



# ROHR2

Program System for Static and Dynamic Analysis of Complex Piping and Skeletal Structures

## ROHR2 Update 30.3a New Features and Improvements

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The update of the Program System ROHR2 by software releases is an essential component of the maintenance agreement. The software is developed continuously. The adaptation to the current version of the implemented norms and databases has highest priority for the user.

These are the significant changes and enhancements of ROHR2 Service Release 30.3a:

### ROHR2 30.3a, Changes and improvements

- ASME Class II/III, state 2006 implemented
- ISO 14692 for GRP pipes extended by the analysis of the allowable axial stress for plain pipes according to "Fully measured envelope" (chapter 7.11.2). The equation 22 has been corrected according to "DIN EN ISO 14692-3 corr. 1", 2007. Higher allowable axial stresses will be the consequence.
- Enhanced accuracy check at non-linear calculation (RRN-task)
- To determine the stiffness at rigid supports or blocked springs, the outer diameter to be considered, can be inserted by the user. This may be useful if the support is part of an auxiliary construction made of structural steel sections.
- The hinge conditions can be left out for one or more load cases for the simulation of e.g. a pipe burst.
- The mass at tees may be entered by the user now.
- T-beams can be shown
- The initial load at springs/constant hangers is documented in the spring table.
- Extreme value calculation:
  - Deformation breaks now can be shown inverted
  - The number of possible sections /node increased from 6 to 14).
- The output of the 100x Young's modulus at a T-branch in the output file (table: MATERIAL PROPERTIES) has been changed into "rigid"
  
- *Copy/ Paste* function: objects like texts, drawings, dimensionings, belonging to the part of the system now are included in copy/paste.
- *Properties/ Hinges*: listing of hinges added
- Absolute coordinates and loads on supports at selected nodes/supports may be represented by text objects.
- *Options/ General Settings / Print*: the input of a company name in the text field enabled: The input now is used for plot-tasks.



## ROHR2 30.3a, Manuals Improvements

### **ROHR2stress HB**

- 35.1.3 Stresses from Expansion Loads
- 44.1.1 Stresses for Pipes *ff*
- 44.2.3 SPB (Stressed according to ISO 14692) *ff*

### **ROHR2win HB**

- 4.2.16.6 Stiffness
- 4.2.16.7 Block
- 4.2.17.2 Hinge
- 4.2.17.2.1 Deactivate hinge
- 4.2.17.5 Inner frictional support
- 4.2.20.8 Tee
- 4.2.21.3 Text with absolute coordinates
- 4.2.21.4 Text with support loads
- 4.3.5.16 Browse hinges

The changed pages of the manuals are stored for download in pdf format on the ROHR2 FAQ page ([www.rohr2.de/html/rohr2\\_faq.html](http://www.rohr2.de/html/rohr2_faq.html)).

## Software Development, Sales and Support

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