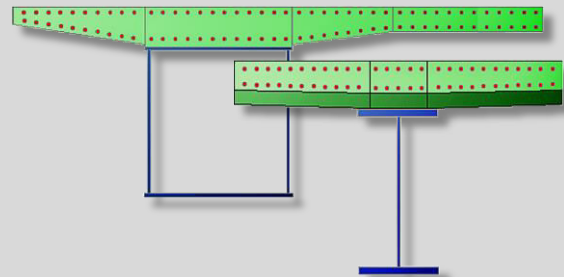


RTcompositesteelpre and RTcompositesteelbox

11.11.476 RTvkt fem
11.11.475 RTvft fem
11.11.473 RTvkt frame
11.11.472 RTvft frame

Extension modules for precast beams and box girders for steel composite bridges

- Dimensioning according to DIN technical report, ÖNorm and Eurocode
- Steel composite precast beams for optimised bridge systems
- Composite steel box girder for large spans
- Clear cross-section input and display of parameters
- Fast and interactive design and output of bridge girders

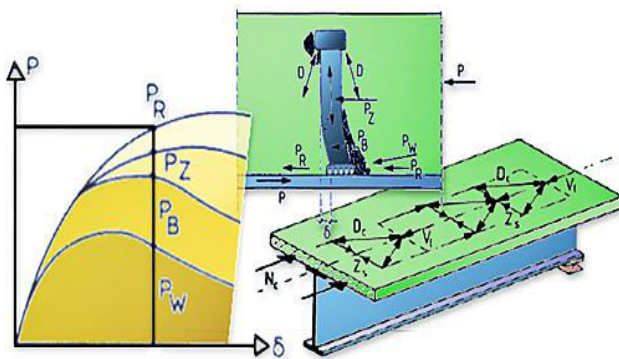


RTstahlverbundFT complements as cross-section module the RTstahlverbund component and supports the special input, calculation and design options for steel girders with prefabricated concrete elements manufactured in the factory. RTstahlverbundKT extends the application to closed box cross-sections with straight and inclined webs as well as single celled, open box cross-sections.



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Steel/concrete prefabricated girder Features

Programme component facilitates for general structures the processing of composite steel-concrete precast member cross sections according to the DIN technical reports 101 and 104. The cross-section module completes the programme component RTcompositesteel and particularly supports the special input, calculation and design possibilities of steel girders with factory-made precast concrete members in the field of composite steel-concrete bridge engineering. This programme option supports the following functions:

- Input of steel composite precast member cross sections with welded i-profiles and i-shaped drum girder cross sections as well as welded boxed girders of structural steel with concrete chord as track supporting plate
- The track supporting plate consists of precast members with a topped cast-in-place concrete layer.

- The concrete materials can vary according to the two partial cross sections
- The varying creep and shrinkage are considered

Besides, all analyses that are performed for the standard cross sections are made in the limit states of bearing capacity, fatigue, serviceability and safety of bonds.

Steel/concrete box girder Features

Programme component facilitates for general structures the processing of composite steel-concrete box sections according to the DIN technical reports 101 and 104. The cross-section module completes the programme component RTcompositesteel and in particular supports the specific input, calculation and design options of:

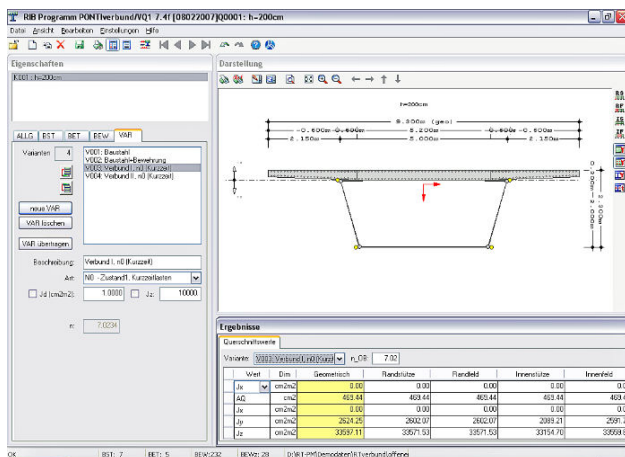
- Hermetic box section with straight and sloping webs
- Single-celled, open box sections

in the field of composite steel-concrete bridge engineering. This programme option supports the following functions:

- Input of hollow box girders with welded, simple symmetrical structural steel boxes with a concrete chord as track supporting plate
- Cross section classification
- Plastic cross section values
- Biaxial design of steel boxes for bending with normal force
- Shear bearing capacity for shear force and torsion

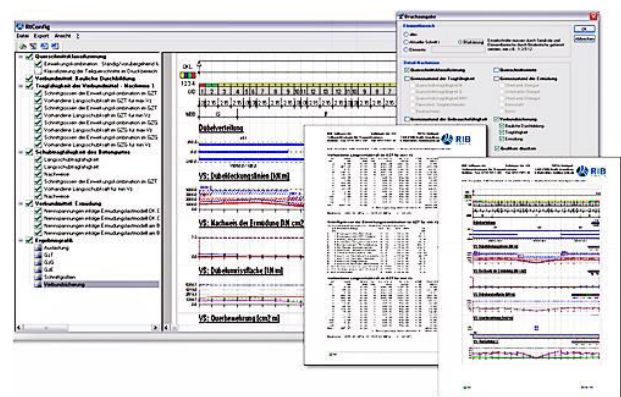
Besides, all analyses that are performed for standard cross sections are performed in the limit states of the bearing capacity, fatigue, serviceability and safety of bonds.

Product Information



Interactive and Configurable Report Display

For the output of the extremely complex design results, result lists can be set up specifically in order to display the essential design parameters as numerical values in tabular form. This allows the output to be compiled in an adequate manner for the engineer and can be printed out in a significant and compact format



These lists can be complemented with girder-related graphics. In this way, even complicated girder and cross-section geometries can be easily and quickly verified and documented.

Cross-Section Optimisation

For an additional optimisation, you can modify, replace or create new partial cross-sections of existing cross-sections and then replace them. As a result, beam optimisation can be easily and quickly performed in the engineering design environment. If required, the system can then be recalculated to test the design.