Ruhr University Bochum
Chair of Solid Construction

About this organisation

Machine translation

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

The Chair of Concrete Structures has been researching concrete structures for over 50 years. The research topics and methods are theoretical and experimental in nature and originate from basic and applied research.

At the Chair of Concrete Structures, the design and dimensioning with structural optimisation methods and the associated experimental implementation, feedback and verification has been a research focus for over 15 years. The aim is to holistically improve the efficiency of concrete structures, from the external shape to the cross-section through to the choice of materials, to design them to suit the building material and to make them robust. The form-finding strategies developed for load-bearing structures include shells, slabs, beams, discs, bar structures and segments.

Universitätsstr. 150
44780 Bochum
North Rhine-Westphalia
Germany
massivbau.ruhr-uni-bochum.de

Organisation type
University or higher education institution

Sectors
No specific sector

Employees
500 and more

Turnover
n/a

Funding

Main areas covered Easy building with concrete

Infrastructure

Certifications

Keywords

Memberships

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Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components	✓		
Services & consulting Training, Testing and trials, Simulation	✓		
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology Component and part analysis, Destructive analysis	✓		
Modelling and simulation Loads & stress, Optimisation, Reliability validation	✓		
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

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Contacts

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Mr Dr.-Ing. Patrick Forman

Research assistant

patrick.forman@rub.de