

BUTTERFLY BATTERY® MOULD - FOR THE HIGHLY EFFICIENT PRODUCTION OF PRECAST CONCRETE ELEMENTS IN **UP TO 4 MANUFACTURING CYCLES PER DAY** - ENABLES THE RAPID PRODUCTION OF AFFORDABLE HOUSES **IN LARGE NUMBERS AND HIGH QUALITY**.

PRECAST CONCRETE TECHNOLOGY FOR EMERGENCY BUILDINGS IN CRISIS TIME

Your Technology Provider for Affordable Housing

THE AWKWARD SITUATION OF REFUGEE CAMPS

reminds us the necessity of fast and economical provision of stable houses. The effect of stable, quickly available, safe living space is enormous. It provides relief for precarious living conditions, especially in disaster-stricken regions (earthquakes, tsunami, etc.), but also in refugee camps. It increases the quality of life and also reduces the risk of epidemics. Entire regions can be stabilized by solid, safe housing.



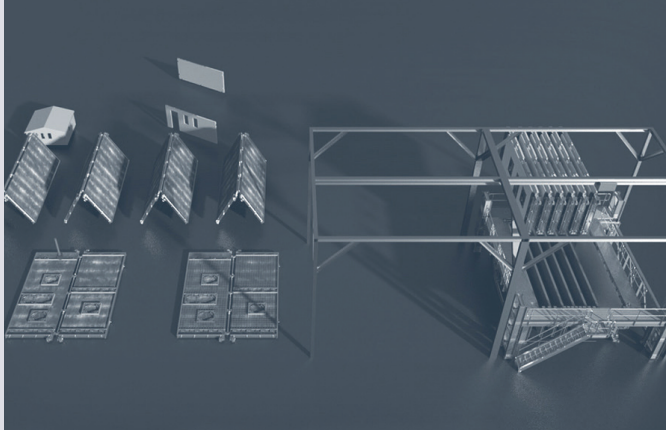
Syria, Atma Refugee Camp - January 2018

B.T. INNOVATION GMBH, AS AN INTERNATIONALLY

well-known technology provider, has developed the "Low Cost House" concept together with the associated production technology Butterfly Battery® mould. At the centre of the concept is a Battery Formwork® for the production of precast concrete elements. The aim is to quickly create durable and valuable living space, but also workplaces, hospitals, schools and much more.



Design of "Low Cost House" Project



Production of Precast Elements

Production

IN EMERGENCY SITUATIONS, IT IS IMPORTANT to use the production capacity at its maximum level. BT innovation provides the most efficient technology for prefabrication of panel-shaped concrete elements, Butterfly Battery® mould. Low area requirements, compact design, and possibility to cast up to four times a day, are among the most important advantages of this system. By correctly breaking down the structural elements into suitable dimensions, all necessary parts of a building can be produced in Butterfly Battery® moulds.

Our goal is to transfer the technology and production know-how in order to enable the people in target countries to build their own houses using local material and human resources. In this way, the highest level of value creation and job opportunities are provided inside the respective country.

This Butterfly Battery® mould has a daily capacity of approx. 115 sqm precast elements. This volume can be increased up to over 600 sqm in a time period of almost 4 weeks. For individual designs, any necessary mould capacity and dimension can be designed and manufactured.

*BT innovation distributes the Butterfly Formwork® and Butterfly Battery® for stationary applications on the basis of an exclusive licence from Umdasch Group NewCon.

Butterfly Battery® Mould

- ✓ Ready to be shipped and assembled
- ✓ Compact efficient production
- ✓ Outdoor or indoor setup
- ✓ Flexible in design
- ✓ Upgradable to over 600 m² precast parts per day



WATCH THE VIDEO

about production process with
Butterfly Battery® mould*

www.videolyser.de/video/20602812/800/450

Fast Assembly and Disassembly

OUR CONCEPT ALLOWS THE ASSEMBLY OF A massive concrete house within 2 hours only. Thanks to our patented connection system BT-Spannschloss® (turnbuckle) temporarily installed structures can be assembled and also disassembled in a short time.



WATCH THE VIDEO

about the 2-hour assembly
of the Low Cost House
www.videolyser.de/video/10009936/800/450



Production of Pre-Stressed Concrete Elements

OUR SUBSIDIARY MAX-TRUDER GMBH OFFERS individual solutions for the efficient production of pre-stressed hollow core slabs, foundation piles, lintels, T- and I-beams. Each of these solutions is developed and controlled by the engineers, who have extensive experience in planning complex project plants according to the customer's needs. This guarantees the high quality of the pre-stressed elements for decades.

To meet emerging market requirements, MAX-truder designed a mobile precast concrete field factory for the production of a large range of pre-stressed and reinforced concrete products:

- Hollow core slabs – floor and roof applications
- Foundation piles
- Floor, roof beams, lintels, fence posts
- Channels and rib slabs
- Columns, beams and stairs
- Hollow core wall elements

MAX-truder pre-stressed slabs and wall panels



www.videolyser.de/video/21402662/800/450



MAX-TRUDER PRECAST TECHNOLOGY - STRONGEST HOLLOW CORE SLABS AND WALLS ELEMENTS

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International Presence

AS A 30-YEAR-OLD SUPPLIER IN INTERNATIONAL

market of precast industry, BT innovation has a wide network of partners and clients in more than 100 countries. In the past years, we worked with valuable partners for whom affordable housing belongs to their goals. It is important to note that the same technology and equipment can be deployed for production of normal housing projects or other public buildings, in the future.

Consulting Service

BT INNOVATION HAS A WIDE RANGE OF TAILORED

solutions for precast housing projects:

- We analyse your processes and work procedures in administration and production.
- We have the know-how to plan new production plants and optimise existing ones.
- We are your contacts in all phases of the planning, implementation and commissioning of complete precast plants.



WATCH THE VIDEO

We introduce our "Low Cost House" concept and our vision
www.videolyser.de/video/21337197/800/450



GET IN CONTACT
WITH US!

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