

Seeing the Big Picture

Optimally designed automation blocks are the key that allows Felsomat to achieve even higher productivity – flexibility is our core principle. From stand-alone automation to flexible manufacturing concept, we create value added through customized solutions. Thanks to our modular approach, capacity adjustments and flexible additions are a given.



Felsomat Solution Oriented

Felsomat demonstrates its high engineering expertise in all areas with the development of customised manufacturing concepts. Accurate analysis of handling and logistics tasks, taking into account technical conditions and layout requirements, are part of our daily business. We think about the ideal complete system. Ideal because we optimize space, costs and resources and consequently achieve economical, scalable automation concepts for any production environment.

More than 35 Years of Experience – 10,000 Completed Projects

We have been focusing on increasing productivity since the company was founded in 1981. Decades of experience in automation technology and continuous new developments and enhancements to the modular automation system ensure our sustainable competitiveness in the market. With more than 10,000 completed projects, we can draw from an extensive experience and know-how from many areas and applications to shape our future projects.

Industry 4.0

Felsomat aims to combine the potential of the existing production technology with that of the information and communication technology to create a new quality standard. Data management and connectivity in combination with process control / regulation, create the basis. Additional features, such as energy management, tooling & workpiece control and service & help functions assist operators in targeted and simple handling of complex manufacturing lines. In addition, the manufacturing line is simulated thus process improvements, enhancements or new setups can be visualized ahead of time.

Globally Connected – Locally Specialized



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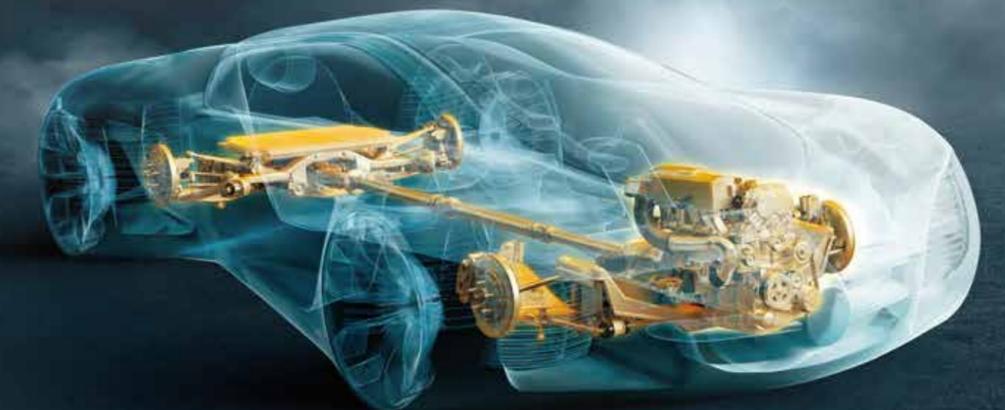
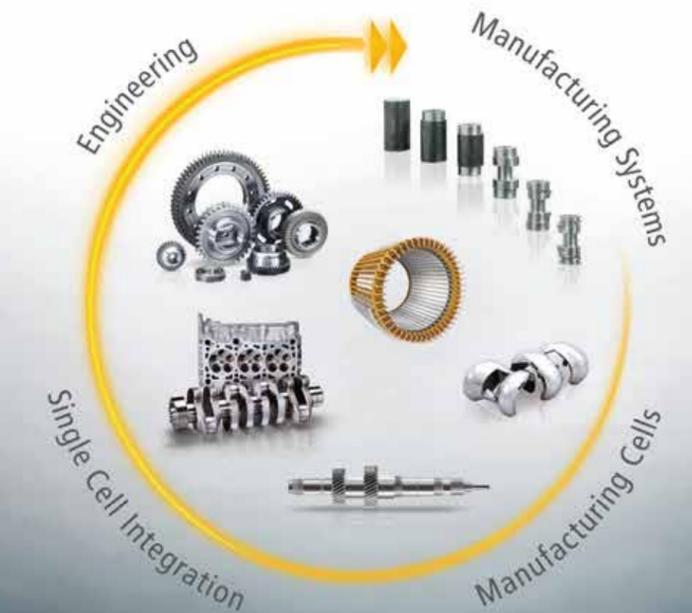
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Automation Systems

Higher Productivity with Custom Automation



The Modular System



Gantries

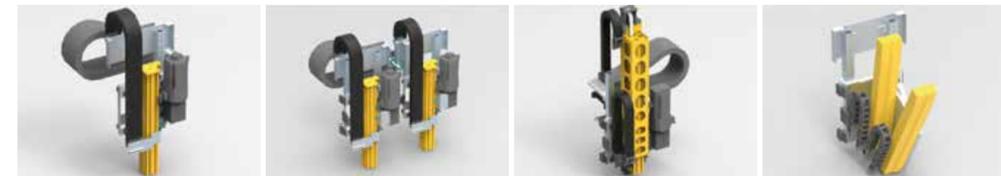
Gantry Carrier

PE 100 / FA 100 / 5 kg PE 02 / 25 kg PE 03 / 50 kg PE 04 / 150 kg



Loader Types

I-loader H-loader Telescopic loader V-loader



Loader Types

4-axis horizontal 4-axis vertical Bucket axis Y-axis Area Gantry



Robotics

6-axis Robots 7-axis Robots

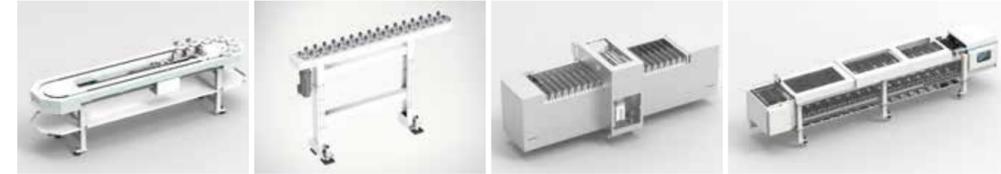
6-axis 5 kg 6-axis 10 kg 6-axis 60 kg 7-axis (ground) 7-axis (gantry)



Manual Parts Provision

Conveyor Modules

Accumulating conveyor Indexing conveyor Prism conveyor Gondola conveyor



Storage Systems

Infeed Modules Warehouse Buffer System

Drawer buffer system Skewer buffer system Mass-flow table Logistics module



Storage Systems

Pallet Buffer Systems

FSC 600 Basket Buffer 600 FC 600 / FC 800 LC 1000 / 1200

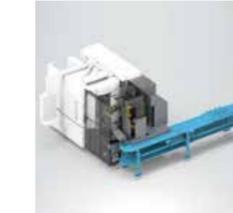


Additional Stations

- » Blowing station
- » Heating station
- » Tilting station
- » Suction mechanism
- » Joining station
- » Centrifuge for drying
- » Aligner
- » Camera inspection
- » Rotary indexing table
- » Brushing station
- » Laser marking station
- » SPC / NIO
- » DMC Reader
- » Laser cleaning station
- » Ultrasonic inspection
- » Deburring station
- » Deoiler
- » ...

Wherever you see Felsomat automation modules in action, you will experience technology that is designed to optimize each process step in a production environment. We believe that the best possible automation solution for any given manufacturing process can be configured from a modular platform.

Stand-alone Machine Concatenation



Machines and cells from different processes are grouped together into stand-alone systems allowing several operating sequences to be accomplished one machine, based on demand, thus optimizing the machine utilisation (e.g. soft turning, drilling / milling etc.).

Manufacturing Cells



In manufacturing cells, specific operations (e.g. AF10-AF40) are grouped together. Each cell produces a finished product within that operation, which means that different machines and systems can be used flexibly with one automation system.

Manufacturing Systems



In manufacturing systems, machines and cells are arranged according to the production flow (flow principle), which means they are arranged based on the required operating sequence. The workpiece runs through all processes in synchronized machines. Demand-driven decoupling between individual processes can also be provided (flexible line manufacturing).

	Single Cell Integration	Manufacturing Cells	Manufacturing Systems
Machine loading			
Gantry	●	●	●
Robots	●	●	
Manual (people)	●		
Buffer / decoupling modules			
Logistics module			●
Stacker cells	●	●	●
Conveyors	●	●	●
Table buffer	●	●	
Material flow			
Automatic		●	●
Semi-automatic	●	●	
Manual (people)	●		