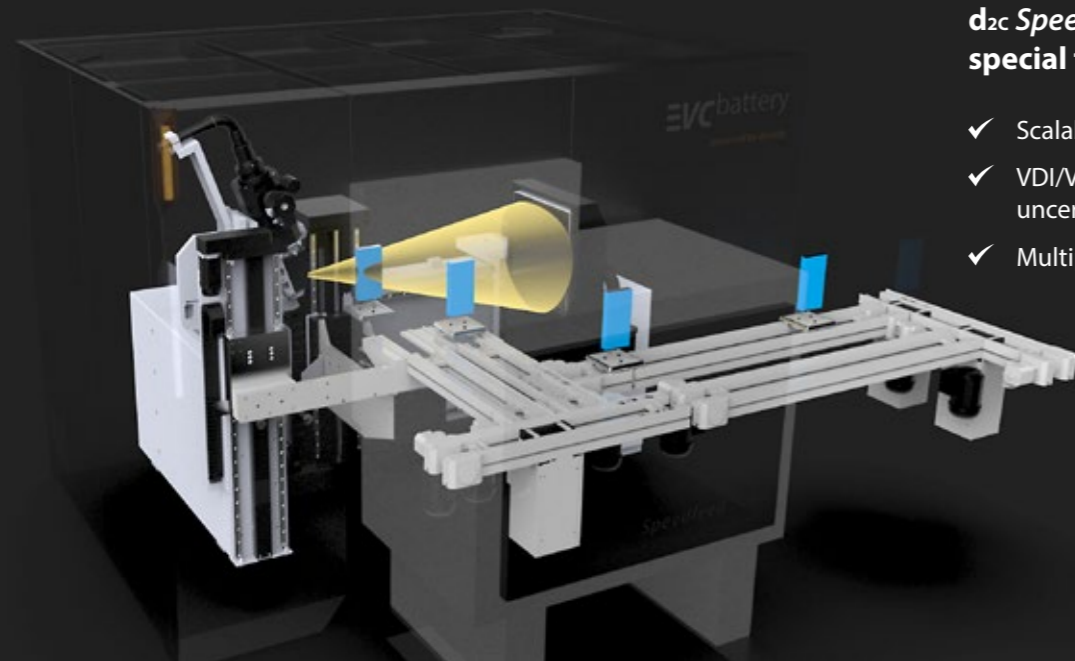
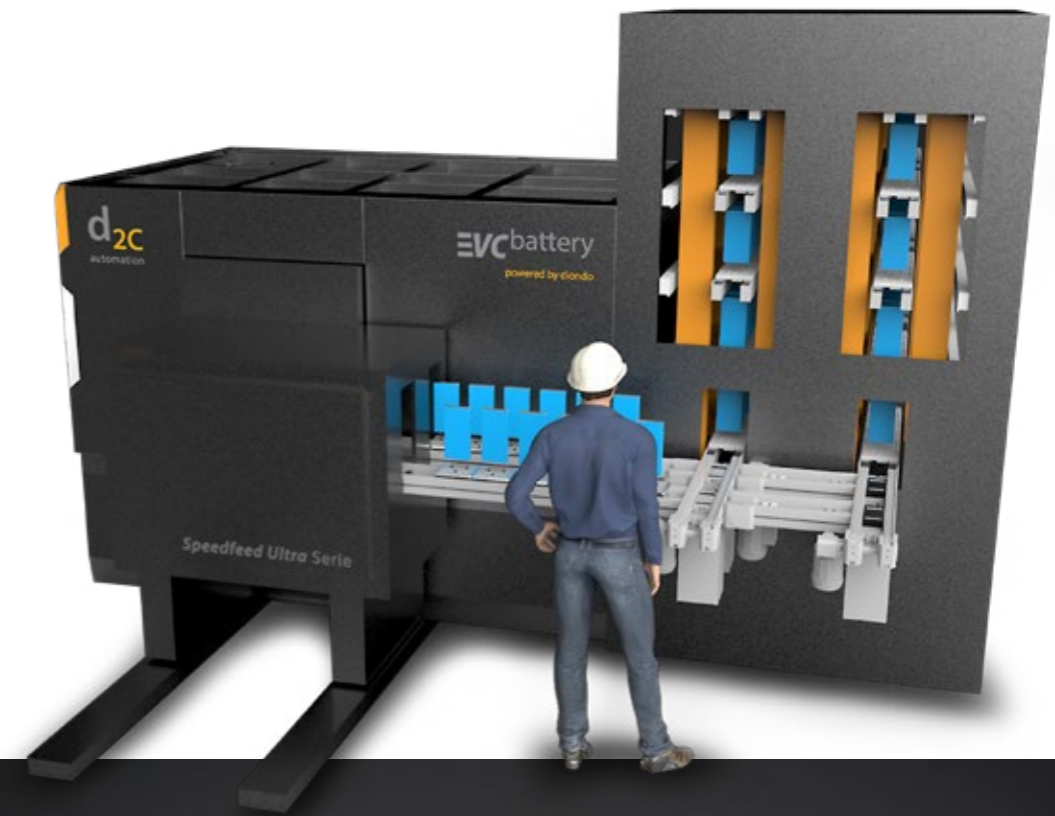
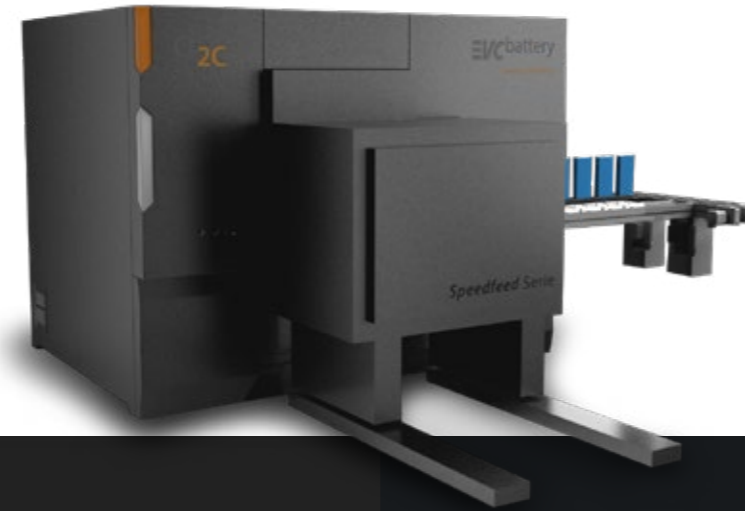


d2c Speedfeed light | ultra

the automation concept for **highest throughput in lab environment**

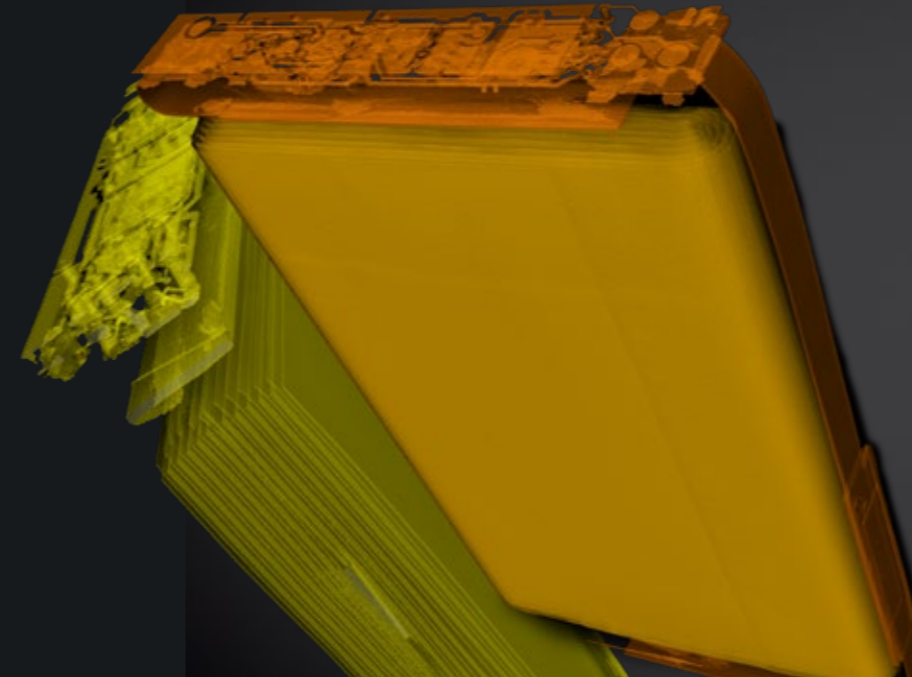
These two upgrade solutions for the diondo d2c CT-System offer automatic part handling, adaptable solutions for prismatic, pouched and cylindrical cells, flexible and easy loading concepts and – of course – automatic defect recognition.

- ✓ Highest throughput on R&D level



d2c Speedfeed light special feature

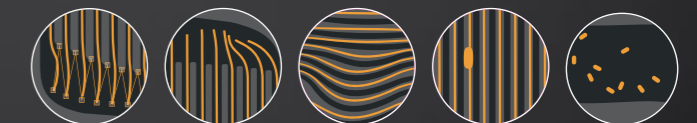
- ✓ Scalable in length and lines
- ✓ VDI/VDE 2630 measurement uncertainty $\leq (5\mu+L/100)$
- ✓ Multiple scan modes



d2c Speedfeed ultra special feature

- ✓ Scalable storage size up to 108 cells on stock
- ✓ VDI/VDE 2630 measurement uncertainty $\leq (5\mu+L/100)$
- ✓ Multiple scan modes

FOCUS ON





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