GE Sensing & Inspection Technologies

Manufacturer devices and systems

About this organisation

Machine translation

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

GE Inspection Technologies is a provider of non-destructive testing solutions that improve productivity, quality and safety. We develop and manufacture equipment and systems for visual, ultrasonic, radiographic and eddy current inspection. Applications focus on solutions for the aerospace, power generation, oil and gas, automotive and metals industries.

Improved vehicle equipment leads to an increase in weight. The higher weight also means higher fuel consumption. This is just one argument in favour of the current lightweight design of new vehicles. While steel was the most important material for automotive construction in the past, other materials such as plastics, composites, magnesium and aluminium will gain in importance in the future. The use of different materials leads to new joining techniques, as traditional joining techniques such as spot welding can only be used to a limited extent. Combined joining processes are state of the art (hybrid joining). With our devices and systems, you can test the joints non-destructively: e.g. weld seams, spot welds, laser seams, MIG/MAG joints and bonded joints. By replacing the previously necessary destructive testing, costs can be saved in vehicle construction. Process optimisation through feedback of digital test data.

Robert-Bosch-Str. 3
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Germany
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GE Oil & Gas Digital Solutions

Organisation type
Large enterprises

Sectors

Employees
500 and more

Turnover
n/a

Funding
n/a

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About this organisation

Main areas covered	Sensors, devices and systems
Infrastructure	Test bench, sensors
Certifications	ISO 9001, EN 17025
Keywords	Non-destructive material testing
Memberships	

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products Machines and plants, Software & databases, Systems and end products	✓	✓	✓
Services & consulting Training, Consulting, Distribution, Validation, Simulation, Maintenance and repair	✓	✓	

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures	✓	✓	✓
Functional integration Sensor technology, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Optimisation, Processes, Materials	✓	✓	✓
Plant construction & factory automation Automation technology, Robotics	✓	✓	✓
Recycling technologies			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Electron beam melting, Fused deposition modeling	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining Hybrid joining, Adhesive bonding, Soldering, Welding	✓	✓	✓
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials) Closed-pore, Open-pore	✓	✓	✓
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Metal-ceramic composite, Metal matrix composite, Natural fibre reinforced plastics (NFRP), Laminates	✓	✓	✓
Fibres Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres	✓	✓	✓
Functional materials			
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	✓
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
Structural ceramics Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics	✓	✓	✓
(Technical) textiles			

Contacts

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