bocad
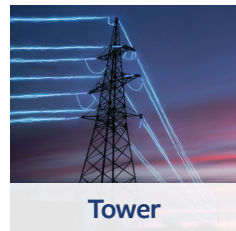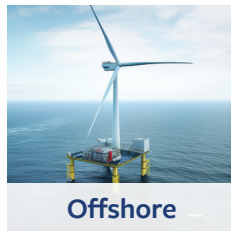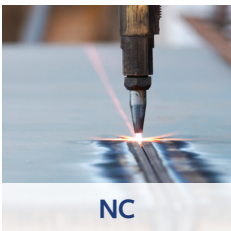
simply the best for detailing

The complete solution for the building industry

CAD/CAM for structural engineering

Steel

Roof and Wall

Timber

NC

Offshore

Tower

bocad - Part of a family-led company

If you're looking for exceptional service and performance...

bocad has been shaping and transforming structural engineering for 40 years. Through attention to detail and accuracy, bocad has enabled new capabilities in the construction industry.

Innovation and practicality is bocad's DNA. We want to help improve efficiency, accuracy, sustainability and cradle to cradle approach for the construction industry.
Therefore we are using new technologies and methods such as BIM. In addition, we rely on partnerships, because our industry thrives on cooperation.

"bocad - simply the best for detailing" is our promise and our focus, every single day.

Yours
Helmut Schuller

Helmut Schuller
Owner & CEO
SCHULLER&Company

Top quality

First-class support

Cutting-edge user interface

Industry memberships

LEICHT**BAUEN.IFBS**

DSTV
Deutscher Stahlbau-Verband

POLSKA IZBA KONSTRUKCJI STALOWYCH

info steel

All disciplines for a comprehensive BIM workflow

bocad has been setting standards in structural engineering since 1983

bocad has been shaping and transforming structural engineering for 40 years and has set standards in steel construction. From the very beginning, bocad has been known for going its own way and continuously improving to meet the highest demands from customers - the program has proven itself time and time again in the field. In 2022, the digitalization specialist SCHULLER&Company took over the bocad software unit with a focus on BIM capability and customer service.

bocad enables collaboration and a complete BIM workflow for sustainable projects in the industrial, energy, mining, oil and gas, infrastructure, commercial, architectural and residential sectors. bocad is a multi-material detailing software which can handle steel, glass, timber, prefabricated house construction, cladding, concrete and sheet metal in a single system. The software includes a wide range of standards and libraries that enable quick and easy 3D modeling for any type of structure.

The bocad team consists of experienced civil engineers who specialize in steel, metal, concrete and timber construction. This ensures that we can meet any requirement.

bocad is used by trade metal fabricators, medium-sized to major industrial companies, from metalworking shops to the largest engineering companies worldwide. The strength of bocad becomes especially apparent when a structure is made of many different and unique components.

Prominent buildings are Burj al Arab in Dubai, the Ferrari World Arena in Abu Dhabi, the Guggenheim Museum in Bilbao, the Commerzbank Tower in Frankfurt, the Louis Vuitton Foundation in Paris, Canary Wharf Station in London, the Oculus Transportation Hub in New York, the new Sydney Fish Market, and Roots in Hamburg's HafenCity district, Germany's tallest timber high-rise built according to the cradle-to-cradle principle.

bocad **Steel**

bocad **Roof and Wall**

bocad **Timber**

bocad **NC**

bocad **Offshore**

bocad **Tower**

bocad – simply the best for detailing

In-depth detail, consistent data flow, collaboration, support & service

Detailing is one of the strengths - bocad is recognized worldwide as the reference for 3D detailing. The unique feature of having model and drawings in the same environment improves time and accuracy. Furthermore, bocad ensures consistent data, smooth processes across all stages of the project and error-free production.

In the complex world of construction IT, bocad models can be integrated and synchronized with other systems in digital models. bocad's high quality can be seen in its capacity to adapt to technological developments and interoperability.

Our customers appreciate the availability of the support team, as this means that problems are solved quickly and effectively. Customer-specific customizations are made in direct contact with the development engineers.

40 years
of software innovation

**3 continents
11 countries**

SCHULLER&Company offices
in Germany, Poland, Belgium,
Malaysia
Plus international sales partners in
the Netherlands, France, Australia,
India, China, Indonesia and
Vietnam.

500,000+
projects throughout the world,
from the North Pole to the
South Pole

bocad **Steel**

bocad Steel offers a comprehensive solution for precise modeling and production of a wide range of steel structures. The range of capabilities extends from general steel structures, stairs and handrails to bridges and sheet metal.

bocad Steel can handle projects of any size and complexity.

Polar Research Station, AWI – Alfred Wegener Institute

Castielerviaduct, Rhaetian Railway

Segments

- Engineering firms for steel constructions
- Construction firms for steel construction
- Steel fabricators with and without NC production
- Plant manufacturers

Some of our customers

- WURST Stahlbau, Germany
- Schneider Stahlbau, Switzerland
- Baudin Chateauneuf, France
- KATTNER Stahlbau, Germany
- Trasko-Stal, Poland

Innovation SPIN

The modern user interface enables a streamlined workflow that makes it easy for users to design and model projects quickly and accurately. All deliverables, including drawings, bills of materials and NC data required for fabrication and construction, always accurately reflect the model, ensuring maximum reliability.

Through powerful data exchange, bocad enables the creation of a digital twin, which is required for BIM projects.

"Steel construction expertise is implemented in the software at a very high level"

WURST Stahlbau

bocad **NC**

bocad NC allows precise creation and modification of NC data for machines used in steel manufacturing. This is especially important for production plants where precise NC data is required in order to guarantee high-quality manufacturing. The software also supports the optimization of manufacturing processes to make them more efficient.

bocad Roof and Wall

bocad Roof and Wall is the BIM solution for the cladding of building facades and -roofs and aluminum constructions. It offers an extensive selection of catalogs from suppliers of panels, cassettes and aluminum profiles, which can be extended as required.

Thunderbike, Harley-Davidson

Assembly hall, GUK-Falzmaschinen

Segments

- Engineering firms/ construction firms
- Steel and glass/metal workers
- Complete industrial hall builders
- Metal workers

Some of our customers

- Haller Industriebau, Germany
- Sediabena Builders, Malaysia
- Schwevers Stahlhochbau, Germany
- Rudolstädter Systembau GmbH, Germany
- Industrie- und Gewerbebau Könning GmbH, Germany

Energy station, Entega

Automatic marking and creation of drawings and bills of materials, such as erection and palletization drawings, glass cutting lists and part lists, are just some of the features of bocad Roof and Wall.

bocad Roof and Wall can be used as a stand-alone solution or as an add-on.

bocad **Timber**

bocad Timber can be used for all constructions in prefabricated or timber housing.

It offers a wide range of tools for the precise design of complex straight or curved glulam beams.

Whether for residential, commercial or industrial buildings, we support you with structured design of walls, roofs, and ceilings as a frame construction or using cross-laminated timber.

Canary Wharf, London

Anoha, Berlin

Segments

- Carpentry firms, timber construction companies, and timber-framing centers
- Glulam construction and timber engineering firms
- Prefabricated and timber house producers
- Manufacturers of ceiling and roof elements
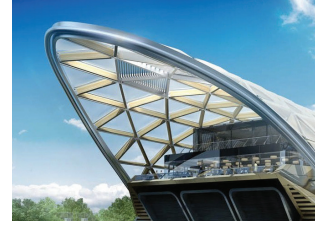
Some of our customers

- kw-Holz Ingenieur-gesellschaft mbH, Germany
- Walter Kastor GmbH & Co. KG, Germany
- Rubner, Italy
- WIEHAG Timber Construction, Austria
- Ziegler Holzbau GmbH, Germany

TUM Campus at Olympiapark Munich

Interfaces with CNC machines and modules for industrial and glass façade planning can be added to the package if required.

> "There are not many programs, that cover the areas of timber engineering, modular construction, steel and glass construction, prefabricated housing construction, etc. to the same degree. This is one of bocad's strengths."
>
> **Rubner**

Image credits:

Anoha: Hufton & Crow
TUM Campus: David Matthiessen

bocad **Tower**

bocad Tower includes an extensive library of industry specific rule-based tools for modeling lattice or tubular transmission and telecommunication towers, substations, gantries and monopoles.

It has unique capabilities for efficient 3D modeling of complicated structures such as cross arms, hip bracings and K-frames and excels at creating accurate

Segments

- Telecom and transmission fabricators
- Telecom and transmission engineering firms
- Power transmission and telecommunication networks operators
- Utility companies

Some of our customers

- LOCWELD INC., Canada
- AECOM, Canada
- KEC International, India

Monopole, Canada

deliverables according to manufacturing requirements in a short time. You can avoid rework, optimize the amount of raw material and speed up production.

bocad Tower improves the detailing of towers, reducing the weight of towers, nesting all project material, reducing costs, eliminating rework and speeding up mass production.

bocad Tower is regarded throughout the world as the reference for 3D detailing of towers.

bocad **Offshore**

bocad Offshore offers a range of specific tools for the sustainable conceptual and detailed design, fabrication and construction of structural steelwork in offshore and marine projects.

It has the unique ability to create 3D models directly in the general arrangement or detail drawings, which can save a considerable amount of time especially when handling revisions and ensures the drawings are always up-to-date.

Segments

- Offshore and marine engineering consultants and fabricators

Some of our customers

- Smulders, Belgiun
- MMC Oil & Gas Engineering, Malaysia
- Sapura Engineering, Malaysia
- Offshore Oil Engineering, China

Jacket

bocad Offshore includes material, weight, center of gravity and buoyancy reports, cutting lists, automatic weld marking and tracking, pipe unfolding and 3D pipe profiling.

S&C bocad contains specific libraries for onshore and offshore structures.

bocademy
PROFESSIONAL TRAINING

Universities and colleges

Cooperation with technical colleges and universities in Germany, France, Luxembourg, Poland with certificate of completion

Training the next generation in higher education institutions is an investment in the future that's very important to us.

We have set up collaborations with universities so that, already during their studies, students can be exposed to practical aspects and frequently occurring tasks that come up in day-to-day life in the construction industry. This allows us to reach the broadest spectrum possible of young engineers. We have developed a special program for trainees in companies and we offer licenses for them at special rates.

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> *"In the name of the staff of the Faculty of Civil Engineering, Mechanics and Petrochemistry of the Warsaw University of Technology, Plock branch, we would like to thank you for the professional and highly substantial preparation and execution of the training on the spatial design of bocad steel constructions."*
>
> Dr. Ing. Piotr Wilinski & Dr.-Ing. Artur Koper

Training on site and online

Software skills help you attain perfection and safeguard the future

When it comes to building structures and optimizing the efficiency, precision, quality, and safety of construction projects, software competence is key. That's why we founded the bocademy to support technical experts with their challenging tasks. We provide training and bocad certification for professionals and career starters, so they can tap into bocad's full potential and meet the requirements set by complex, technology-oriented working environments. Our training program draws on our many years of experience. We offer group training and refresher seminars, plus individual training targeted to company requirements, all on site or online.

e-learning certification course:

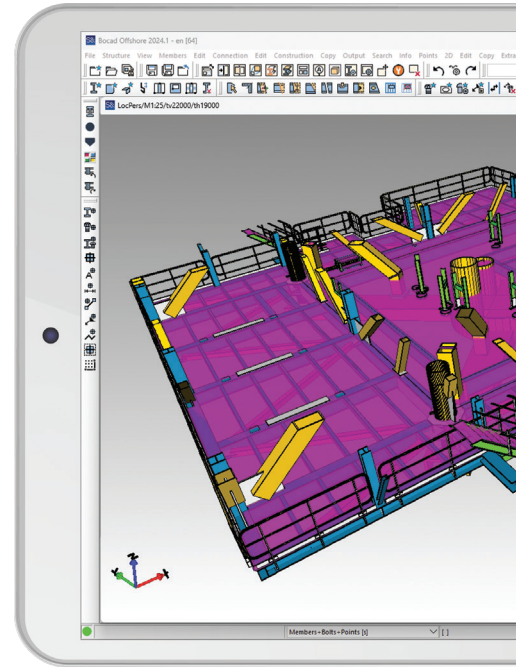**NEW** Video classes, live Q&A sessions, exercises with training videos, interim tests, final exam

bocademy.com

Current version: bocad 2024

SmartInfo, point clouds, reference models, BIM, cloud licenses

bocad is 100% user- and result-oriented. Direct exchange between users and developers allows the software to focus on meeting growing requirements from the sector. Updates with enhancements and corrections are released several times a year. Under SCHULLER&Company, the bocad team has implemented 155 enhancements and delivered 9 bocad releases in 19 months.

The new version, bocad 2024, includes significant improvements to the user interface, BIM capability, collaboration, quality assurance, and flexible working. All new functions improve usability and working speed, as well as the exchange of data between people involved in the project.
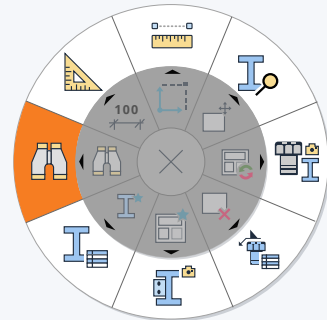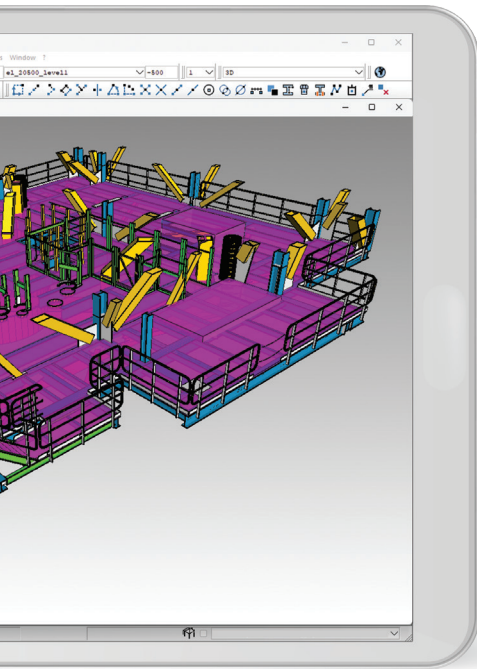
High speed SmartInfo

The new SmartInfo tool now enables the "fastest database query in the world" for model checking: direct display of part, fastener and weld information when hovering over the element.
The element is also highlighted in color in all views and drawings.

SmartSelect

Intuitive, convenient and faster: SmartSelect is a contextual menu which allows each user to choose the functions that best suit their personal way of working.

Features

Cloud licenses for flexible working

bocad is now accessible via the cloud without a VPN. This means a license can be used flexibly from different devices at work, in the home office or on the go from a tablet. Cooperation with project partners is also made easier. Finally, the application can also be operated with the touch of a finger on the large screen of a smartboard.

Point cloud for clash detection

Point clouds and reference models can be loaded in various formats to visually check for collisions. The 3D model is displayed in the OpenGL window without the need for loading time.

BIM features

Collaboration is facilitated through faster data exchange and data synchronization with the IFC interface, IFC4. For BIM managers, the trade-specific XML translation tables and user-defined user attributes simplify project coordination with the in-house team and architects.

International teams – automatic translation

The dialog boxes are now translated "on the fly" with shorter setup times. Users can set their preferred language and all dialogs are automatically translated immediately. This makes communication in international teams much easier.
Nine languages are currently available. These include German, Chinese, English, French and Polish.

OpenGL as a construction window

Picking elements and coordinates turns OpenGL into a construction window.
Points and coordinates can be picked as required, for example to measure distances. Grid points provide orientation when placing components.

a product by

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