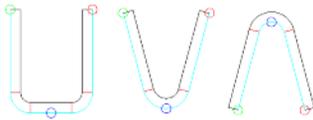The new function **Modify Start Element** enables defining the orientation of the profile in the machine.

What's New? – Rel. 4.8

New snap points for setting the profile reference point in the window Read CAD Contour.

For defining the reference point you can use further snap points by opening the context menu (right mouse button click), if the imported CAD contour has no element breakup at the desired position: **Line Center Point** (left), **Arc Quad Point 270°** (center), and **Arc Quad Point 90°** (right). The picture shows the typical applications.
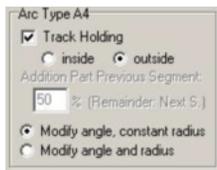

Arc type A4 with modifying angle and radius.

After entering a new angle an input window opens and asks for the desired new radius. Firstly, this method seems to be absurd, because (in sheet running direction) a part of the arc after bending is pressed to flat again. However, the method can be chosen expediently in these cases:

- Existing rolls (with certain angles and radii) should be re-used.

- Spring back should be compensated. This works in the same way as described in **Roll Forming A Folded Band Edge**, see topic "Why doesn't this fold spring up?".

Draft Modus for modifying angles and radii of arc segments without bending or unbending the segments.

The **Draft Modus** switch can be used to toggle between **bending** an arc (while Designing the Flower Pattern) and **modifying** an arc (while Designing the Profile)..
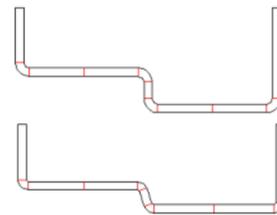
Draft Modus checked: Use this setting while designing the profile, if modifications of the profile list are necessary. You can modify angles and radii of arc segments without changing the corresponding other value and without changing neighboring segments (this means the bending methods A1..A4 are not considered). The straight length and with it the strip width is changed necessarily. The switched-on draft modus is displayed by a changed background color. The draft modus is switched off again automatically if you select another view or if you open another project. The picture shows an example wherein inner radii and angles has been modified in the top cross-section. The bottom cross-section shows the result.

Draft Modus unchecked: Use this setting for designing the flower pattern after designing the profile is finished. By modifying angles and radii of arc segments the arc is bent or unbent dependent on the bending methods A1..A4. During this operation the strip width (the sum of the straight lengths of all profile segments) keeps unchanged. The background of the drawing area has the color that is selected in options, drawing.

Splitting and Joining profile elements (lines and arcs).

The **Split** function splits the marked profile element of type Line (L) or Arc (A1..4) at a desired position in two parts.

Type L (Line): Enter the new length for the marked line. Behind the marked item a new line will be appended with the residual length. The strip width, i.e. the sum of all straight lengths will keep constant during this operation.

Type A1..4 (Arc): Enter the new angle for the marked arc. Behind the marked item a new arc will be appended with the residual angle. The strip width will keep constant if the calculation method DIN 3965 is selected. It will change marginally, if Oehler is selected, because the straight length calculated by the Oehler method is dependent on the arc angle.

The function **Join** joins the marked profile elements of type Line (L) or Arc (A1..4) together with the next profile element in the profile list..
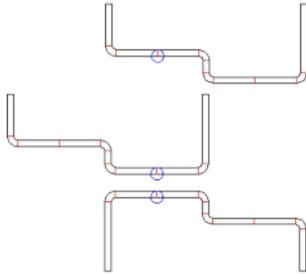
Modify Start Element, for optimizing the orientation of the profile in the machine, also for changing the opening direction.

After importing the profile cross-section, you can use this function to modify the profile element order and to select which profile element should be the first in the profile list. Click on any drawing element of the current pass. The nearest end point is caught.

If you selected a point on the sheet's **bottom side** (more precisely: a point on the same side like the reference point), the profile list will be re-sorted accordingly and turned if necessary. In doing so, the co-ordinates of the reference point X0/Y0 and also the direction keep unchanged. Afterwards the profile with the selected start point will be the first in the profile list. The picture shows an example wherein the function has been applied to the top profile. The center profile shows the result.

If you selected a point on the sheet's **top side** (more precisely: a point on the opposite side of the reference point), the whole profile will be turned by 180 degree first and afterwards the profile list will be re-sorted just like above. If the profile opening was on top previously, it will be now on bottom and vice versa. In the picture the function has been applied to the center profile. The bottom profile shows the result

If you modify the start element of a symmetrical profile list (with symmetrical point PS), the list becomes unsymmetrical (with point P).

**DXF Output: Objects not only organized on layers, but optionally also in blocks.**

Optionally the objects (passes, rolls,..) are not only organized on layers, but the layers are also converted to blocks. Hint: In AutoCAD, blocks are handled easier in all (e.g. moving the whole block). For modifying, however, blocks have to be exploded.

Partial Project Add On and Partial Project Save as.. for combining new profile projects from parts of existing projects.

The function **Partial Project Save as** is useful if a certain part of a project, e.g. the left or right side only, the passes only without rolls, or a subset of the passes should be saved to a file. This can be used for combining a new project from already existing modules by the function **Partial Project Add On**.

The partial project file has the same file format as the project file (*.pro), so you can open, edit, and save it by using the project open and save functions.
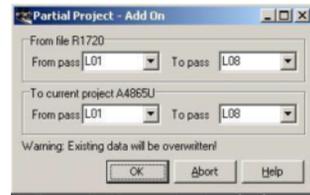
By using the function **Partial Project Add On** you can add such a partial project to your currently opened project. During this operation it is essential that the objects of the added project overwrite the objects of the current project

For the spacers, Output to CAD now creates unique layer names that contain the pass number.

This new function prevents deleting spacers in the CAD drawing, if several stands are transferred to CAD

More info: **www.ubeco.com**