

Research and development of modern magnet technology

Modern precast concrete plants produce both solid concrete walls and sandwich walls and place great emphasis on very high efficiency for the increasingly demanding production processes. In pursuing this goal, precast concrete plants rely on solutions that not only conserve resources, but can also be seamlessly integrated into the overall workflow. In order to meet these increasing requirements, B.T. innovation GmbH from Magdeburg is constantly further developing its own magnet and formwork technology.

Innovative product range - diverse solutions for every application

The innovative product range is broad and offers a solution for every application. As the degree of automation in precast concrete plants increases, so does the demand for robot-guided formwork systems. Depending on the customer's requirements, B.T. innovation offers precision-manufactured solid formwork with integrated holders for robot grippers.

The solid formwork can be ordered in individual lengths, heights and with specially shaped profiled sheets. With adhesive forces of up to 22,000 N per magnet, a firm stand on the formwork table is guaranteed. However, BT also offers efficient solutions for less automated precast concrete plants. Each solid formwork can also be equipped with the innovative MagButterfly magnet system for manual operation. The

system makes it easier to detach the formwork from the formwork table. Due to a specially developed guidance of the magnets, which in their arrangement resemble the wings of a butterfly, the force to deactivate the magnets can be significantly reduced.

Easy handling - flexible loosening and alignment

B.T. innovation also has various magnets to offer besides the MagButterfly. Another modern formwork magnet from B.T. innovation is the MagFly® AP. It is part of the BT formwork system and can be positioned and fixed quickly and easily. With its impressive adhesive force to mass ratio and the foot/spring system that allows the magnet to glide effortlessly over the formwork table, it is very helpful in realising time-saving and energy-saving work.

The magnet is activated as soon as firm pressure is applied to the top of the magnet. Then the force of the magnet adheres it to the formwork table.

The handling of the MagFly AP proves to be particularly simple: With the integrated lever, the magnet can be released and realigned easily and quickly.

In addition, the use of the MagFly AP does not require any additional tools or adapters. The housing of the MagFly AP is very light, making ergonomic work effortless.



Special solid formwork with integrated magnets and holder for robot gripper



MagFly AP

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Very good harmony with the BT formwork system

The BT formwork system offers a very good solution for precast concrete plants. The combination of MagFly AP and the precisely matched MultiForm formwork elements, such as the MultiForm Type 1, MultiForm Type 2, the MultiForm corner joint (MFE) and window and door recess, enables versatile application. Whether concrete wall, window or door recess, the MagFly AP and the BT formwork system harmonise very well and facilitate the production of various precast concrete elements. There is not even any need for sealing between the formwork table and the chamfer strip, as the MagFly AP presses the formwork system firmly onto the formwork table.



*MultiForm
formwork sys-
tem in combi-
nation with the
MagFly AP*

MagFly universal magnet - versatile applications

Another highlight in the BT magnet range is the MagFly universal magnet. With different adhesive forces, sizes and designs, it offers versatile application possibilities. Adapters and accessories can easily be mounted on the MagFly universal magnet, making it easy to implement individual applications.

Research for the future - efficient magnet technology

BT innovation has successfully taken on the challenge of continuously improving magnet technology for precast concrete element production. With the MagButterfly, MagFly AP and other innovative magnet systems, the company once again demonstrates its ability to coordinate effective technologies and thereby significantly accelerate the production of precast concrete elements. As a pioneer in magnet technology, BT innovation supports precast concrete plants in making their processes more efficient and resource-saving. Through constant research and development, B.T. innovation GmbH has become one of the leaders in magnet technology for the concrete industry and offers customised solutions that meet the individual needs of the industry. With a dedicated team of professionals and a strong focus on quality and customer satisfaction, B.T. innovation GmbH is shaping the precast concrete industry while helping to shape the sustainable future of the construction industry. ■

FURTHER INFORMATION



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