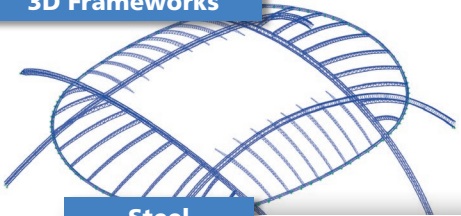


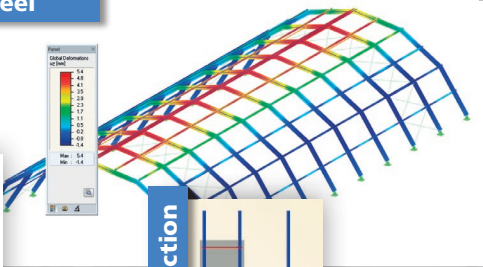
RSTAB 8

Spatial Framework Program for Civil Engineering...

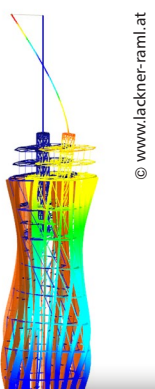
3D Frameworks



Steel

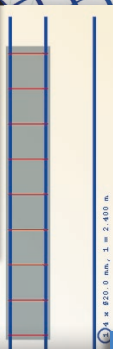


Stability and Dynamics



© www.lackner-raml.at

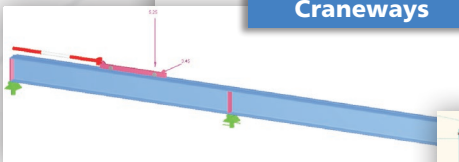
Solid Construction



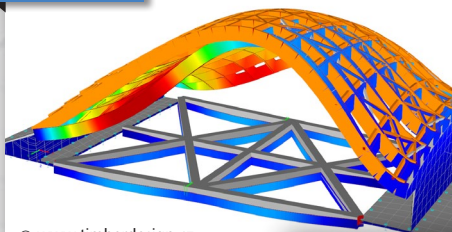
Bridges



Craneways

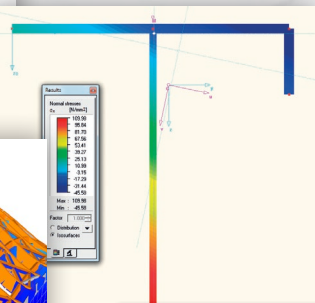


Timber

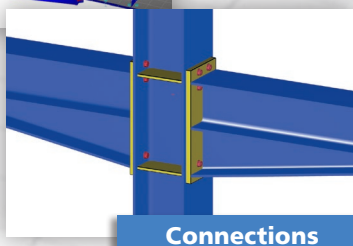


© www.timberdesign.cz

Cross-sections



Connections



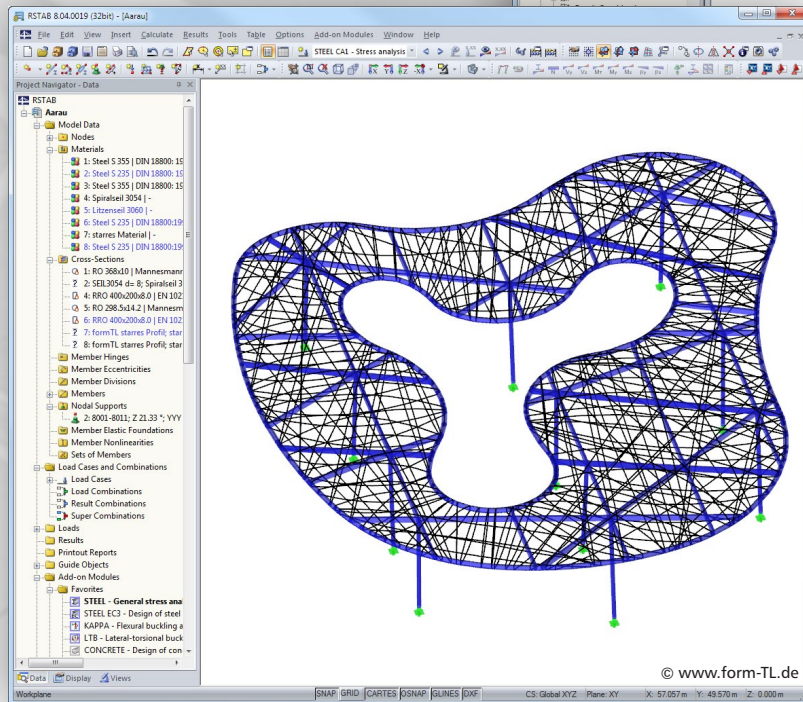
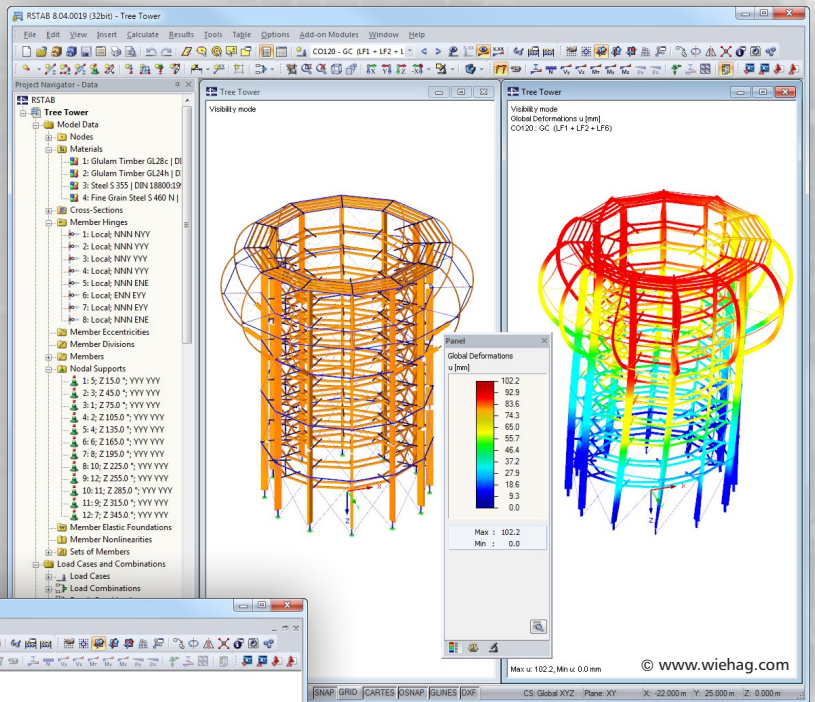
RSTAB 8 – Flexibility, Intuitive Handling and Powerful Performance for Professional Calculations

The 3D framework program RSTAB is used to define structures, materials and loads for the calculation of planar and spatial frameworks. Due to its CAD-like graphical user interface, RSTAB is an easy-to-use program. Many useful tools are already integrated such as the automatic structure generation, the generation of imperfections as well as wind and snow loads according to Eurocode, the parameterized modeling, and the automatic creation of action, load and result combinations. RSTAB provides deformations, internal and support forces. With the add-on modules you perform further analyses and designs. The modular approach allows you to combine all programs individually according to your needs. Upgrades at a later time are always possible. RSTAB offering numerous interfaces represents the perfect tool for a smooth interaction between CAD and structural analysis in Building Information Modeling (BIM).

RSTAB – analysis for steel, reinforced concrete, timber, aluminum, composite construction, plant and mechanical engineering, dynamics, design according to Eurocodes / International Standards

RSTAB - the powerful 3D framework program

- For highest demands in modern civil engineering
- Individual program packages due to modular software structure
- Calculation of supporting structures consisting of steel, concrete, timber, aluminum and mixed systems
- Structural and dynamic analysis
- Integration of various international codes and standards
- High-quality visualization of structure and loading
- Fire protection design according to Eurocode for steel, concrete and timber
- Continuous maintenance and program development
- Quick and qualified hotline support

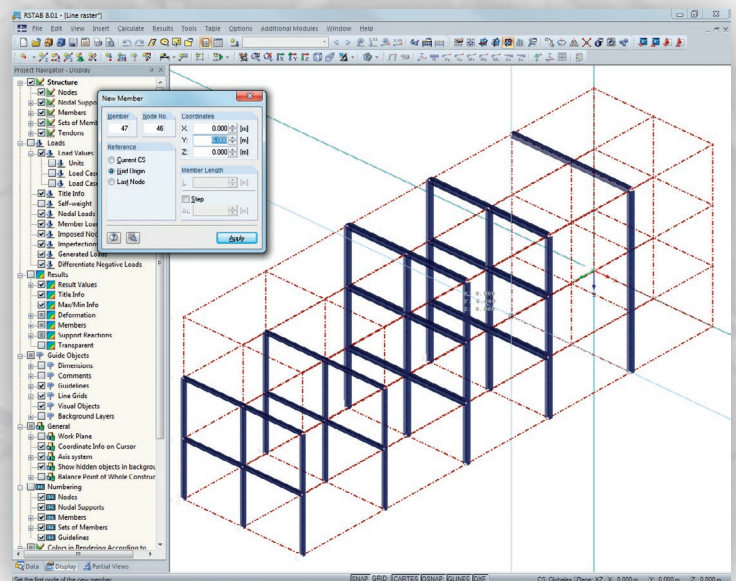


Graphical User Interface

- Clear and intuitive user interface due to detailed and self-explanatory images
- Quick and easy program learning
- Creation of structural and load data in nearly no time
- Model input in tables or directly in graphics
- Immediate structure check due to photo-realistic visualization in 3D rendering (optionally with solid model or transparency)
- Free configuration of menus and toolbars
- Easy insertion of comments and dimensions
- Display control of objects in Display navigator
- Multilingual program handling

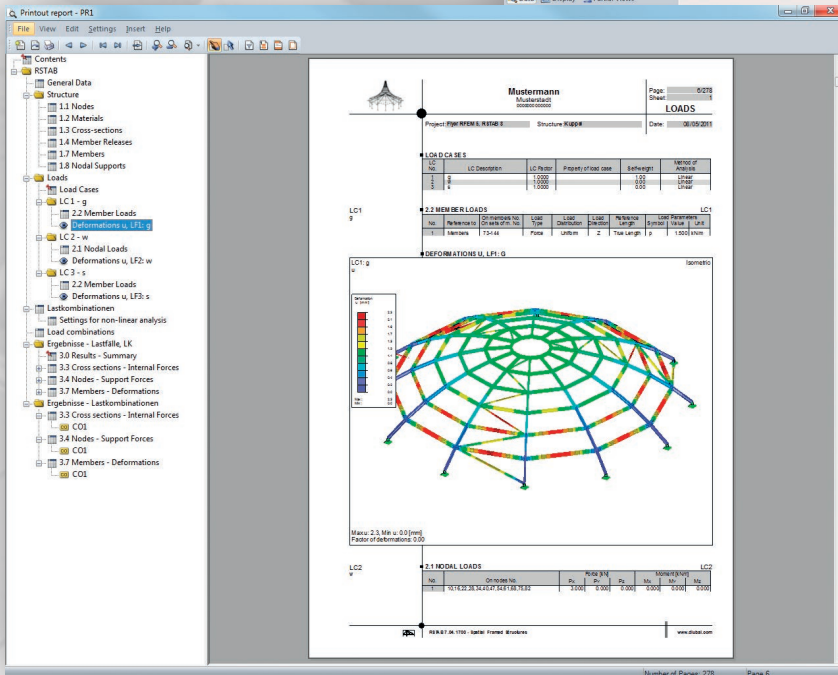
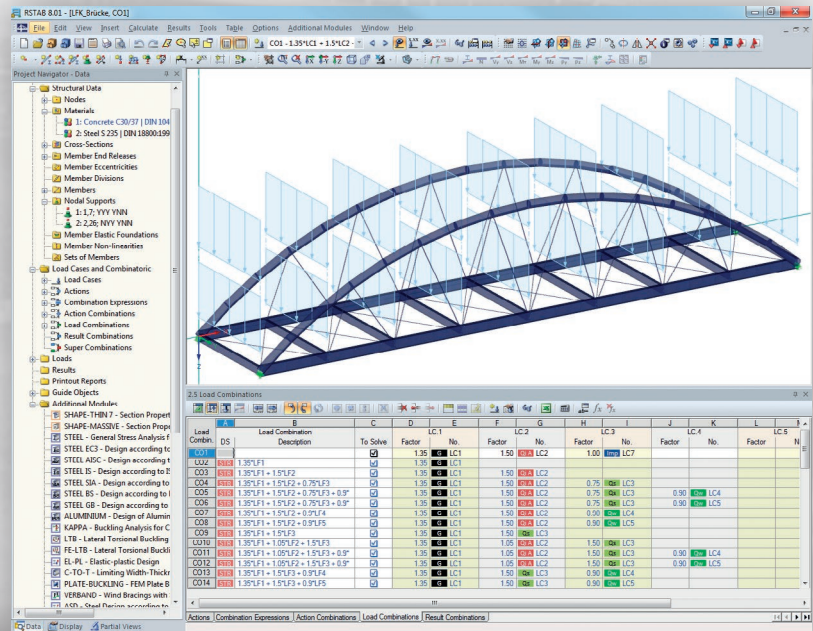
Modeling

- Option to generate structures automatically including loads
- Comprehensive cross-section and material library
- Special cross-sections from SHAPE-THIN and SHAPE-MASSIVE can be imported and calculated.
- Automatic wind and snow load generation according to Eurocode
- Determination of imperfections acc. to Eurocode for members and sets of members
- Easy property definition of object snap
- Application of guidelines, line grids and background layers
- Efficient work by using recurring structures due to parameterized input
- Inserting and saving parametric structures as a block
- Input of member non-linearities, couplings and eccentricities
- Wide range of member types like beam, truss and tension member
- Option to renumber structural objects subsequently
- Detection and correction of input errors by structure check
- Various load types available



Calculation

- Linear calculation acc. to linear static analysis, or non-linear acc. to second-order and large deformation analysis for all types of members
- Option for automatic generation of action, load and result combinations acc. to selected combination rules, now directly integrated in RSTAB
- Setting calculation parameters individually for load cases and combinations
- Calculation of independent sub-structures
- Option to take into account shear deformations of members
- Consideration of non-linear effects



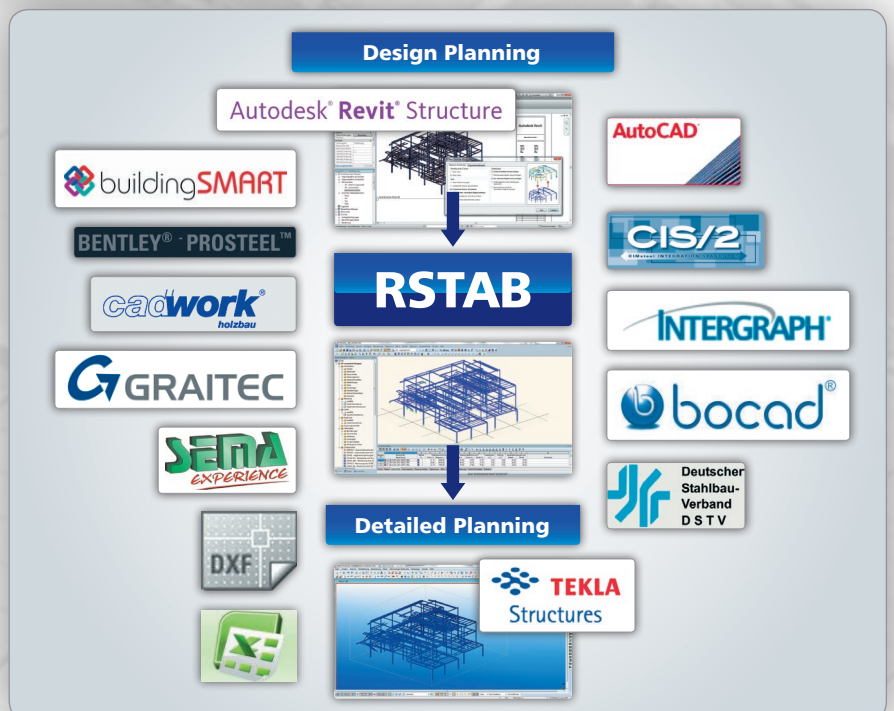
Results Output and Printout Report

- Output of internal forces, deformations and support reactions in tables and graphics
- Colored results display for rendered model, colors and range of values freely adjustable
- Results display for total structure or selected structural parts
- Animation of deformations
- Manual or automatic printing of graphics into the report
- Multilingual use
- Individual adjustment of printout extent and storage as template
- Optional report export in RTF or PDF file

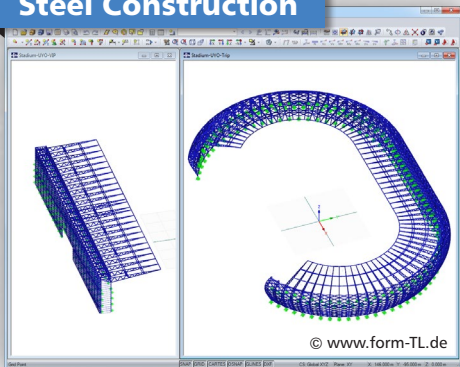


Supporting the BIM Process

- Ensuring a continuous computer-assisted project workflow due to numerous integrated interfaces
- Standard file formats for data exchange like DXF, IFC, DSTV, STP, SDNF etc.
- Direct interfaces with AutoCAD, Autodesk Revit Structure and Tekla Structures
- Working on 3D model with material and geometry information
- Keeping intelligence of objects during data transfer
- Direct connection of CAD with structural analysis with update function
- Exchanging table values with MS Excel, OpenOffice.org Calc and in CSV file format
- Optional plausibility checks after import or before export
- Efficient teamwork for engineers



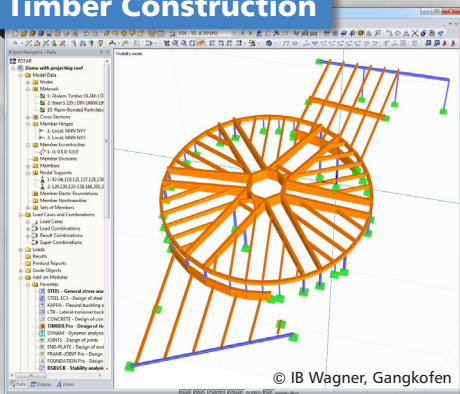
Steel Construction



Stress analysis, designs (ultimate limit state, stability, deformation, flexural buckling, lateral-torsional buckling, safety against plate buckling, cross-sections according to elastic-plastic method), buckling modes and shapes, critical load factors, effective lengths, imperfections, cross-section properties, design of structural components acc. to EC 3, AISC, SIA, IS, BS, GB, CSA, AS, NTC-DF, SP, SANS, NBR, layout of connections

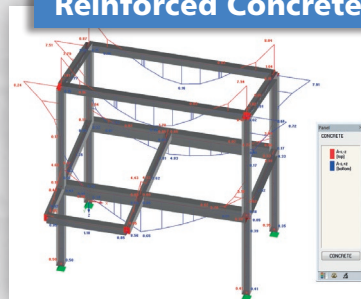
With the RSTAB add-on modules you always find the right solution to succeed in your professional life.

Timber Construction

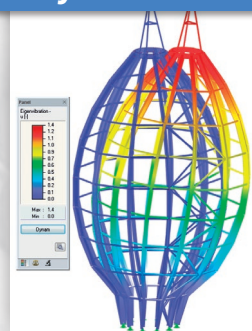


Design of members, columns and foundations, analysis (bearing capacity, serviceability, fire resistance), model column method or method based on nominal and biaxial bending with axial force as well as shear and torsion, codes: EC 2, SIA, ACI, GB

Reinforced Concrete



Dynamics



Member design, dowel connections with slotted sheets, standards: EC 5, SIA, AWC, CSA



Eigenfrequencies and eigen-modes, forced vibration analysis, generation of equivalent lateral forces for earthquakes acc. to multi-modal response spectrum method



Aluminum



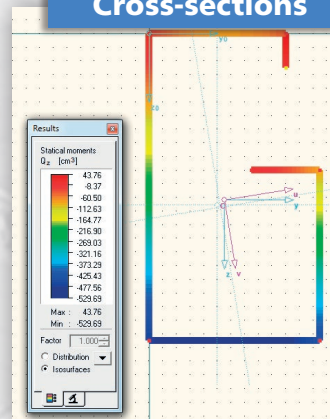
Ultimate limit state design, stability analysis and serviceability limit state design for aluminum structures acc. to EC 9



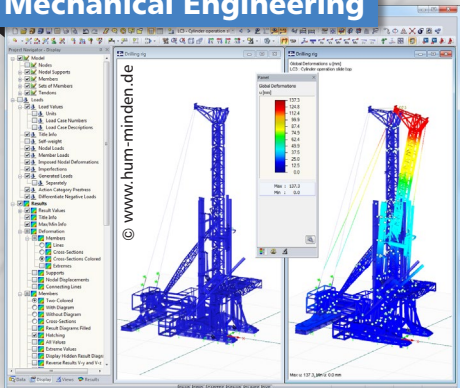
Determination of cross-section properties for any thin-walled and massive cross-section in SHAPE-THIN and SHAPE-MASSIVE, input in graphics, tables or by DXF import, stress analysis, direct connection to RSTAB, expandable material library, printout report with option for short form printout, classification acc. to EC 3 in SHAPE-THIN, reinforced concrete design in SHAPE-MASSIVE



Cross-sections

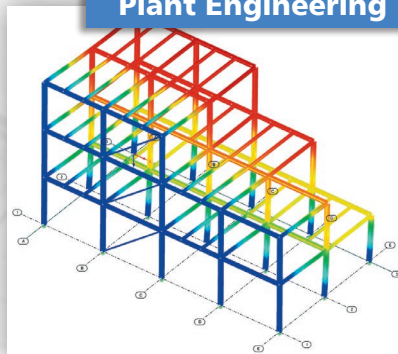


Mechanical Engineering

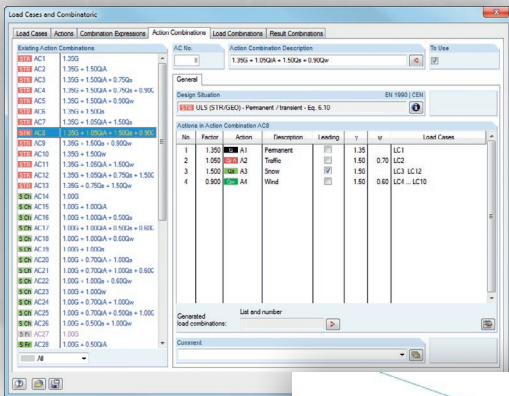


3D constructions, truss structures, frameworks etc., stability problems, machine dynamics, material handling, automotive engineering, interfaces with Frameworks, Tekla Structures, Advance Steel, Bocad etc.

Plant Engineering



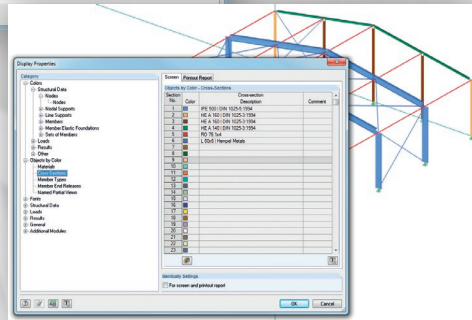
New Features in RSTAB 8



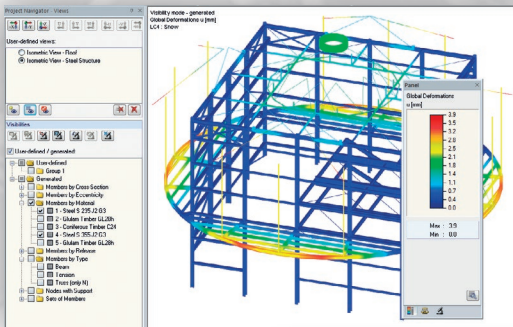
Now the **automatic generation of action, load and result combinations** according to the selected combination rules is directly integrated in RSTAB.



Option to adjust settings for rendering colors according to object properties



Easy working with generated and user-defined partial views in the **new Project Navigator - Views**



Selected Features for Structural Input in RSTAB 8

- Creating and saving line grids easily
- New material model: isotropic thermic-elastic
- Favorites list for cross-section library
- Definition of semi-rigidly or rigidly coupled timber and hybrid (mixed) cross-sections
- New options for work plane (3 points plane, member axis + plane, offset)
- Starting the recently used function by <Enter> or right-click
- Definition of object properties to be displayed in pre-selection
- "Slicing" objects by means of clipping plane
- Rendering for loads and transparent structural model
- Option to insert comments in planes
- Buttons for comfortable support definition
- Defining member start in relative distance of a member

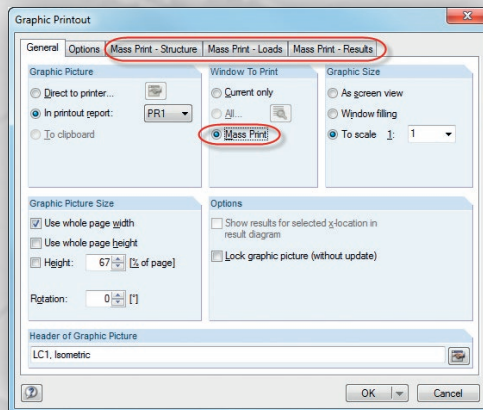
Selected Features for Load Input and Analysis

- Application of loads from multi-layer structures like roof, ceiling or floor structures
- Generation of area loads variable in direction x and y
- Input of inclination and precamber in absolute values
- Displaying generated loads separately
- Nodal loads in direction of node, member, user-defined coordinate system
- Parabolic and quadrilateral member loads

Selected Features for Results Output and General Functions

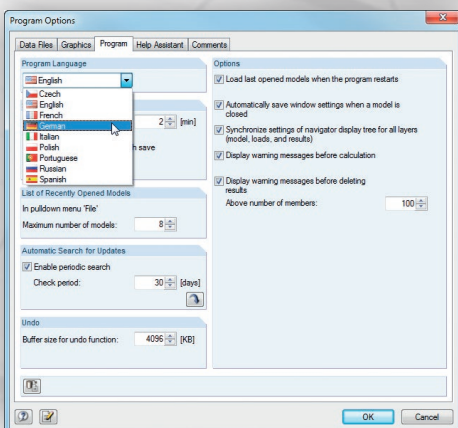
- Setting and saving display properties, program options, toolbars etc. with the new Configuration Manager
- Easy deletion of module data directly in Data navigator
- Export of printout report in PDF file
- Enhanced animation of deformations
- Output of filtered results (e.g. only designs with particular ratio)
- Model printed in 3D PDF (also with loads, results, etc.)

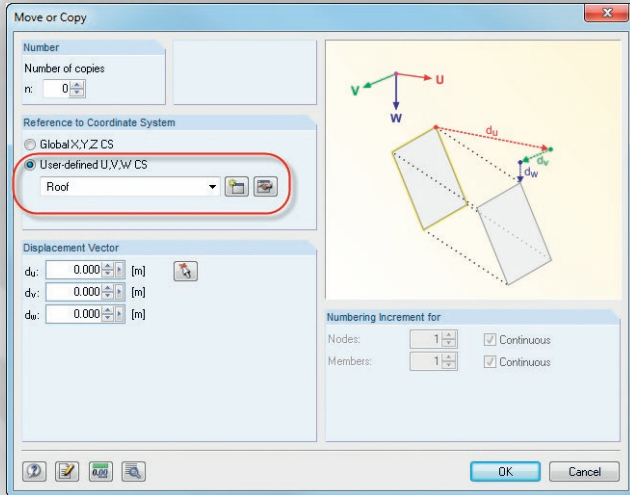
Direct mass print of structure, loads and results graphics into the printout report



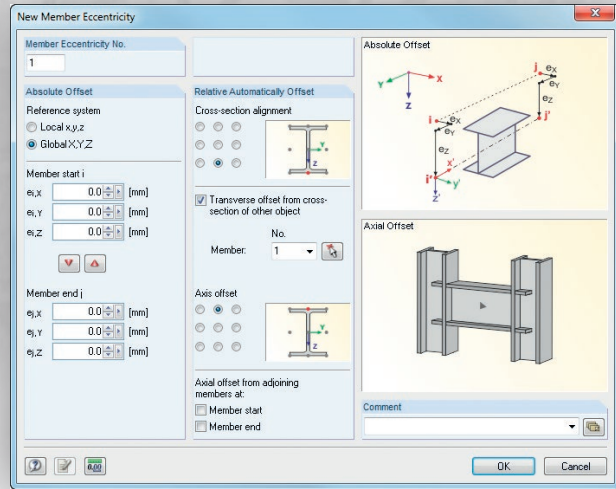
Six new program languages implemented

Now it is possible to work with a German, English, Czech, Italian, Spanish, French, Portuguese, Polish and Russian user interface.





← **Shifting objects in user-defined coordinate system**



→ Entering **relative and automatic member eccentricity** referring to other member

Get to know us

Would you like to know more about **RSTAB**? Ask for a **free trial version** without obligation or use the **download option at www.dlubal.com**.

With the trial version you can learn more about our programs, get acquainted with the handling and calculate structural systems.

See for yourself how easy it is to work with Dlubal software.

If you need help with the first steps with RSTAB, go to www.dlubal.com/en/for-beginners.aspx where you can find introductory examples and tutorials, videos and webinars, manuals and information about our service contracts.

If you are looking for the answer to a particular question, browse the **FAQ** page, visit the Dlubal **blog** or follow us on **social networks** where you can find numerous tips and tricks as well as solutions for everyday problems occurring in many engineering offices. We would also be happy to advise you directly by phone or video call.

You also have the possibility to participate in our **free webinars**, where we give you insight into the operation of our software, show you new features and can discuss questions in detail.

In order to purchase the full version of the software, use our **Webshop on www.dlubal.com** or contact our **service team** which will be glad to assist you in putting together your individual program package.

Upgrades

You are already using **RSTAB**?

Get the program upgrade.

Please contact us or order online at www.dlubal.com.

Service Contracts

Customer service is one of the main cornerstones of the **Dlubal company mission**. The interest in our customers does not end at the point of sale. We offer additional support if it is needed for your daily work.

With a service contract your questions will be taken care of with highest priority and you get upgrades at better rates.

For more information about our service contracts, contact us directly or visit our website at www.dlubal.com.

Technical Support

Our technical engineers are available to all customers whenever there is a question about Dlubal programs. Just send your question by **e-mail** or **fax**. The questions will be answered in the order received and only after enquiries of customers having a service contract have been completed. The extent and speed of response depend on the type of service contract you have purchased.

We welcome any feedback you may have on our products. Your comments and suggestions for improvements are important to us.

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