

ESI Engineering System International GmbH

Leading innovator for virtual prototyping software and services

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

As a specialist in material physics, ESI has developed the unique expertise to support industrial manufacturers in replacing physical prototypes with virtual prototypes. This enables the virtual manufacture, production, testing and pre-certification of future products.

Thanks to the latest technologies, virtual prototyping is now anchored in the comprehensive concept of the product performance lifecycle, which addresses product performance and behaviour throughout the entire lifecycle - from commissioning to disposal. To achieve this, ESI works with the Hybrid Virtual Twin - a virtual model that combines simulation, real physical properties and data analysis. This enables manufacturers to deliver smarter and connected products and predict their performance, behaviour and maintenance needs. ESI offers SOFTWARE SOLUTIONS in the following areas: Additive Manufacturing, Casting, CFD, Cloud, Composites, Data Analytics, Electromagnetics, Sheet Metal Forming, System Modelling, Vibro-Acoustic, Virtual Integration Platform, Virtual Performance Solution, Virtual Reality, Virtual Seat Solution, Virtual Systems & Controls, Welding

Siemensstr. 12B
63263 Neu-Isenburg
Hesse
Germany
www.esi-group.com



Organisation type

Small or medium-sized enterprise

Sectors



Employees

500 and more

Turnover

n/a Aktuelle Zahlen finden Sie auf der Website: <https://www.esi-group.com/company/about-esi-group>

Funding

n/a



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Main areas covered PAM-COMPOSITES, PAM-STAMP, SYSWELD, Casting Simulation Suite, Virtual Performance Solution

Infrastructure

Certifications ISO 9001 : 2008

Keywords Smart Virtual Prototyping, Engineering Solution, Software and services, Production, manufacturing and testing

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	✓
Services & consulting Distribution, Testing and trials, Engineering, Prototyping, Simulation	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation		✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Others	✓	✓	
<i>Coating (surface engineering)</i>			
Fibre composite technology			
Fibre spraying, Filament winding, Casting (concrete), Resin infusion process, Resin transfer moulding, Pre-preg processing, Spinning (concrete), Spraying (concrete), Vacuum infusion	✓		
Forming			
Bending, Impact extrusion, Compression moulding, Forging, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Fluid active media based forming, Rolling	✓		
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming			
Casting, Injection moulding	✓	✓	
<i>Processing and separating</i>			
Textile technology			
Braiding, Preforming	✓	✓	

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
Metals Aluminium, Steel, Titanium	✓		
Plastics Thermoset plastics, Thermoplastics	✓		
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts	
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