



DIMOFAC

PARTNERS

Featuring



ABOUT FILL

Founded in 1966, FILL is an international leader in special machine and plant engineering for the automotive, aerospace, sports, energy wood and construction industries. A high standard of manufacturing system technology is combined with intelligent storage and processing of critical machine parameters. FILL has an integrated management system covering all aspects of quality, health and safety and environmental protection and has been ISO 9001 certified since 1997. One of FILL's core competencies is robotic machining. Here, among other things, FILL develops dedicated solutions for machine data collection and productivity optimisation. These software applications and data management solutions for industrial production facilities are the basis for cyber-physical systems and the visions of Industry 4.0. FILL CYBERNETICS products are an integral part of Fill's machines and systems. They include monitoring of complex individual processes, seamless tracking of components and automated plant optimisation using artificial intelligence and cover the entire range of solutions required. In the FILL FUTURE ZONE, the center for digitalization, research and development, experts and data scientists work on the further development of digital products. For years FILL has established itself as an important participant at the most important international fairs in the field of plastics and aerospace and has the fundamental market experience.



The FILL FUTURE ZONE is a high-tech center for the advancement of digitalization, software engineering, and mechanical development. ©raumpixel

FACTS & FIGURES

975

Employees

139K m²

Operating area

100%

Family-owned

€ 187M

Sales (2022)



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FILL YOUR FUTURE

We want to shape the future positively, jointly, and sustainably wherever we can: in our region, with our employees, through the projects with our customers.

We build on trust, fairness, security, innovation, consequence, reliability, responsibility, acceptance, competence, and tolerance. Because, if you are seeking the best solution, shape your future with Fill.



The Future Dome is the venue for many internal events – not only for Fill. It is available to all people and organizations that are open to the future. ©Fill

WE ARE ONE!

INVOLVEMENT IN DIMOFAC



Fill Robot Lab: Induction module configuration ©Fill

What is your role in the DIMOFAC project?

FILL leads in WP5 the OT (Operational Technology) implementation and integration tasks for multimaterials and advance joining technologies domain. Moreover, as one of key integrators will lead further industrial exploitation of the DIMOFAC solution. In this regard, FILL will deploy in WP6 an industrial showroom (NC Robot Lab) to show to interested companies the benefits in investing for adopting modular and reconfigurable production lines in their facilities. Finally, FILL collaborates in WP3 and WP4 in hardware and software interfaces for plug and produce capabilities and modular equipment deployment and testing.



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What are the knowledge or skills that you bring to DIMOFAC?

FILL is a leading international manufacturer of specialist machinery and equipment for various industries. One of FILL's core competencies is robotic machining. Here, among other things, FILL develops dedicated solutions for machine data collection and productivity optimisation. These software applications and data management solutions for industrial production facilities are the basis for cyber-physical systems and the visions of Industry 4.0.

Why did you decide to participate in DIMOFAC?

Gain experience in developing and deploying intelligent, modular and reconfigurable production lines for complex products.

What challenges do you have at the moment in DIMOFAC and how are you overcoming them?

There are no real challenges. The cooperation between the project partners is excellent and everyone contributes their knowledge and expertise to overcome any obstacles as best as possible.

How do you see the DIMOFAC innovation in the Manufacturing Industry?

The solutions developed (fusion of digital models with real manufacturing) could enable the introduction of a true modular factory concept. They could enable highly adaptable production lines (AAS architecture for rapid reconfiguration and commissioning) and increase market share and access to new areas and customers.



Fill Robot Lab: Technalia testing LASER-module ©Fill

What are the benefits that you have/are taking away from this collaboration?

The automation of flexible production lines for the manufacture of multi-material components using robots with flexible tools is feasible.

What are the learnings you have gained from participating in DIMOFAC?

Handling and processing of metal/thermoplastic multi-material parts. Establishing a portfolio of production modules including laser texturing, metal/thermoplastic induction joining and US scanning techniques.

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Everything is going according to plan.
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