



Successful production of fuel cells, electrolyzers and Redox-Flow-Batteries

OPTIMA

The OPTIMA Group – global player in packaging technology



3.700

Employees worldwide



1922

Family-owned since its founding



600

Service-employees worldwide



850 Mio. €

Turnover (in 2025)



24

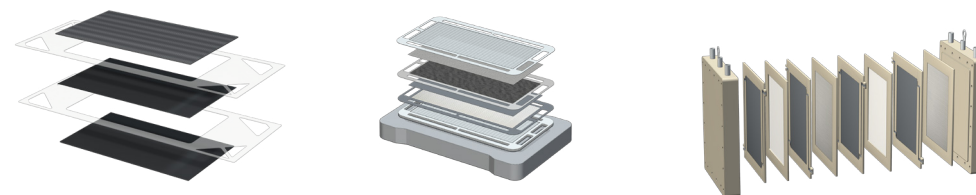
national & international locations

Successful production for the transition of the energy industry

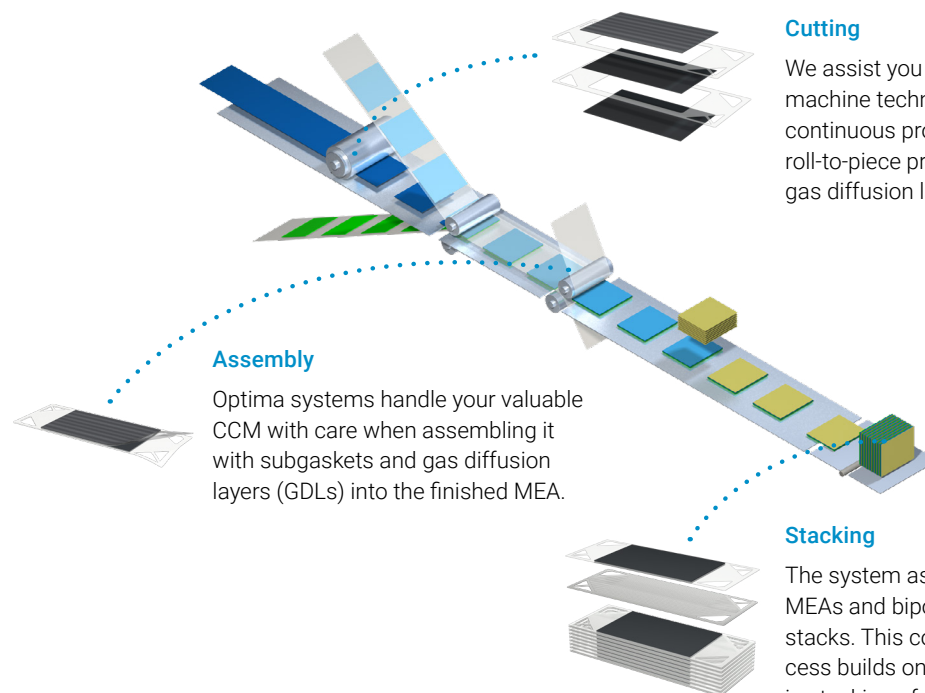
Optima is your partner for fuel cell, electrolyzers and redox-flow-battery production. Innovative machine solutions for the entire value chain, from the roll to the finished stack, enable us to make it easier for you to switch from indexed, piece-based production to continuous processes with higher performance. We will support you, with both solutions for single processes and comprehensive turnkey concepts, based on many years of expertise in building packaging machines.



Over 15 machines in production



Processes



Cutting

We assist you with established machine technologies for a fast, continuous process, based on the roll-to-piece principle, for cutting gas diffusion layers (GDLs).

Assembly

Optima systems handle your valuable CCM with care when assembling it with subgaskets and gas diffusion layers (GDLs) into the finished MEA.

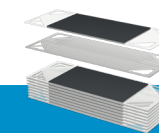
Stacking

The system assembles the individual MEAs and bipolar plates into fuel cell stacks. This complex automation process builds on decades of experience in stacking of various products.

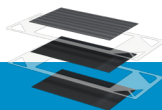
Web converting and stacking equipment for hydrogen applications

OPTIMA

Our machine portfolio for hydrogen applications ranges from R&D¹ to full scale production equipment



Cutting



Assembly



Stacking

Full scale equipment

Turnkey Lines

Customized turnkey equipment



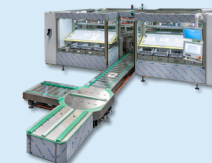
CMS

Continuous motion stacker



IMS

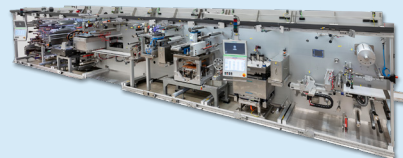
Intermittent motion stacker



Pilot equipment

MEA Pilot Line

MEA Pilot Production Lines for Research and Development



MDC 300/600

Semi-automated Component cutting



FX

Semi-automated pilot plants (FX)



Lab and R&D equipment

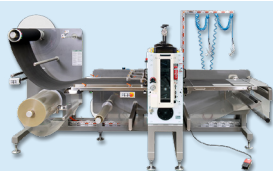
MTC (Permanently at OPTIMA Research Center)

Modular test converter for research, process and product development



CPS

Lab component cutting equipment



PLS

Semi-automated 5 Layer MEA assembly



MEA and stack production technology for fuel cells, electrolyzers and Redox-Flow-Batteries.

Visit our website for more information or get in contact with us directly:



www.optima-packaging.com/energy

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¹ Research & Development