TRIBON M2 OUTFITTING

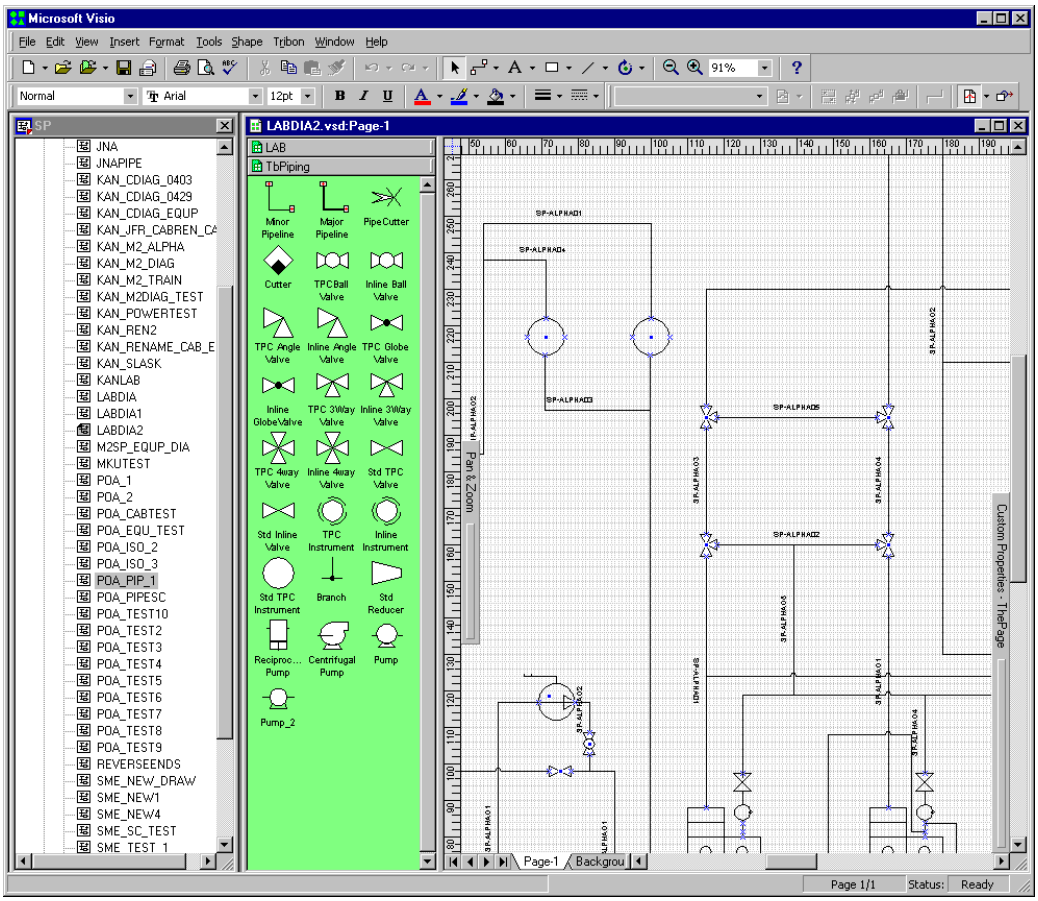
Outfitting

PIPE

1. New General Diagrams Application

Description

A totally new Diagram program has been introduced in Tribon M2. It is built upon the standard software product Visio.



Tribon General Diagrams has been replaced with a Visio based solution in M2.

Benefits

By utilizing Visio for Diagram creation the Tribon installation will be even more powerful than before. The combined strength of Visio's easy-to-use GUI and Tribon Product Model gives you all the tools you need for fast Diagram creation.

Highlights

- Create and import you own shapes with the **Import Shape** feature.
- Link your own shape with a specific component on the Component Databank. The shape will be automatically replaced whenever you set the component (Equipments and Pipeline parts).
- Use a **Drafting** picture as background with the **Import Background** feature.
- Attributes are easily accessed via **Custom Properties** of the shapes.
- Use VBA to automate your work.

Compatibility Constraints

The new Visio based General Diagrams application requires Visio2000 Standard Edition.

It cannot access diagrams created in previous versions of General Diagrams.

For Further Information

See the on-line documentation.

Affected Program

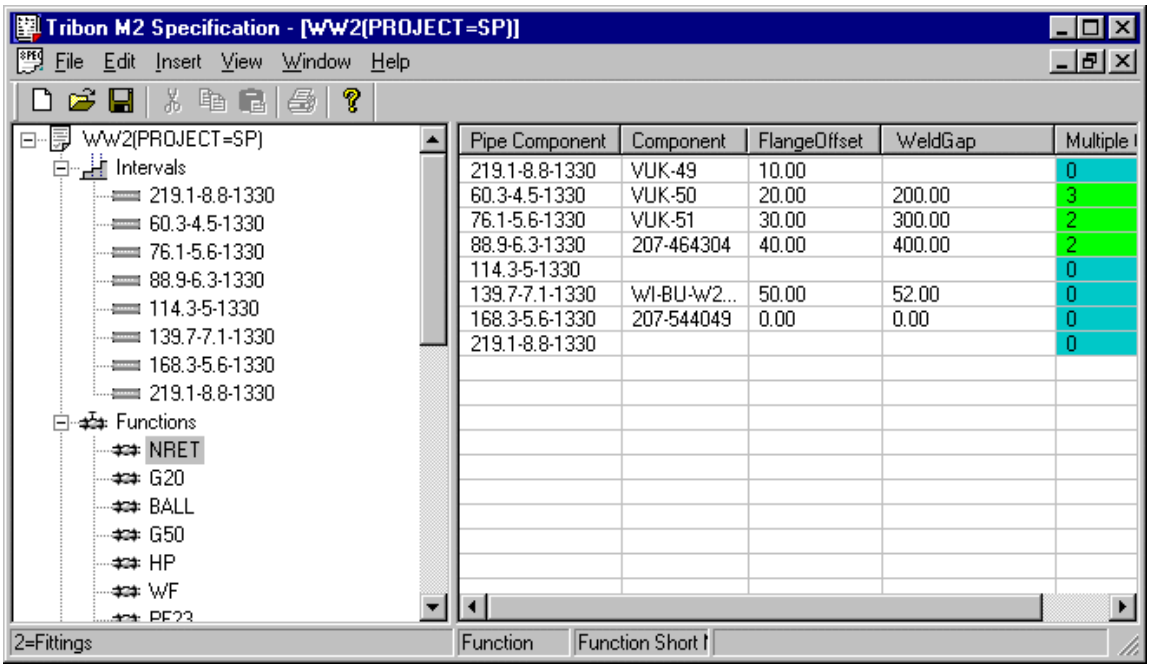
Tribon M2 General Diagrams
(General Diagrams are used for pipe diagrams as well as cable diagrams.)

2. Spec Driven Modelling in Tribon Pipe

Description

Spec driven modelling means that the selection of components is done via specifications. The old handling of specifications is replaced by this new function of spec driven modelling.

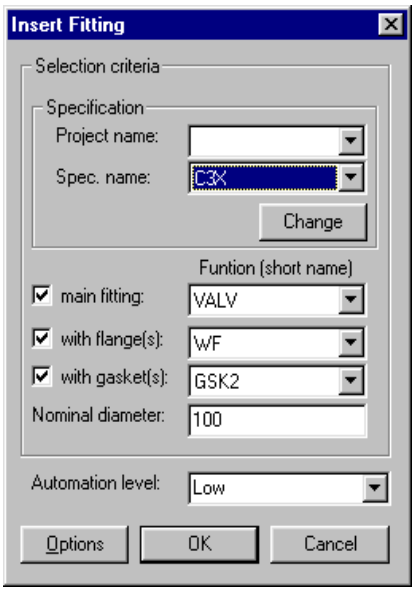
Outfitting



Example of working process:

- Define a pipe in Diagrams and select components (spec driven)
- Create the pipe in Modelling (spec driven), then the component name inclusive the selection criteria, which were used in the diagram for the pipe are reused and saved in the pipe.
- Route the pipe.
- Dress the pipe (spec driven).
- Add and insert fittings (spec driven).
- Re-specify (give only new spec but keep size) or resize (keep spec but give new size) the whole pipe or parts of the pipe.

Outfitting



Example of selection criteria for finding fitting component, including flanges and gaskets.

Benefits

This is a fast and easy way to model, re-specify and resize pipes. Furthermore, it gives possibilities to restrict the use of components, which do not follow a certain quality standard.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Programs

Tribon Specification
Tribon Pipe Modeling
Tribon General Diagrams
Tribon Data Extraction

3. New functionality for aligning pipe surfaces

Outfitting

Description

New functionality for pipe routing is now available. By pressing a new toolbar button shown when routing a pipe frame, it is possible to align the surface of the currently routed pipe with the surface of another pipe. An event point of a pipe part is indicated, a dialog is shown and user selects align direction and pipe diameter of routing pipe. User then gives the align distance by indicating in the drawing. The align directions are front, aft, portside, starboard, up and down. The pipe diameters of routing pipe and pipe to align to, may have any values. The alignment is automatically adjusted.

Benefits

Almost all types of pipe support require pipe surfaces to be aligned. The aligning of pipe surfaces is now easily done during modelling with support from built in functions.

Compatibility Constraints

None

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Model Functions / Route

Affected Program

Pipe Modelling

4. New functionality for moving parts in pipes

Description

New functionality for moving parts in one or more pipes is now developed. By drawing a window or a polygon window around parts to be moved, selection is easy and versatile. User may then define the distance to move the parts in many various ways, making it possible to orient the parts according to other objects in drawing. The movement is done in the direction of the parts connected to selected parts.

Outfitting

Connected parts must be parallel, straight and will change length according to move distance.

Benefits

Easier to change pipe objects

Compatibility constraints

None

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Functions / Move Parts

Affected Program

Pipe Modelling

5. Centreline representation for pipes of smaller dimensions

Description

By setting the model draw code the user can define a pipe diameter below which the pipe will be drawn as a centre line in stead of as material. In the default file SBD_DEF the keyword PIPE_TUBE_CODE_DRAW should be set to 7, centre line or material, to activate this feature, and the keyword PIPE_TUBE_DRAW_DIA should be set to the minimum diameter for which material representation is requested.

Benefits

Easier overview of large drawings

Compatibility constraints

None

For further information

See the on-line documentation, Tribon M2 Drafting / Drafting / User's Guide / Appendices / Drawing / Default File / Drawing Codes

Affected Program

All interactive programs

6. New way of choosing components using specification

Description

When a component is to be added or inserted a new selection box will apear. By this components will be chosen via specifications. New keywords ALWAYS_WITH_FLANGE and ALWAYS_WITH_GASKET will tick the boxes indicating that these components must be chosen together with the main fitting selected. The new keywords DEFAULT_FLANGE_NAME and DEFAULT_GASKET_NAME will give the start value for these functions, after that one choice is made the latest settings will always appear as default. The new keyword COMP_SELECT_AUTLEVEL will set the automation level for choosing the different components, where
0 – low level
1 - medium level
2 - high level
This could also be changed from the selection box. Pressing the option button will give access to the standard menu for choosing components without using specifications. This should also be used for picking joints and boss connections. If no modelling without specification is allowed pressing the options button will only give access to their joint and boss functions.

Benefits

Improvement of use of specifications and component selection

Compatibility constraints

To be used with Tribon M2 Pipe Specifications.

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Model Functions / Part Add and Part Insert.

Affected Program

Pipe Modelling

7. Improved gasket handling

Description

New keywords ALWAYS_WITH_FLANGE and ALWAYS_WITH_GASKET will tick the boxes indicating that these components must be chosen together with the main fitting selected. See also documentation for the new way of choosing components using specifications. A new keyword READY_GASKET_CHECK is implemented. When turned on it will make the ready function check for missing gaskets within the pipe. The function, which gives automatic position names to spools will give all gaskets the name SB_GASKET.

Benefits

Gasket handling is made easier

Compatibility constraints

None.

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Model Functions / Part Add and Part Insert.

Affected Program

Pipe Modelling

8. Visualization of flange rotation in pipe modelling

Description

A new model draw code for flanges is available. This code represents the flange with an orientation line, making the rotation of the flange visible in the drawing

Outfitting

Benefits

Visible flange rotation

Compatibility Constraints

none

For further information

See the on-line documentation, Tribon M2 Drafting / Drafting / User's Guide / Appendices / Drawing / Default File / Drawing Codes

Affected Program

All interactive

9. Pipe default values

Description

The handling of pipe modelling's default file SBP_MODEL_DEF is changed to have the same functionallity as TRIBON Drafting. That is, it is possible to view and change the default values during the pipe modelling session.

Benefits

Easier default handling

Compatibility Constraints

none

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Appendix / Default File

Affected Program

Pipe Modelling

10. Mirror check optional

Description

After the mirror function the system performs a check of the pipe. Parts that give problems in this check are replaced by frames. It is now possible to switch off this check by using the keyword MIRROR_CHECK in the default file SBP_MODEL_DEF

Benefits

Mirror check optional

Compatibility Constraints

none

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Appendix / Default File

Affected Program

Pipe Modelling

11. Metric bending radius

Description

Metric bending radius is now complementing the existing factor bending radius. The choice of which format to use is handled by the keyword BENDING_RADIUS in SBP_MODEL_DEF for pipe modelling and bending machine object setup program, and in SBP_SPLIT_DEF for pipe splitting program.

Benefits

Choice of presentation format for radius

Compatibility Constraints

none

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Appendix / Default File and Tribon M2 Outfitting / Pipe / Background jobs / Splitting of Pipes / Input / The Def File

Affected Programs

Pipe Modelling
Pipe Splitting
tbmachineobjset

12. Improved presentation of bending angles on pipe

Description

The BEND_ANGLE keyword in the default file SBP_SPLIT_DEF now has the values OFF, BEND and PROJECTION. When the key word BEND_ANGLE is set to BEND the real pipe bending angle is shown in the Pipe Sketch. When BEND_ANGLE is set to PROJECTION the
angle in the projection plane is shown in the Pipe Sketch.

Benefits

Choice of angle presentation

Compatibility Constraints

None

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Background jobs / Splitting of Pipes / Input / The DEF File

Affected Program

Pipe Splitting

13. New functionality for deleting parts in a pipe

Description

New functionality for deleting parts in a pipe is now developed. Previously only one part at a time could be indicated and deleted. Now several parts can be selected and deleted in one operation. Selection is done by either indicating as before, or by drawing a window or a polygon window around parts to delete. Delete is done by removing the parts totally, removing the parts material or by substituting the parts material with straight components.

Benefits

Deleting parts in a pipe is easier and less laborious.

Compatibility Constraints

None

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Model Functions / Part Delete

Affected Program

Pipe Modelling

14. New functionality for re-size, re-place and re-specifying

Description

By re-sizing a pipe, its components are replaced to match a specific diameter, flow, velocity or pressure class. New components are selected according to a specification created in the new specification program. By re-specifying a pipe, its

components are replaced to match a new specification. The result of the operation is always displayed and may always be cancelled, making it possible to reject situations were new components did not match the environment. Everything from an entire pipe down to a single part is available for re-sizing/re-specification.

Benefits

The size of a pipe may be changed to match new demands.

Compatibility Constraints

None

For further information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Model Functions / Resize/Respec

Affected Program

Pipe Modelling

15. Tagged Pipe Components

Description

A tagged pipe component is an inline pipe component that has some additional features compared to normal pipe parts:

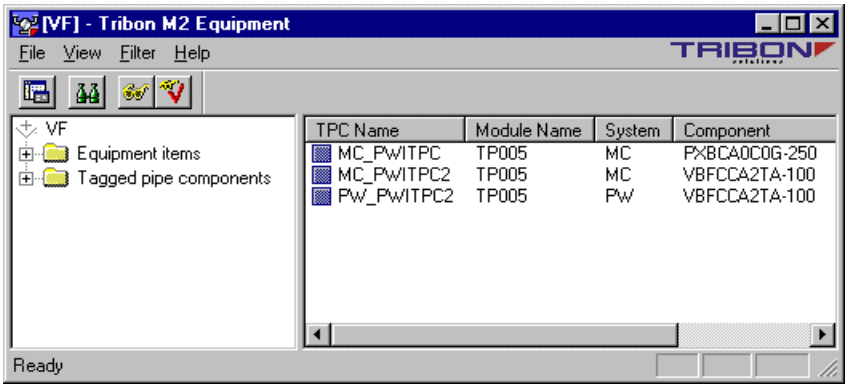
- Can be defined at an early stage as a separate object in the database with free naming.
- A number of additional attributes can be defined
  - All attributes existing for Equipment objects
  - TDM attributes
  - User defined attributes
- Parts lists can be created early in the design process for material estimations

In other aspects they are treated as normal pipe parts

A new branch of Tagged pipe components (TPC) is added to the equipment maintenance program. Here it is possible to create, edit and delete Tagged Pipe Components and their data.

Outfitting

The Tagged Pipe Components defined here can then be used in Tribon Diagram and Tribon Pipe Modelling. It is also possible to create Tagged Pipe Components directly in Diagram and Pipe Modelling.



Benefits

Possible to get early estimates of and add more data to complex pipe components.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

Tribon Equipment
Tribon General Diagrams
Tribon Pipe Modeling

16. Reference Co-ordinates in Pipe Sketches

Description

The X, Y and Z co-ordinates presented in pipe sketches do now support reference co-ordinates (frame numbers, longitudinal positions etc)

Outfitting

Benefits

Easier to use pipe sketches for mounting of pipe spools in the vessel.

Compatibility Constraints

None.

For Further Information

See the on-line documentation of reference co-ordinates.

Affected Program

Tribon Pipe Splitting

17. New Pipe Data Extraction Keywords

Description

New keywords for data extraction are available to extract information stored by Tribon Diagrams. This information is stored in pipeline objects on the Pipe Structure Data Bank.
Keywords for excess information from Pipe Model Object are also added.

Benefits

Easy access to data defined in Tribon Diagrams.

Compatibility Constraints

Only for data stored by Tribon M2 Diagrams

For Further Information

See the on-line documentation Tribon M2 Developer's Toolkit > Data Extraction > Pipe Keywords

Affected Program

Data Extraction.

18. New application to define machine objects

Description

A new application is developed to define machine objects for bending machine, flange welding machine, boss extrusion machine and boss distance.

Benefits

Easier definition of machine objects

Compatibility Constraints

None.

For Further Information

See the on-line documentation Tribon M2 Outfitting / Pipe / Initiate Outfitting / Define Pipe Shop Machine Characteristics

Affected Program

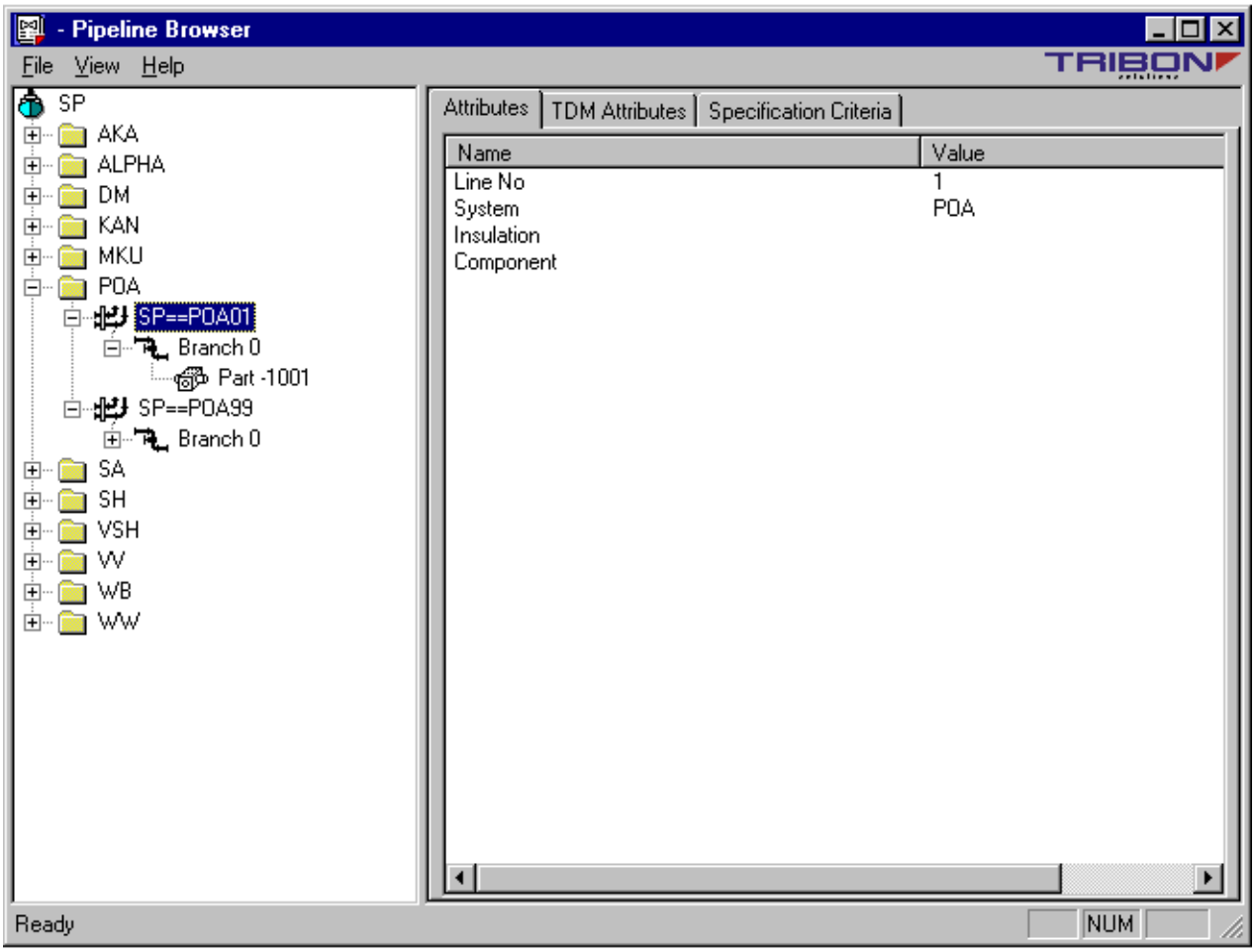
Machine Objects Setup.

19. Pipeline Browser Application

Description

A new application program, a Pipeline Browser, visually depicts the database representation of the Pipeline objects in a project.

Outfitting



Benefits

The visual interface makes browsing and finding interrelations easy.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

Outfitting

Pipeline Browser (this program only).

VENTILATION

20. New ventilation component types

Description

2 new ventilation component types are implemented; 3-way component and 4-way component. For both it is required to have all connections points in the same plane and referring to the same node point.

Benefits

New component types available.

Compatibility Constraints

None.

For Further Information

See the on-line documentation, Tribon M2 Outfitting / Components / Component type codes / Ventilation Components

Affected Program

Components
Pipe Modelling

21. Connect on Surface of Ventilation Duct

Description

The connect function is now extended to handle connections on the surface of a ventilation duct. Functionality to route from the surface of a circular ventilation duct is also added.

Outfitting

Benefits

Improved handling of branches from surface of ventilation duct

Compatibility Constraints

None.

For Further Information

See the on-line documentation, Tribon M2 Outfitting / Pipe / Pipe Modelling / Interactive Pipe Modelling / Pipe Model Functions / Route

Affected Program

Pipe Modelling.

STRUCTURE

22. Bent Plates, new part type for Structure Modelling

Description

When designing foundations and miscellaneous steel, many parts are made up of bent plates. Up until now, it has not been possible to design these parts with the Structure Modelling application. This functionality has now been added and thus it is now possible to design parts with e.g. rounded corners, corrugations and swedging. <Insert Pict1 here> The bent plates are split into plate parts in the same way as other plates in the Structure Modelling application. The result is a plate with bending information. It is also possible to split the bent plates into separate parts.

Benefits

It is now possible to create bent plates in Structure Modelling and thus make it easier to design many miscellaneous steel parts.

Compatibility Constraints

None

For further information

See online documentation

Affected Program

Tribon M2 Structure Modelling

23. General Bar Section

Description

A new type of bar is introduced in the Structure system. It has a general bar section defined by an arbitrary closed contour. The contour may not intersect itself but can apart from that have any shape. The bar is modelled as other bar types. A general

bar cannot have specifically defined endcuts or holes, neither can it be curved. As other bars is is presented in the picture and is included in any type of report. A special function is used to create the general bar section. The contour created is stored as a volume object with a user defined name. This volume is then refered from the Components program when defining a new stucture bar component. From geometry in any drawing a closed contour is defined by picking contour elements. The pick points should be inside the contour-to-be. The individual geometry elements must be picked in order, clockwise or anticlockwise. The local origin of the contour is highlighted before confirming the contour. When modelling, the description line will attach to the local origin of the contour. When defining a general bar component, the volume type should then be set to 2 and the usage code to 90. It is also possible to override the center of gravity implied by the closed contour. This is done via the Extensions tab and is given as a 2D point (U,V) in the local coordinate system of the contour. The profile parameters a to u can still be set, but are regarded as added information and has no influence on the cross-section contour.

Benefits

Bars with general user-defined section can be defined and modelled as well as included in pictures and reports.

Compatibility Constraints

None.

For further information

See on line documentation Outfitting\ Structure

Affected Program

Structure

24. Mirror Transform and Duplicate

Description

The multiple parts functions are extended with mirror transform and duplicate functions using a 2D line for reference.

Benefits

This is very useful to transform and copy based on center line or in symmetrical arrangement.

Compatibility Constraints

None.

Affected Program

Tribon Structure Modeling

25. Bent Profile

Description

Bent profile functionality is now available. Bent profiles can be created from a 2D contour or as a “fillet profile” created from 2 existing, straight profiles.

Benefits

Bent profiles can be created in the model.

Compatibility Constraints

None.

Affected Program

Tribon Structure Modeling

26. Endcut enhancement

Description

The endcut functions have been improved with possibilities to create “snips” in profiles and to automatically create a mitre connection between prpofiles. The snip is available on L, T and F bars and mitre connection is available in L, T and I-bars.

Benefits

Easy to “connect” profiles and to create typically used endcuts

Compatibility Constraints

None.

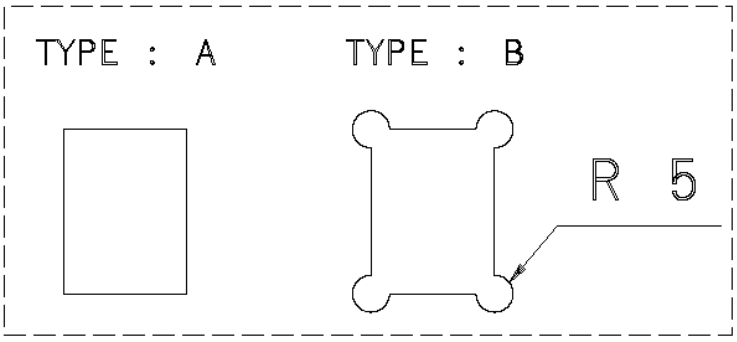
Affected Program

Tribon Structure Modeling

27. Improved hole functions for profiles.

Description

The hole function is improved to support automatically generated holes for profiles passing through other profiles There are two types of hole as shown below and in case of B type the user is required to give radius. In both cases a user defined gap can be applied between the profile and the hole.



Standard and general holes can be created in all profiles but this automatic function is only valid on L, T, F, I –bar.

Benefits

The system automatically creates holes with complicated geometry when profiles are passing through other profiles.

Compatibility Constraints

Outfitting

None.

Affected Program

Tribon Structure Modeling

28. Data Extraction Extended

Description

The data extraction is extended with keywords to extract information from a general hole in a profile.

Benefits

User can extract hole data for parts lists and manufacturing instructions.

Compatibility Constraints

None.

Affected Program

Tribon Structure Modeling

CABLE

29. Improved cableway frame modelling functions

Description

The cableway frame modelling functions are complemented with new functions as Route X, Route Y, Route Z, Route XYZ, Route YXZ. These functions make it easier to model the most usual constructions. Existing branches are automatically continued if the start or end point of the new parts is the same as a start or end point of an existing branch. A delete part function removes a cableway part. It is not necessary that the part is the first or last in a branch. The insert part function moves parts logically to the current cableway from another cableway.

Benefits

Easier to model cableways

Compatibility constrains

None

Affected Program

Cable Modelling

30. Automatic split of cableway branches

Description

The function splits all cableways, selected in a group, in the way that the cableways not will consist of more than one branch. The new cableways are named by automatic rules. The cableway name will be set to be the same as the name of a penetration, if one is found on the cableway. If not applicable, default values are used to create the cableway name.

Outfitting

Benefits

Cableways can be split to simplify the route description of cables.

Compatibility constrains

None

Affected Program

Cable Modelling

31. New component types for cableway material

Description

A new type of components, used to dress cableways, is introduced. This types of components has a reference to a standard structure. A structure is created automatically when dressing the cableway frame with this type of components. The structure and cableway part will have a reference to each other. This reference makes it possible to handle the structure as a cableway part in cableway fuctions as rotate part, delete part, undress part, move cableway, delete cableway etc. The structure can also be modified by the structure modelling functions as stretch part etc. A new type of bent component with an arbitrary angle is also introduced. Valid for both standard and structure components.

Benefits

A lot of new types of components can be used by the functions handling cableway material

Compatibility constrains

None

Affected Program

Cable Modelling

32. Automatic definitions of cableway imaginary penetrations

Description

A new group function makes it possible to automatically define an imaginary penetration at the start and end point of a cableway branch. The name is built up by a prefix, fetched from cable default handling, followed by a sequential number of 3 digits. The purpose of placing imaginary penetrations is to define the route of a cable and to describe the resulting cable route.

Benefits

Easier to define imaginary penetrations.

Compatibility constrains

None

Affected Program

Cable Modelling

33. Restrictions of cableway name

Description

Vitesse triggers are implemented in the cable system to make it possible for the user to check that the cableway names are valid when keying them in. Vitesse triggers can also be used to verify that the keyed in components are valid. An example can be found where the triggers are documented

Benefits

The user can customise a verification of which cableway names and components that shall be used.

Compatibility constrains

None

Outfitting

Affected Program

Cable Modelling

34. Improved cable selection tools for backgound job

Description

The cable selection form, for background jobs, is extended with buttons that includes predefined system in the list of cables. The names of the predefined systems are set up by default parameters

Beneftis:

The selection of cables for background jobs can be simplified.

Compatibility constrains

None

Program name

Cable Modelling

35. Routing automatically by predefined nodes

Description

The user may define which nodes (penetrations) the cable is supposed to pass when routed on cableways. This definition can be done interactively or as a background job. The definitions of the nodes themselves can be made interactively or as a backgound job.

Benefits

The user may more precise define which way the cable shall be routed when it is run as a background job.

Outfitting

Compatibility constrains

None

Program name

Cable Modelling
Cable Batch Routing

36. Improved length calculations for cables

Description

The user may define one extra excess length for each cable end. These extra excess lengths are included in the total length and can be used inside the equipment for connecting. The extra excess length may be updated interactively or as a background job. An excess length may also be added to every cableway branch. This excess length is added to the cable length if the cables passes the branch.

Benefits

The cable length calculations are improved

Compatibility constrains

None

Affected Programs

Cable Modelling, Cable Batch Routing

37. Cable note

Description

Outfitting

The information displayed about cables passing a cableway or penetration by the cable check function can be placed as a drawing note,

Benefits

It is easier to place information about passing cables on a drawing.

Compatibility constrains

None

Affected Programs

Cable Modelling

38. New cable draw codes

Description

New draw codes are implemented: The drawing of cableway frame can be omitted or specified to be a specific line type. The drawing of cableway parts, that is dressed with a component with standard structure reference, can be omitted or specified to be a specific line type.

Benefits

Collisions between cableway frame and other model objects can be avoided. Easier to indicate structure parts used as cableway material.

Compatibility constrains

None

Affected Program

Cable Modelling

39. Improved cable GUI

Description

The cable change data form has been complemented with fields for the new attributes. It is also possible to create new cables in the new change data dialogue if no cable is current.

Benefits

Easier to update and create cables.

Compatibility constrains

None

Affected Programs

Cable Modelling

40. New General Diagrams Application

Description

A totally new Diagram program has been introduced in Tribon M2. It is built upon the standard software product Visio. The diagram program is used for cable diagrams as well as pipe diagrams. See Release note number 1 above.

41. Zone lengths for cables

Description

A feature to add a named length for a cable is implemented in M2. The length can be used as a preliminary estimation or as estimated length of a part of the cable

that the user not wants to route. The zone length can be set both interactively and by using the background job feature. The length is added to the total length.

Benefits

The user has a tool to manipulate the cable length estimations.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

Cable Modelling
Cable background Job Routing

42. Intermediate material function for cableway

Description

The user is able to define the cableway material for a branch by the following steps. Indicate the start and end part. Key in material and intermediate distances in a form. The new component types with structure references can also be used.

Benefits

Previously the user had to manually put corners before dressing to get the same result.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

Cable modeling.

43. Connect cableway and structure

Description

The user is able to connect cableways and structures by interactive functions found in the structure pull down menu and by using structure vitesse. The connection is supposed to be used for cableway hangers and affects functions as move cableway e.t.c. The connections can be visualized by the Display connection function in the structure and cableway pull down menu.

Please note that connections between cableways and structures are automatically generated when the user dress a cableway frame with material that has a standard structure reference.

Benefits

The cableway hangers will be moved along with the cableway if it is moved. The topological reference cab be used directly by user from data extraction.

Compatibility Constraints

None. Please note that the references will be destroyed if the model is accessed by a M1 or TB5 application.

For Further Information

See the on-line documentation.

Affected Program

Cable Modelling
Structure Modelling

Outfitting

Structure Vittesse

EQUIPMENT

44. Extended Import Format for Equipments

Description

The text import in the Tribon Equipment program is improved to now also support X, Y and Z co-ordinates.

Benefits

Many equipments can be easily and quickly created and placed in the model using an ordinary comma separated text file.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

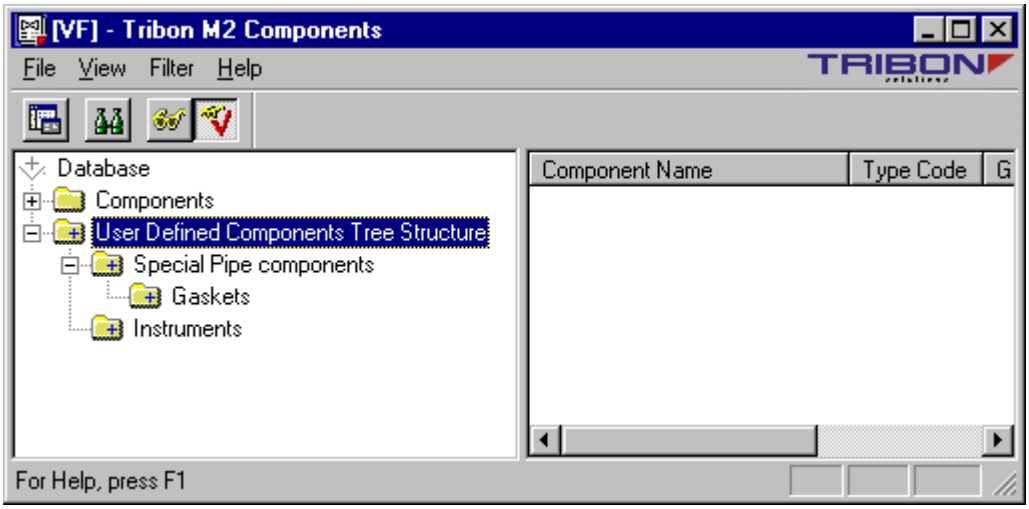
Tribon Equipment Program

COMPONENTS

45. The User Defined Tree Structure Tool

Description

This new tool in Tribon Components is used to create a user-defined tree, which differs from the fixed component type tree.



Benefits

The purpose is to find components easier.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

Tribon Components

46. Tribon Component Program Accessible in Applications

Description

The Tribon Component program is now used when searching for components in interactive applications.

Benefits

All features in the Tribon Component program can be used when selecting what component to use in the model. Features like the tree view, the search functions, the property pages and the user-defined component tree build a powerful search engine to more easily find and use components when modeling.

Compatibility Constraints

None.

For Further Information

See the on-line documentation.

Affected Program

All programs where components are searched for and selected.

47. Link to tribon.com for Downloaded Components

Description

The Tribon Component program has a link to the tribon.com site that will give immediate access (login required) to the relevant web pages for a downloaded component.

Benefits

Easy access to additional information for a component.

Compatibility Constraints

None.

Outfitting

For Further Information

See the on-line documentation.

Affected Program

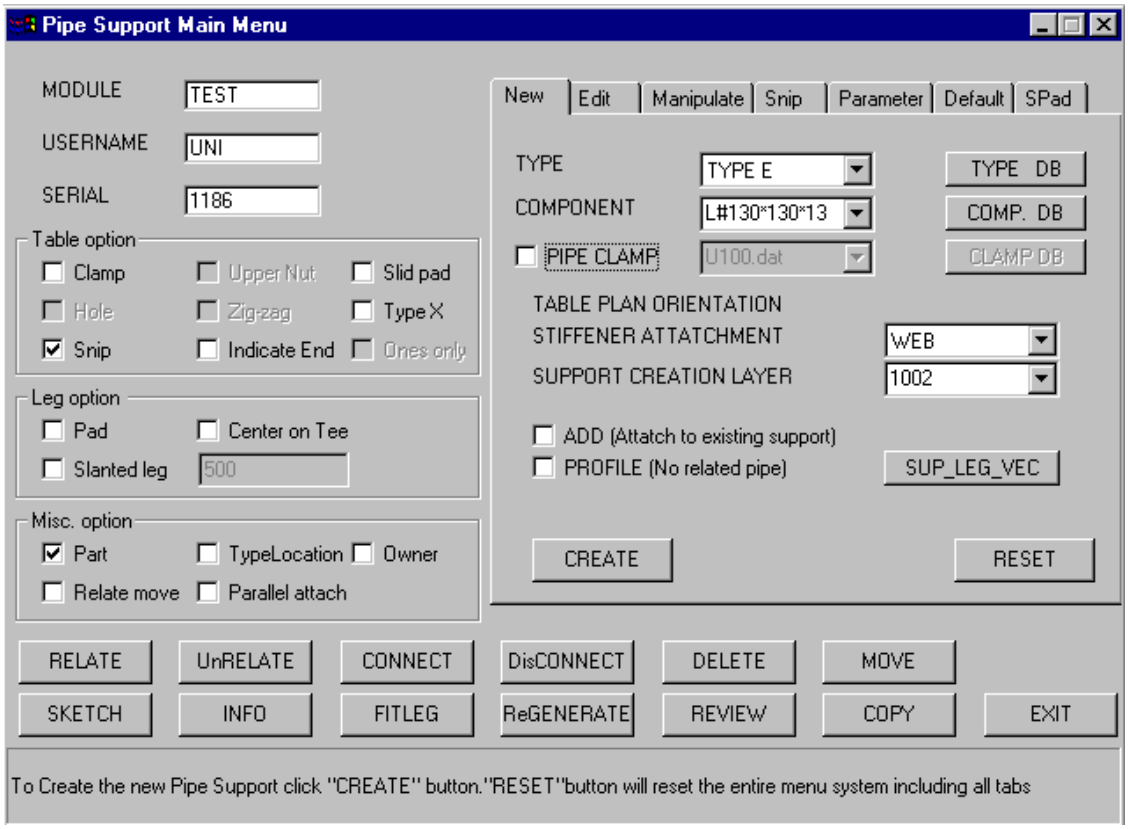
Tribon Component Program

PIPE SUPPORT

48. Pipe Support New Menu

Description

A new menu system is implemented in the Pipe Support package as below.



Benefits

Better interface with many new features.

Compatibility Constraints

None.

Affected Program

Pipe support package

49. Pipe Support Edit function

Description

An edit function is introduced with three main categories:
Unit edit, Member edit and Pipe edit.

Rename and flip-U are main functions in Unit edit and Rename, Flip-U and Flip-V are available in member edit for profiles that are not related a pipe. In pipe edit user can change the clamp and sliding pad

Benefits

Easier modification of pipe support. Users do not need to delete and recreate.

Compatibility Constraints

None

Affected Program

Pipe support package

50. Pipe Support New Clamp definition

Description

A new clamp control is introduced in M2. The main purpose is to give a possibility to control clamp based on pipe system.

First the user can optionally create a clamp control file holding information about clamp creation per pipe system and default clamp type based on the diameter of the pipe.

Next user need to set up clamp definition file which contain real data of clamp such as clamp and nut component and some geometrical data based on the pipe diameter.
Further, the B-offset and E-offset is defined in this file and is used as width margin to decide the edge point of the table member. B-offset is supposed to be used for the bent part and E-offset is applied to a free end

The clamp control file can be omitted and then there is no control against pipe system.

Benefits

A powerful and flexible way to created clamp arrangements with powerful control mechanism

Compatibility Constraints

None.

Affected Program

Pipe support package

51. Pipe Support New Sliding pad definition

Description

The new sliding pad control give a possibility to switch on and off according to the pipe system. Hole creation is also controlled by this new mechanism.

The initial value can be defined in the sliding pad control file and the user can later modify this during modeling.

Benefits

Detailed control of sliding pads is implemented.

Compatibility Constraints

None.

Affected Program

Pipe support package

52. Pipe Support Snip definition

Description

The shape of snip has been improved to meet yard practice. Three snip types are available, type-A, B and C.

Type-A and B has fixed value and the parameter can be defined by the user in snip definition file.

Type -C is a user defined type. The user can define each parameter when adding the snip.

Benefits

Better snip function.

Compatibility Constraints

None.

Affected Program

Pipe support package

53. Pipe Support Hole creation

Description

Holes are automatically created when user set the holes creation option. The holes are created with relation to clamp and sliding pad. Further there is a ZIGZAG option, if this is activated the holes are created in via a zigzag “pattern” on the table member in order to avoid overlapping of clamp components.
This information is not yet displayed in the sketch.

Benefits

Powerful hole creation with less rework is possible.

Compatibility Constraints

None.

Affected Program

Pipe support package

54. Pipe Support manipulate

Description

Parts that are not related to the pipe can be modified with functions like transform, trim, mirror, rotate etc.

Benefits

These functions give user a possibility to change the arrangement of the pipe support.

Compatibility Constraints

None.

Affected Program

Pipe support package