

# Individual special magnets for built-in components

The requirements for precast concrete elements have increased steadily in recent years. This is accompanied by an increased number of built-in components that the precast element manufacturers are to install in the elements. To do this, they often resort to individual solutions, thus risking quality and time efficiency, although this is not always necessary. B.T. innovation GmbH has set itself the task of identifying market gaps in the production of precast elements and offering corresponding special solutions.

Solutions made of wood, polystyrene or plastic are often used for the installation of built-in components. Adhesive solutions or mechanical means such as nails and screws are used for fastening. Even if these alternatives seem to be favourable at first sight, they lead to additional work and other problems. For example, firmly adhered built-in components can rarely be easily repositioned, should someone have measured incorrectly, and at the same time adhesives make cleaning more difficult. The result is hidden costs due to increased time expenditure. At the same time, there is a risk of quality defects due to incorrect dimensions of the special solutions or a shift of these during production.

However, many such problems can be eliminated with BT innovation's magnetic solutions.

## Simple installation of anchors and threaded sockets

With the magnet type GB it is possible without any problems to fasten waved anchors, threaded sockets or other fasteners



Magnet type GB used as armature mounting

with threaded attachments to horizontal or vertical surfaces during production. The magnet allows easy repositioning in case of measurement errors without adhesive residues or similar problems. Due to its conical housing, the GB can easily be detached from the cured concrete and can therefore be reused many times. The magnets are available with different holding forces and the thread size is always variable from M10 to M36 due to the exchangeable threaded pins. Floated, inclined or slipped anchors are now a thing of the past.

## Electrical sockets or pipe recesses fixed quickly and reliably

Electrical sockets and recesses for pipes can also easily be fixed with the GB magnet. For this purpose, a rubber attachment is simply screwed onto the magnet. This is interchangeable as required, so that it is possible to react flexibly to different electrical socket models or pipe diameters. After production, the magnet is simply removed while the built-in component remains in the element.

## Easy positioning and fixing of cast-in channels

The cast-in channel magnet is a magnetic attachment for easy insertion into a standard cast-in channel. After latching it is immediately usable and can easily be positioned on the formwork table. Since the use of adhesives is dispensed with, repositioning is possible at any time without any problems and without any adhesive residues. The magnet can easily be removed after deshuttering and is then reusable many times.



Magnet type GB with attachment for fixing recess pipes or electrical sockets

Cast-in channel magnet inserted in a cast-in channel



Ball head anchor fixed on the formwork table with magnet type KU

### Special magnet for the installation of ball head anchors

For holding ball head anchors during concreting, BT innovation offers a solution that combines recess bodies and magnet. In the magnet type KU, a steel body made of a high-quality solid material is turned and forms a homogeneous unit with a high-performance magnetic core. The holding surface is completely sealed and thus protects the magnetic core against corrosion and damage. This considerably extends the life of the magnet and the magnetic force remains high in the long term. Due to the integrated internal thread, the magnet can be released from the formwork table without force. By means of different retaining rubbers it is possible to connect different ball head anchors with the magnet.

### Further solutions at any time at the customer's request

BT innovation's product portfolio also includes many other special magnets for the fastening of built-in components during the production of precast concrete elements. In addition, there is a wide range of special magnets, which is constantly being expanded by special solutions for customers. ■

#### FURTHER INFORMATION



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