

## **MESH technology nominated for the bauma Innovation Award 2022**

Zurich, 08.09.2022.

**MESH AG has developed the world's first robot-assisted technology for the production of complex reinforced concrete structures without formwork. The innovative production process offers new design possibilities for the construction industry, while at the same time eliminating the need for costly and resource-intensive special formwork. The new robotic construction method thus makes an important contribution to greater efficiency, sustainability and design freedom in the construction industry. The MESH technology has been nominated for the bauma Innovation Award 2022 in the Digitalisation category.**

The so-called MESH technology makes it possible to produce complex or curved reinforcement cages, which were previously manufactured in laborious manual work, by means of an automated prefabrication process. Reinforcing bars are continuously positioned, bent and welded into a three-dimensional reinforcing grid by a robotic process. The reinforcement cages are positioned on the construction site and connected to each other. The grid structure created in this way then serves as formwork and reinforcement. Thanks to the new development of a concrete mix, the concrete can be pumped into the reinforcement grids using standard construction methods without conventional formwork and can be surface-treated afterwards.

On the one hand, the MESH Technology can be used for customized concrete structures, for the production of complex forms for the building industry, and on the other hand, conventional concrete structures can also be structurally optimized and realized in a material-efficient manner.

**MESH AG**

**Contact**

[info@mesh.ch](mailto:info@mesh.ch)

[www.mesh.ch](http://www.mesh.ch)

## About MESH:

MESH AG develops robotic fabrication processes and produces products for greater efficiency, sustainability and design freedom for the construction industry.

MESH AG is a spin-off company of ETH Zurich and was founded in 2022.

[www.mesh.ch](http://www.mesh.ch)



**Photo 1**

Robotic automated production of reinforcement cages in Zurich.

(Photo: MESH AG)



**Photo 2**

Filling the reinforcement cages with a Sika unique concrete formulation.

(Photo: PERI SE)

**MESH AG**

**Contact**

[info@mesh.ch](mailto:info@mesh.ch)

[www.mesh.ch](http://www.mesh.ch)



#### **Photo 1**

Demonstrator object near PERI Headquarter in Weissenhorn, Germany. Shows the finished highly complex reinforced concrete structure produced with reinforcement cages without formwork.

(Photo: MESH AG)

#### **Video**

<https://www.youtube.com/watch?v=WTqUdAL7xL0>

**MESH AG**

#### **Contact**

[info@mesh.ch](mailto:info@mesh.ch)

[www.mesh.ch](http://www.mesh.ch)