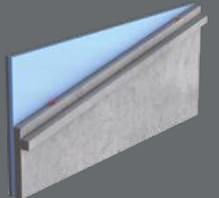
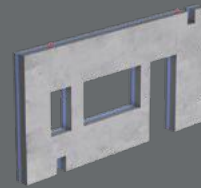
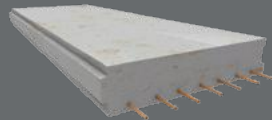
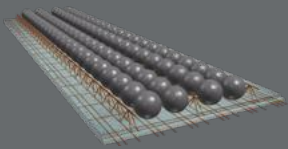




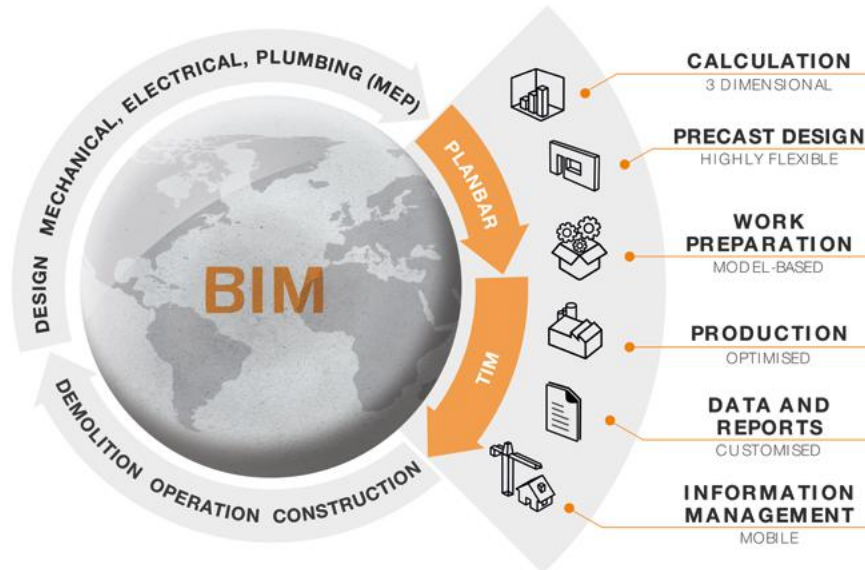
## PLANBAR

High-quality and efficient precast concrete design



## OPEN BIM -

Integrated Planning with PLANBAR and TIM



### BIM Precast partner network

#### Modeling tools



#### Key elements



#### Manufacturing execution system (MES)



We work together with all leading suppliers in the precast industry. Get more information about our partner-network: [www.precast-software.com/en/partner/](http://www.precast-software.com/en/partner/)

**As a globally active solution provider for the precast parts industry, we support you from the first cost estimate, through the planning stages, right up to production and assembly.**

We offer automation and the highest efficiency with serial production and provide flexible, high-performance functions for planning and producing demanding and complex precast parts.

#### Our service portfolio:

- **SalesManager:** Our solution for model-based quantity and mass calculation based on PLANBAR - all without CAD knowledge.
- **PLANBAR:** Our precast design tool, which helps you optimise precast parts planning at any complexity.
- **TIM:** Our technical information manager, which sustainably optimises your processes as an information and integration platform.
- **mTIM:** Mobile TIM provides the ideal information platform.

**Wherever interfaces and different file formats dominate today, we want to accelerate the idea of Open BIM through open data exchange with other modelling tools. This is why we concentrate on interoperability and continuously optimise our interaction with other systems.**

Extensive interfaces for the import and export of drawings and data in all conventional file formats (IFC, DWG, 3D-PDF, CAM, PXML, 3ds, u3d, png, etc.) are based on the BIM method.

The transition to an Open BIM, with potentially cross-sectoral uniform specifications for data maintenance and exchange poses a medium-term challenge for the entire precast concrete industry. As a leading member of the **IFC4precast** working group (Expert panel of BuildingSMART) we take responsibility to move the entire process forward.

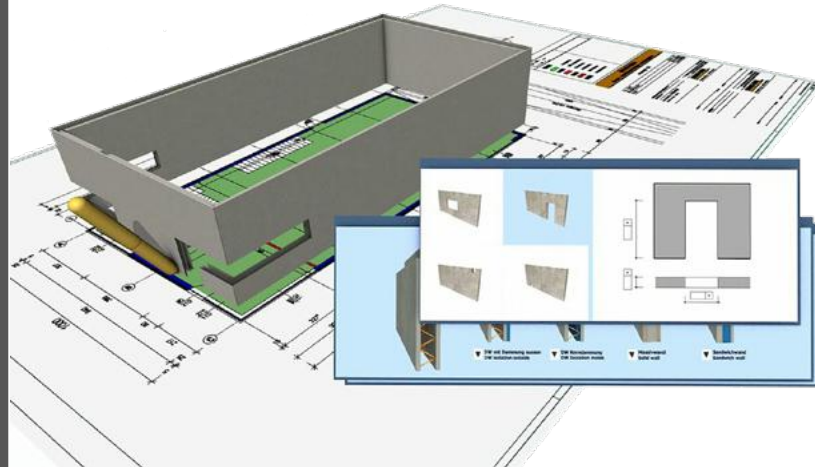
Choosing the best partners and tools allows us to embark upon this path with maximum preparedness.

#### PLANBAR Features

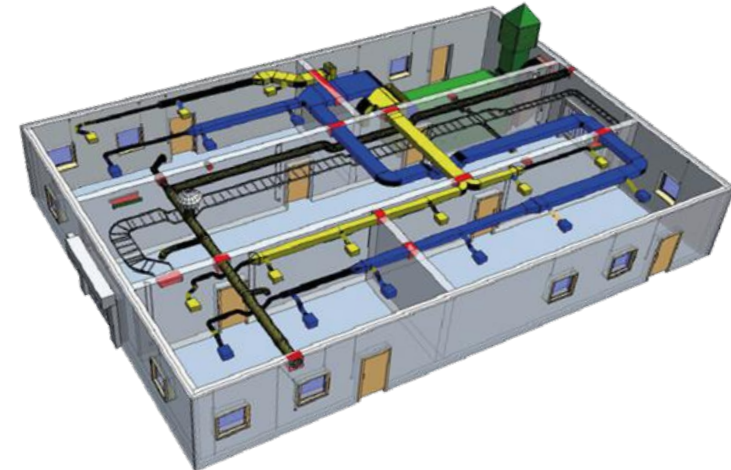
- Model and drawing-oriented work
- Ideal synthesis of 2D and 3D
- Optimised reinforcement that is ready for production
- Production documents at the push of a button
- Reliable data for production and invoicing
- Continuous data transfer
- Complex components are simply and easily designed with structural precast parts
- Openness to other systems through IFC import and IFC export



# THINK IN NEW DIMENSIONS



The Sales Manager is the ideal tool for sales, taking you quickly from the offer to the order, including 3D visualization of the object.



The MEP-Assistant supports you in the drawing of technical facility equipment.

Currently, precast parts factories often need to submit their offers based on rudimentary layout plans or very basic models from the building contractors. In practice, this often leads to inaccuracies when creating proposals and uncertainties in customer communications.

Faster than any existing tool, Sales Manager automatically, quickly and simply uses the building model to determine volumes, creates lists and graphical reports and then transfers the data to a calculation programme.

**“With Sales Manager, I can clearly determine the necessary volumes across all workstations and implement any modifications quickly and easily. The 3D model of precast parts provides vital help in the sales process.”**

Dirk Spielbrink, Head of Sales, Lütkenhaus GmbH (Germany)

Sales Manager allows you to quickly and securely complete impressive offers. It also offers complete and appealing visualisations, which can then be sent to the customers as a 3D .pdf, for example.

It is so intuitive to use that even sales staff without prior CAD skills can immediately create 3D models. We believe in being open to other systems. This is why we are focusing on how to import and export data even more easily.

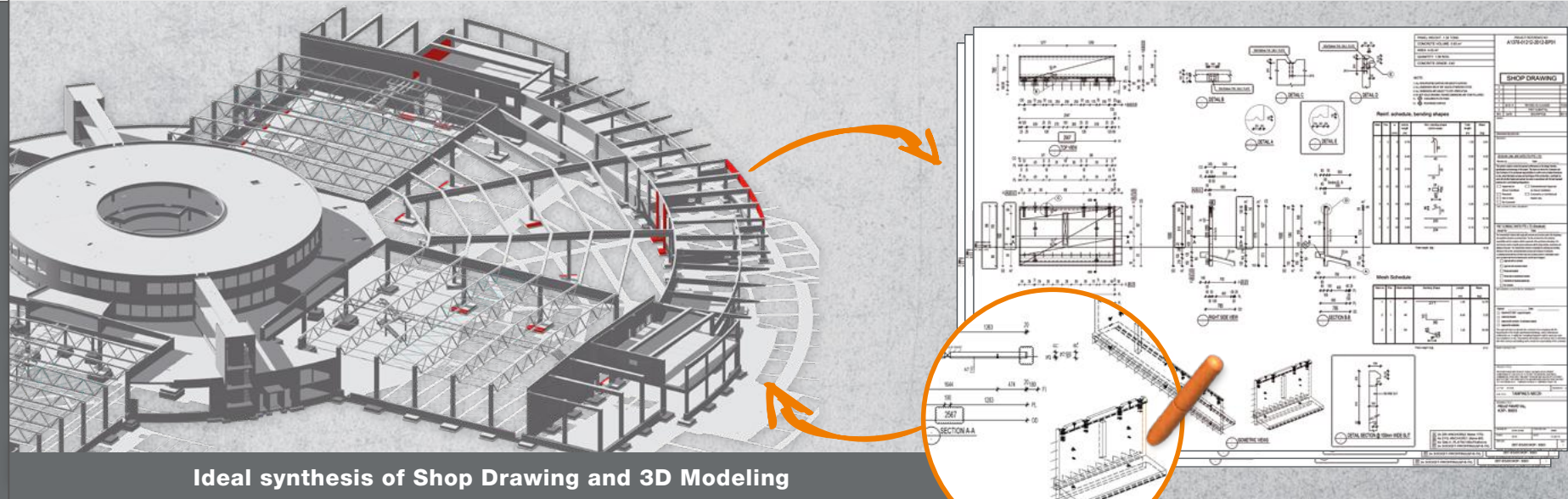
We stand for openness to other systems and are taking a leading role with our BIM modules for importing and exporting data across the industry.

The IFC-Assistant enables the import of data from architecture, structural design and MEP (mechanical, electrical and plumbing).

With the help of the MEP-Assistant you can quickly add and edit fixtures and openings. Later changes can be done directly in PLANBAR.

**As a result of the precast parts design, you receive a holistic precast model including all building information, which in turn can be conveniently exported as an IFC file.**

THINK COMPLETE. Care for detail.



Ideal synthesis of Shop Drawing and 3D Modeling

PLANBAR offers an ideal and unique synthesis of model- and drawing-based work. The **Elementplan** module solves the problem of automatically creating production documents from a model with geometry and reinforcement.

This lets you work on the Shop Drawing and automatically adjusts the 3D model in the background, where PLANBAR automatically ensures that the model and drawing remain consistent.

Production documents will always be important. This is why we continue to focus on perfect, mostly automatic document preparation.

**At the same time, we leverage the added value of three-dimensional models:**

- A permanent overview of the entire object with constant availability of all details,
  - continuous consideration to change and
  - simple, visual control options
- are just a few of the advantages of designing in 3D.

The 3D model also facilitates data collection according to volume, cost and time criteria. This information is required during the work process and to integrate corporate or resource planning.

Our Basis Allplan with the newly integrated Parasolid® Software from Siemens PLM Software offers you even more freedom during 3D modelling, especially when creating volume and surface models. The new 3D core also increases precision and performance during the modelling process.

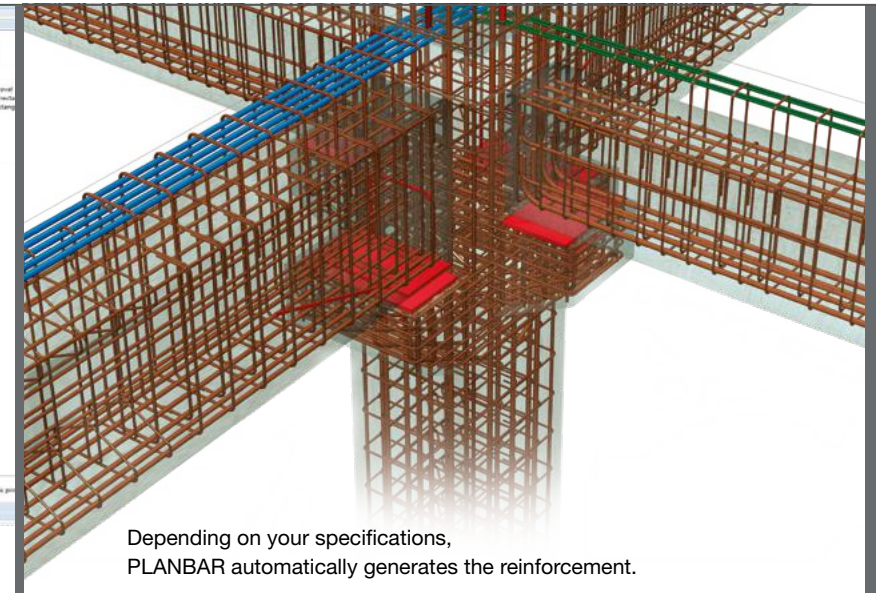
**Shop Drawings at the push of a button**

- Automatic creation of production documents
- Modification and amend to production documents, as required
- Model and drawing are always consistent
- Changes to the model are directly transferred to the production documents
- Layouts can be individually created, depending on customer and element type
- Header and stamp are always up to date
- Multi-page Shop Drawings serve to display your specific content
- Significant increase in production efficiency and quality

**T H I N K   C O M P L E T E .** Care for detail.



Layouts can be individually created, depending on customer and element type.



Depending on your specifications, PLANBAR automatically generates the reinforcement.

The design of reinforcement is a true highlight in PLANBAR and will optimally support you during the design and production processes of all types of precast parts.

**In this regard, PLANBAR automatically creates reinforcement in accordance with your specifications.**

Round steel, reinforcing mesh, mesh stirrup and cages are available in catalogues and can be quickly tailored to specific characteristics.

Policies such as hook length, bending roll diameters and anchorage lengths can be easily adapted to country-specific requirements. The reinforcement automatically interacts with fixtures and production restrictions.

Required production data can then be automatically transferred to the system or the master computer. Thanks to practically proven data interfaces, PLANBAR ensures smooth production from the very first day.

PLANBAR also impresses with maximum precision and flexibility in reinforcement production. In PLANBAR, you can design any type of reinforcement with simple or complex bending forms.

During the design phase, you can already verify whether the reinforcement can actually be produced. This significantly increases productivity and the production speed of your manufacturing process.

The required production data are then automatically transferred to the system or master computer, where PLANBAR supports all conventional data formats.

PLANBAR's continuous process chain ensures that data only have to be entered once. With its higher efficiency, PLANBAR therefore supports you in smooth production.

- Reinforcement made easy**
- creates drawings automatically with labels and dimensions
  - provides reinforcement printouts
  - provides cutting and bending lists
  - complies with your individual reinforcement specifications
  - easy country-specific adjustment
  - extremely easy implementation of modifications and supplements



# T H I N K F U T U R E

**„As for the future,  
your task is not to foresee it but to enable it.”**

Antoine de Saint-Exupéry, French author and aviator (1900 – 1944)

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We are always working on further development of our products.  
Technical changes, including to the products described in this  
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