THINK IN NEW DIMENSIONS
Software & Service for Industrialised Construction
The precast concrete parts industry is experiencing solid growth worldwide. High product quality, efficient cost and value management from the start of the project through to project completion, as well as non-reliance on the weather conditions are just three of the many advantages compared to traditional construction methods.

At the same time, construction projects are becoming increasingly complex as the pressure of costs and deadlines grows, and this goes hand in hand with the rising demands placed on components and building materials. To achieve sustainable success in the industry, it is vital to have a process chain in which all steps are seamlessly coordinated with each other — from planning in the office to production in the plant and ultimately installation on the construction site.

It is therefore essential to use industry-specific, BIM-capable construction software that supplies the process with the necessary data.

With its complete portfolio, the Nemetschek Group has created a symbiosis of a consistent BIM tool and specialist software for construction processes that is unique in the AEC market.

With a special focus on the needs of the concrete precast parts industry and many years of successful use among corporate groups and medium-sized companies, PLANBAR and TIM facilitate high-quality, industrialised precast part planning. 3D planning and data consistency have always been at the forefront of the applications.

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**OPEN BIM - Integrated planning**

**BIM Precast partner network**

Modeling tools

- planbar
- ALLPLAN
- Trimble Tekla
- VECTORWORKS
- REVIT
- ARCHICAD

Key elements

Manufacturing execution system (MES)

- planbar
- TIM

**The aim of integrated planning is to ensure the consistency of data and information throughout the entire process — from the design, to the plant and through to installation. That is why we work together with numerous partners in the concrete precast parts industry. You can find out more about our network of partners at:**

Precast Software Engineering GmbH, a wholly owned subsidiary of the Nemetschek Group, develops and markets software for the concrete precast parts industry.

We draw on over 30 years of experience to offer our customers all over the world solutions that help them successfully handle all tasks relating to precast parts planning.

Creative. Customer-oriented. Competent. These three words that describe our identity. They compel us to take responsibility. They motivate us to achieve the exceptional. They encourage us to treat each other and our customers with respect.

Our team is currently made up of 50 highly qualified specialists who speak our customers' language.

The key to success
Our solutions offer automation and the utmost efficiency for all types of precast parts.

Visual work methods based on the three-dimensional model and an automated data flow make work easier for users, reduce the rate of errors and thereby improve efficiency in the company.

Choosing our products means that you can be sure of purchasing an absolutely top-of-the-line product that is continually being updated and developed.

You can also rely on our high-performance software and our first-rate, flexible and customer-oriented service.

The Sales Manager is the ideal tool for sales, taking you quickly from the offer to the order, including 3D visualization of the object.
PLANBAR offers users the choice between a drawing-based and model-based working method thanks to the combined 2D/3D principle and brings both worlds together in one 3D model with the unique Elementplan module.

The precast part model forms the basis for planning highly complex components and generating data for the streamlined, state-of-the-art plant engineering that is common nowadays. The transfer of accurate and error-free data in a data format that can be read by the relevant plant or commercial system is essential for smooth operation that saves both time and costs.

- **Ideal synthesis of model-based and drawing-based work**
  PLANBAR combines the benefits of the three-dimensional model with excellent preparation of drawings.
- **Ceiling — wall — façade**
  PLANBAR offers special applications for the industrialised design of flat precast parts.
- **Structural precast parts**
  Thanks to the iParts module, any complex components can be designed quickly and easily.
- **Production-ready optimised reinforcement**
  From the design to the reinforcing mesh welding system: PLANBAR ensures a seamless interplay between structural analysis, CAD and robots.
- **Drawings at the push of a button**
  The Elementplan module provides automated generation of the production documents from the model (with geometry, reinforcement, assembly parts and much more).
- Changes to the 2D drawing are automatically adapted on the 3D model and vice versa.
- **Data for production**
  With its tried-and-tested data interfaces, PLANBAR ensures smooth production in the plant from the very first day (master computer, stand-alone machines, through to fully automated carousel systems).
- **Data for invoicing**
  For commercial invoicing, all relevant information is provided at an item level and transferred directly to the ERP system.
- **Optimal connectivity with TIM**
  The CAD results can be transferred to the Technical Information Manager (TIM) without any losses.
- **Multilingual**
  PLANBAR is available in more than 15 languages, including Russian and Mandarin.
- **BIM in the precast part plant**
  A wide range of interfaces are available for importing and exporting drawings and data (DXF, DWG, PDF, IFC, UNI, PXML etc.).
The art of planning is pre-empting difficulties in execution. The Technical Information Manager (TIM) was developed to achieve this objective.

With TIM, the detailed results of planning in CAD can be optimally used by other departments in the company. TIM provides information about projects and elements, using the three-dimensional model as a basis.

The visualisation facilitates faster and easier processes and in conjunction with automated data communication—improves the efficiency of the workflow.

The innovative new developments of the software guarantee that it addresses the requirements of the market with regard to optimum productivity and cost-effectiveness.

As an integration platform, TIM combines various IT systems and thereby ensures the smooth and quick exchange of data, including across multiple sites or company boundaries.

This means that TIM fits into the openBIM process seamlessly.

Mobile TIM (mTIM) provides the ideal information platform for project management, sales and site management, whether on-site or on the move. This enables all data to be accessed for specific customers and the construction progress to be compared in real time.

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<thead>
<tr>
<th>TIM features:</th>
<th>mTIM - your mobile companion</th>
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<tbody>
<tr>
<td>• <strong>Visualisation</strong> of projects, elements and processes</td>
<td>A complete overview: With mTIM, all relevant data can be accessed at any time, wherever you are, and further information can be recorded.</td>
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<td>• <strong>Delivery manager</strong> Graphical delivery planning</td>
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<td>• <strong>Virtual planning of the assembly sequence</strong></td>
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<tr>
<td>• <strong>Provision of data</strong> for production and ERP systems</td>
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<tr>
<td>• <strong>Report manager</strong> Drawings, lists and reports</td>
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<td>• <strong>Process monitoring</strong> using status management</td>
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<td>• <strong>Electronic assembly report</strong> with mTIM</td>
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<td>• <strong>BIM functionality</strong> Export of the complete building model including all precast parts and the reinforcement in IFC data format</td>
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<td><strong>TIM is:</strong></td>
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<tr>
<td>• Efficient to use: all information at a glance</td>
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<td>• Intuitive to learn</td>
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<td>• A link between departments and their specific applications (CAD, CAM, ERP, BIM)</td>
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"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)