

DIEFFENBACHER: HERE TO STAY SINCE 1873







Long-term orientation 150 years in the business



Independent family-owned



Close to our customers 1,900 employees worldwide



Resilient acting in 4 different markets



Solid revenue Turnover 450+ mil. € yearly



THE DIEFFENBACHER EXPERTISE



Wood-based Panel Industry



Recycling

Energy





























GLOBAL COMPETENCE





YOUR SOLUTION PROVIDER FOR E-MOBILITY





CHALLENGES AND OUR SOLUTIONS FOR E-MOBILITY

Challenges:

- Plant availability
- Plant Downtime
- Best part quality
- High output
- Highly customized products
- Recyclability, green footprint
- Various materials and technologies
- Flame retardancy
- High weights of battery packs

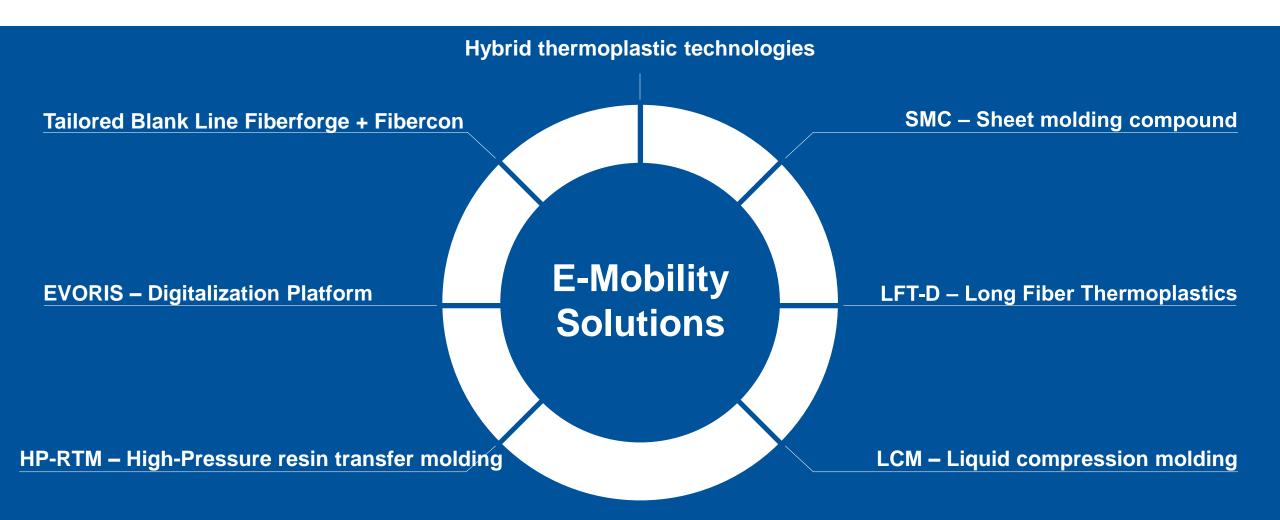
Solutions:

- LFT-D Technology for inline recycling
- Hybrid Production Lines
- SMC Technology with material saving cutting technology
- Digitalization for downtime reduction / prevention
- Predictive maintenance solutions
- Completely automated solutions from a single source
- Combination of materials (LFT-D + Tapes,...)



SOLUTIONS FOR THE E-MOBILITY

Based on Experience, Progress and Innovation





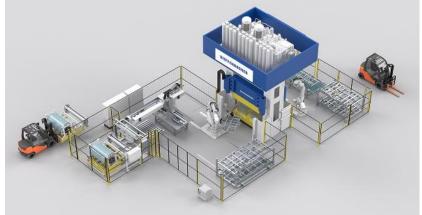
WE GOT THE SOLUTION FOR YOUR CHALLENGE







DIEFFENBACHER- SMC Line



DIEFFENBACHER- LCM Line





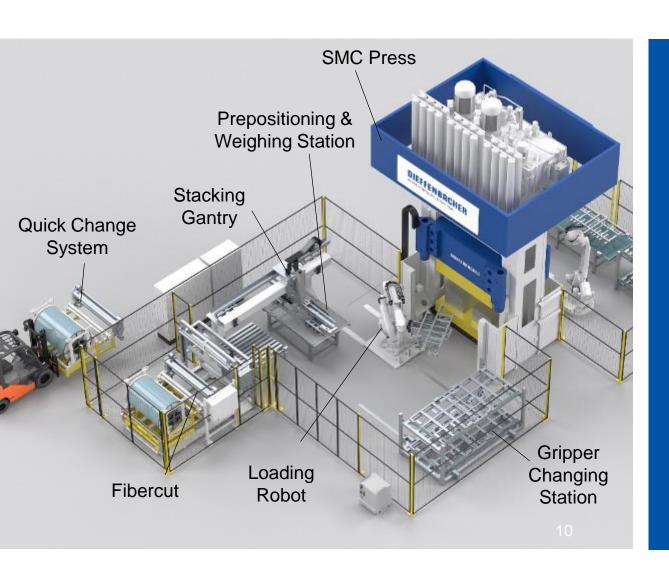


FULLY AUTOMATED SMC-PLANT WITH FIBERCUT



DIEFFENBACHER SMC LINE AUTOMATION





Fully automated Dieffenbacher SMC Production Line

- Fully automated cutting machine -> Fibercut
- High speed stacking gantry for short handling times
- Prepositioning & weighing station
 - Weight measuring of SMC-cuts
 - Creating part specific layup patterns
 - Optional possibility of active weigh compensation
- Loading robot with part specific gripper
- Optional gripper changing station
- Dieffenbacher SMC press
- Unloading robot with part specific gripper
- Output conveyor belt



THE DIEFFENBACHER FIBERCUT, VIDEO





FIBERCUT – MATERIAL CHANGE OVER

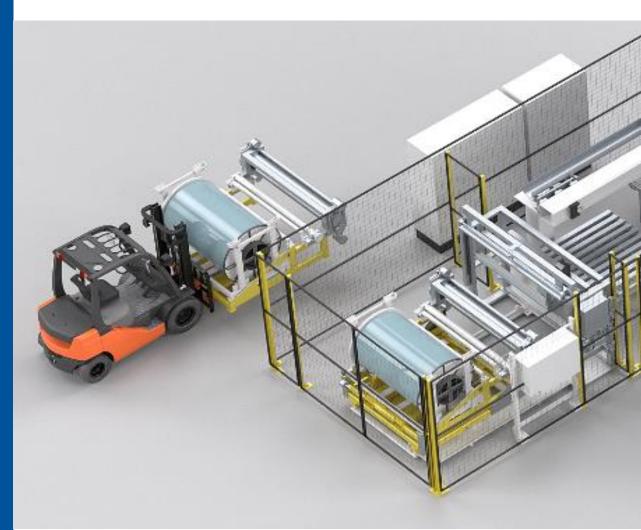
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Quick change of SMC

- The Fibercut gives alarm that end of material will be reached soon
- Limit switch detects end of material and stops the Fibercut
- Empty quick change unit will be removed with a forklift
- Fully prepared quick change unit with new SMC charge will be loaded with a forklift

The new SMC charge is prepared entirely offline without stopping the production.

SMC reloading time: < 5 minutes



The Dieffenbacher Fibercut utilizes SMC Festoons and Coils



FIBERCUT - MATERIAL CHANGE OVER

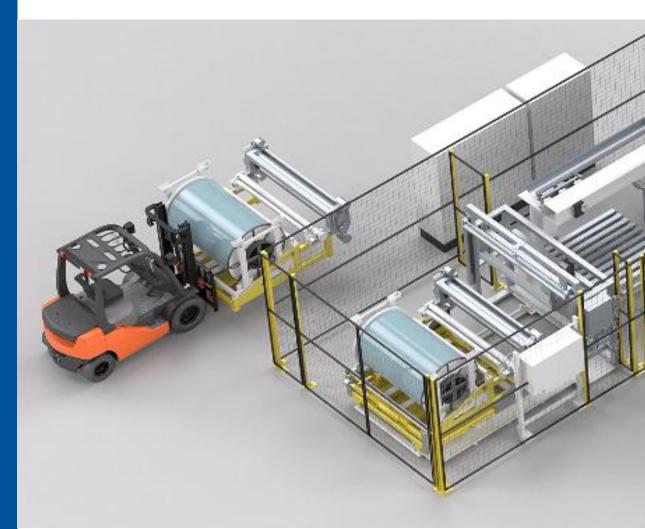
Annual Production (e.g. @120s)	80,000	pcs
Material consumption per part	25	lbs
Material consumption per year	2,000,000	lbs
Material per Festoon	2,500	lbs
No. of coil changes	800	

Savings per change	10 - 15	min
Savings per year	135 - 200	h

~4,000 – 6,000 parts additionally per year

~20,000 - 30,000 parts in 5 years of production

Improvement of output rate ~5-7%



The Dieffenbacher Fibercut utilizes SMC Festoons and Coils

DIEFFENBACHER SMC TECHNOLOGY - ADVANTAGES

Precision - suitable for Class-A components (IMC)

Economic machine concept for SMC components

Fully automated for highest throughput and constant part quality

Advanced Press Technology for reduced scrap rate and less rework

Superior Control System for perfect line integration and smooth processes

Dieffenbacher SMC Technology

Digitalization with EVORIS for better
Process insight and optimization

Dieffenbacher Fibercut for material savings, cycle time reduction and robust processes





EVORIS

Smart digital platform for the forming industry

DIEFFENBACHER

MOVE FORWARD. TOGETHER.









Digitalize your Plant

iba-system

- Comprehensive plant connectivity
- Modular and browser-based platform with apps
- Self-learning systems based on artificial intelligence
- Company-wide access at any time even mobile
- Trainings and ongoing expert support
- Continuous updates and further developments

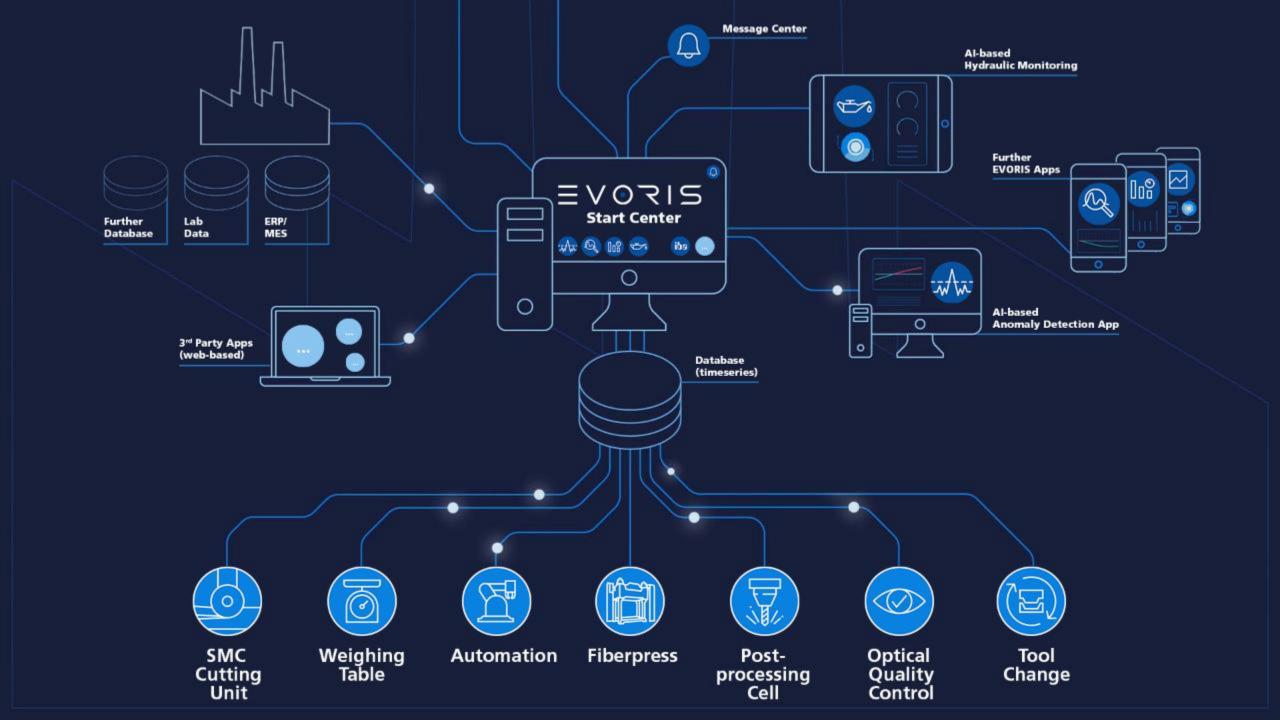


■ VORIS FORMING INDUSTRY



- Better insights into production to make better decisions
- Higher Efficiency
- Increased production output
- Increased plant availability and less downtime
- Reduced scrap rate and costs
- Better component quality







Dieffenbacher

Your solution provider for composites in **E-Mobility-Applications**

DIEFFENBACHER

MOVE FORWARD, TOGETHER.