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Portable, quick and versatile: 3D concrete printing from Umdasch Group Ventures

Technology leader Umdasch Group Ventures presents new construction methods at bauma 2022, including new 3D construction printing

Umdasch Group Ventures is specialised in innovative construction methods, state-of-the-art technologies and future-oriented solutions that enable the digitalisation of the entire construction life cycle. Umdasch Group Ventures' Future and Innovation Hub is always one step ahead of what the future construction industry needs. Product development is led by the principles of using resources sparingly, ensuring profitability and delivering environmentally friendly solutions. The ultimate objective is to make construction processes and the construction site as safe, successful and efficient as possible. 3D concrete printing from Umdasch Group Ventures is setting the benchmark for the future with its state-of-the-art technology and the potential that it delivers.

"The digitalisation of construction is the industry's answer for the future. Our aim is for our innovations to open up the full potential of modularisation and automation on construction sites, as well as digitalisation and data management within the construction sector. To this end, development focuses on the entire construction life cycle," says COO Johann Peneder, summarising Umdasch Group Ventures' future-centric approach to development. The revolutionary 3D construction printing will provide testimony to this innovative focus at bauma 2022, which will take place between 24 and 30.10.2022 in Munich. The ground-breaking technology of 3D concrete printing is a prime example of how Umdasch Group Ventures is leading the way into the digitalised construction industry of the future.

3D concrete printing: Umdasch Group Ventures is developing innovative future technologies

Production of concrete elements without the need for formwork. In a factory or on the construction site: 3D construction printing from Umdasch Group Ventures is **quick, efficient and sustainable**. It reproduces the **shortest, digitally continuous process from design to production**. The concrete elements are simply printed directly from the digital construction plans. The unique honeycomb structure enables the production of any type of shape and means that the concrete dries faster. The possibility of creating a mix to suit the specific needs of the project saves costs and materials. **Saving up to 50% of material helps reduce**

consumption of valuable resources and lowers the carbon footprint of the construction project.

Greater concrete construction efficiency with the new-generation 3D construction printer

The portability and light weight of the system means that it can be used for many different applications on site. The portable 3D concrete printer from Umdasch Group Ventures plays a critical role on the construction site 4.0, **where hybrid construction methods enable synergies to be leveraged within the construction process.**

The new 3D construction printing competence centre (3DCP)

Concrefy – the company's international centre of competence for concrete technology, based in Venlo – is continuously developing the technology so that concrete printing remains a cost-effective solution for overcoming the challenges of the future. 3D construction printing is a solution for overcoming the challenges presented by buildings of the future.

Umdasch Group Ventures presents its innovative solutions at bauma 2022

The new 3D construction printer will be showing what it's capable of on the Umdasch Group Ventures stand at bauma 2022 in Munich. There will also be a comprehensive programme of events on all seven trade fair days where industry experts will be giving exciting presentations about construction, digitalisation and sustainability. Alongside its innovative 3D construction printing, Umdasch Group Ventures will also be presenting its new **digital construction progress recognition software** at bauma. The AI-based system with a 3D computer vision system detects physical objects and people on the construction site and uses 3D technology to deliver valuable information about their location. The companies and holdings of Umdasch Group Ventures – NeoTwin, NEULANDT, CONTACT and Concrefy – will also have an exhibition stand at bauma 2022, where they will present their latest solutions for modern construction processes:

The real-estate platform for constructors, investors and real estate asset managers:

The Munich-based prop-tech company NeoTwin, part of Umdasch Group Ventures, has developed a platform to control projects and manage real estate assets by digitalising the entire building life cycle. All processes and data are consolidated on a single, central platform.

The portable precast plant N3P, designed to create affordable living spaces: The portable precast plant N3P from NEULANDT enables the industrial mass production of precast concrete elements on the construction site. The plant's innovative butterfly

technology, based on hinged steel formwork, enables efficient, sustainable and economic construction anywhere in the world.

Innovative construction site software for managing construction projects: Specialists in construction site optimisation and digitalisation CONTACT has developed the construction site software Sitelife in collaboration with b.i.m.m. Sitelife enables construction companies, construction managers, foremen and project developers to manage construction sites and all subcontractors digitally – from the digging of the foundations to final handover.

Value engineering for concrete production: The concrete specialists Concrefy has developed Factory Production Control, an innovative decision support tool designed to digitally monitor the performance of freshly poured concrete. This provides a clear overview of all key information about the concrete produced so that the concrete and the production process can become more efficient, cost-effective and sustainable.

bauma 2022 information:

Umdasch Group Ventures – the Umdasch Group’s innovation hub for construction and retail industry solutions – will be sharing an **exhibition stand** with the Group’s other companies and brands:

NeoTwin – the building owner platform designed for the entire building life cycle,

NEULANDT – with the portable precast plant N3P,

CONTACT – designed for the digital construction site, and

Concrefy – the concrete experts.

The adjacent stand will be hosted by **Doka**, formwork technology experts within the multinational Umdasch Group.

Images

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Images of 3D digital construction printing:



On-site 3D construction printing

The 3D construction printer from Umdasch Group Ventures can be used both in prefabrication and directly on the construction site, thanks to its light and compact structure and innovative technologies.

Photo: bauma-ugv-01.png

Copyright: Umdasch Group Ventures



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The 3D construction printer from Umdasch Group Ventures can be used both in prefab production and directly on the construction site, thanks to its light and compact structure and innovative technologies.

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About the Umdasch Group

The Umdasch Group, founded over 150 years ago in Austria, is a family-managed multinational group of companies. The innovative strength and expertise of the Umdasch Group, consisting of Doka (a global market leader in formwork technology), Umdasch The Store Makers, (specialists in shopfitting and retail) and Umdasch Group Ventures (the innovation hub for the construction and retail industries), is represented globally in more than 170 locations on 5 continents, and employs almost 8,300 people.

www.umdaschgroup.com

About Umdasch Group Ventures

Umdasch Group Ventures is the technology driver within the Umdasch Group, developing new, disruptive solutions and business models. The company invests in mature start-ups and young enterprises that provide potentially disruptive business models and/or unique technologies/services in the fields of construction and retail. The aim of the innovation hub is to continue developing their own ready-to-market business models and portfolio of strategic investments, to establish these on the market and drive market growth.

www.umdaschgroup-ventures.com

About NeoTwin

NeoTwin provides a platform for controlling projects and managing assets throughout the entire building life cycle. The Munich-based prop-tech company in which Umdasch Group Ventures has a 51% share addresses the major challenges in the construction and real estate sectors. NeoTwin is a central tool for managing entire real estate portfolios, construction projects and renovation projects, and has primarily been designed for constructors in the public and private sectors, as well as owners and operators of buildings, regardless of the types of building and their use, and infrastructure operators.

www.neotwin.com

About NEULANDT

Since its founding in 2019, NEULANDT has specialised in the active development of future-oriented construction solutions. N3P – the portable high-performance plant for the industrial production of precast concrete elements resolves many global challenges. A subsidiary of the Umdasch Group Ventures innovation hub, NEULANDT is setting new benchmarks and designing tomorrow's living spaces for hundreds of people. Being a member of the Umdasch Group, NEULANDT has the backing of a strong group of companies and benefits from long-standing experience and expertise in the construction industry.

www.neulandt.build

About CONTACT

As a corporate start-up, CONTACT consolidates comprehensive construction expertise from a wide range of different areas and software development within the one company.

CONTACT GmbH was borne out of the innovative strengths of Umdasch Group Ventures GmbH. It specialises in the development of revolutionary concepts for the construction and retail industries.

www.kontakt.com

About Concrefy

Concrefy is an international centre of excellence for concrete technology, focusing on the construction industry as a whole, specialising in particular in the concrete industry. With over 40 years of first-hand experience in this field, the team of concrete technologists is an expert port of call for all concrete-related issues. A subsidiary of Umdasch Group Ventures and member of the global Umdasch Group, Concrefy develops innovative solutions to optimise industrial production processes and operations in the construction and precast concrete industries – driving greater safety, productivity, transparency and sustainability.

www.concrefy.com