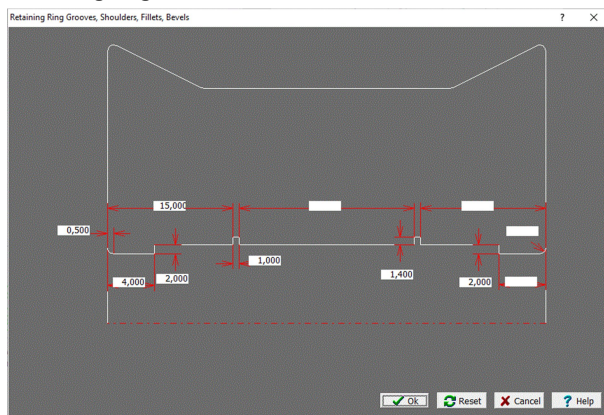


Example: Shoulder and retaining ring notch for mounting a side roll on an axle bolt

What's New? – Rel. 6.4 64bit

Retaining ring notches, shoulders, chamfers, fillets



The bore hole detail configuration window allows to set:

- **Shoulders** at the side faces either right or left with desired width and height.
- **Retaining ring notches** with desired distances from the side faces, width and depth. Optionally, also with distance between each other, if the distances from the side faces are zero. In this case, the retaining ring notches are arranged symmetrically. Also one of the distances from a side face can be specified for unsymmetrical positioning. If only one notch should exist, the second distance is set to zero (see example).
- **Chamfers** with desired width (left input field) or **Fillets** with desired radius (right input field) on both sides.

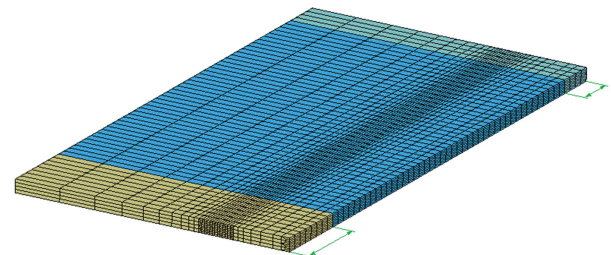
For bore hole details that are not required, simply a zero may be entered in the corresponding input fields.

The bore hole details are shown and exported

- in the drawing area on the screen,
- in the CAD exports by ActiveX, DXF, and STEP in 2D and 3D,
- in the print and plot functions,
- in the NC exports,
- in the roll stock management (option).

Cutting the strip before analyzing the simulation result

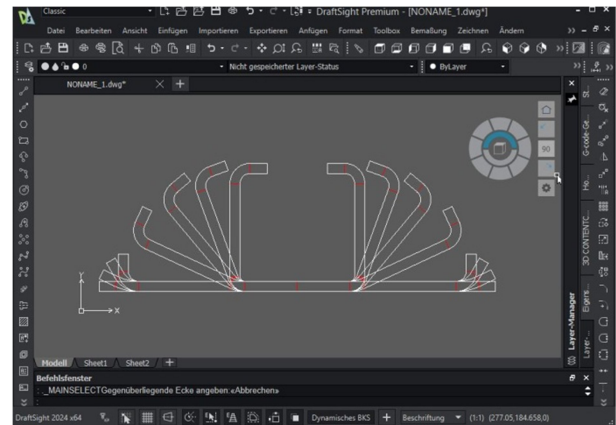
The flat sheet is divided in three parts that will appear as **Parts** in LS-PrePost: The parts at the profile front end and tail end possibly are deformed unrealistically by the node guiding or they are pushed against the rolls in case guiding is switched off. So it is easy to remove the parts at the profile front end and tail end in LS-PrePost before evaluating the FEA result.



The automatic evaluation with the Python script only considers the center part and ignores the parts at the profile front end and tail end.

ActiveX Interface to DraftSight

ActiveX provides the comfortable drawing and 3D-model interchange between the roll form design software **PROFIL** and a CAD system. The built-in interface is available to **AutoCAD**, **SolidWorks**, **SolidEdge** and **BricsCAD**. Now also **DraftSight** from **Dassault Systems** is supported.



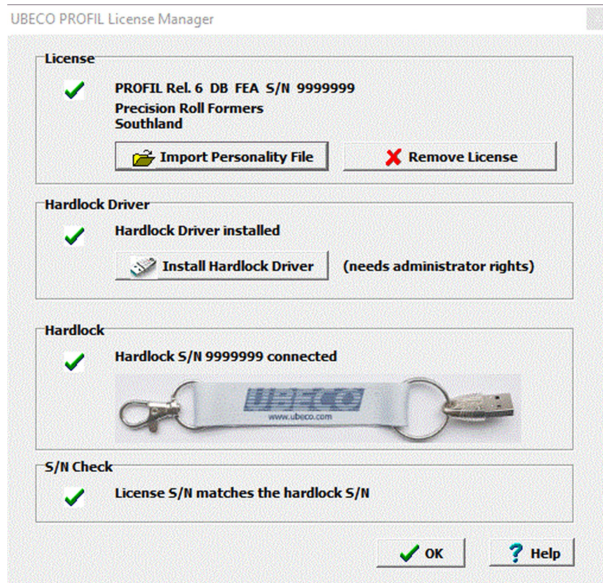
DraftSight is a low-cost CAD system with perpetual license. It is fully DWG compatible and has functions and commands like AutoCAD.

ActiveX is a WINDOWS function that enables programs to control each other and to exchange data among themselves without files.

PROFIL creates profile and roll drawings in the just opened CAD document and imports user drawn profile and roll contours from CAD.

Users of any other CAD system are able to exchange drawings and 3D models via the file formats DXF and STEP.

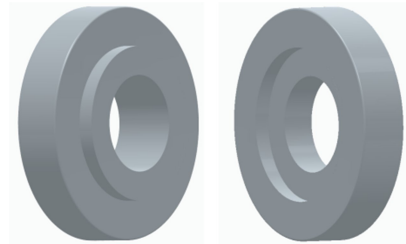
License Manager



Installing **PROFIL** will become much easier with the new license manager. It supports importing the **Personality File**, also in zip-format, and installing the hardlock driver. Then it shows if the proper **Hardlock** is connected (that matches the personality file S/N number) and if the license is properly installed.

More info: www.ubeco.com

Spigot and Socket



This new function adds a spigot or a socket on the side face either right or left with desired width and diameter. This is needed if a roll should run on the shoulder of another roll.

More New Features

FEA Finite Element Analysis:

- Welding with *CONTACT_AUTOMATIC_SURFACE_TO_SURFACE_TIED_WELD_ID is activated again
- Bug fix: Runtime error, if **Guiding horizontal** at the reference point is selected.
- Bug fix: Wrong guiding in case of moving nodes in x direction only and no moving in y direction.

Roll Stock Management:

- Bore hole details like shoulders, retaining ring notches etc. also are saved in the database and shown in the roll drawing.
- Bug fix: By calling **Rolls, Stock Management, Save** all rolls of a stand are saved.

CAD interface:

- SolidEdge: Export of dimensioned roll drawings is possible now.