



Software for design and manufacture of stairs

From sales to production

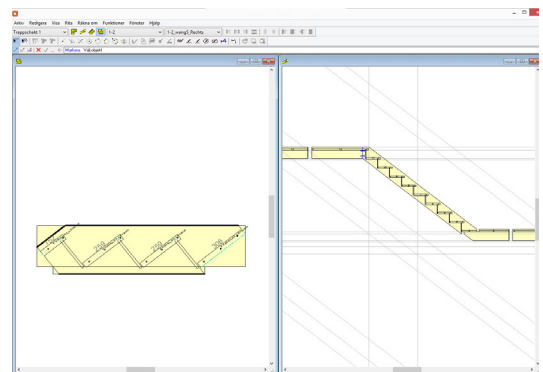
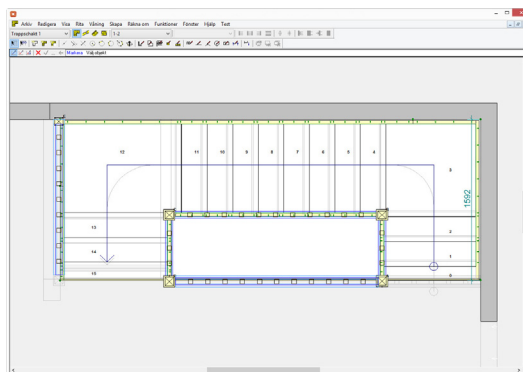
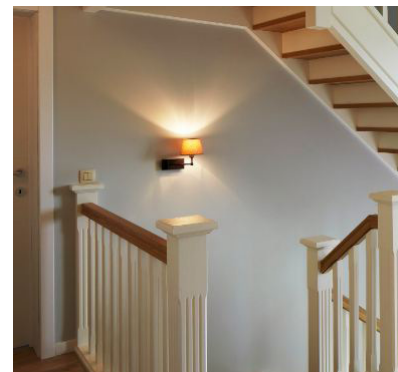
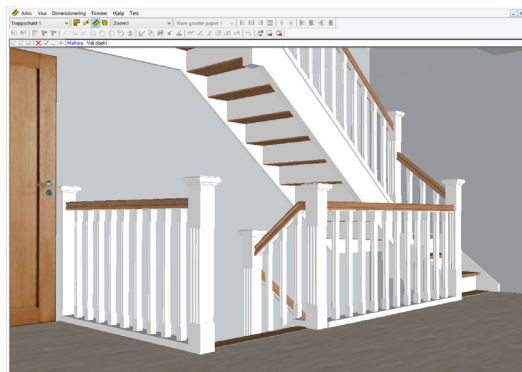


Drömtorppor från Trätrappor

Consultec®
ElecoSoft

Streamline stair production and increase sales

The complete software for stair manufacturers



Easy to use

Technical support is part of the success of any CAD/CAM software. Together with our sales partners around the world we have a strong organization to provide support to our customers. Staircon® is developed by Consultec which is a Swedish business group that has its roots and heart in the construction industry and is owned by the British group Eleco Plc. Founded in 1974 we grew to become the market leader in the development of IT products for the construction industry with more than 17,000 professional users. The idea behind all our IT-tools is to make work easier, more efficient and profitable.

Staircon® is developed for Microsoft® Windows, an environment familiar to most users. The intuitive graphic user interface is well laid-out, easy to learn and easy to use.



Modern technology for advanced production

The first version of Staircon® was released in 1999. Since then it has been our aim to keep Staircon® in the position of being the leading software on the market for stair production. Staircon® is continuously developed because we believe that stair design will continue to evolve and that new production methods and modern technology will continue to advance innovation.



Staircon® Sales

Design and sales

Staircon® Professional

Production full-scale
drawings

Staircon® Showroom

Web 3D catalogue

3D export COLLADA
and o2c

3D export COLLADA
and o2c

Pricing

Pricing

DXF export



Staircon® CAM 3/4 axis

Link to CNC machine

Staircon® CAM 5 axis

Link to CNC machine

Staircon® CAM 5 axis+

Link to CNC machine

Fixture positioning

Fixture positioning

Fixture positioning

Tread split

Tread split

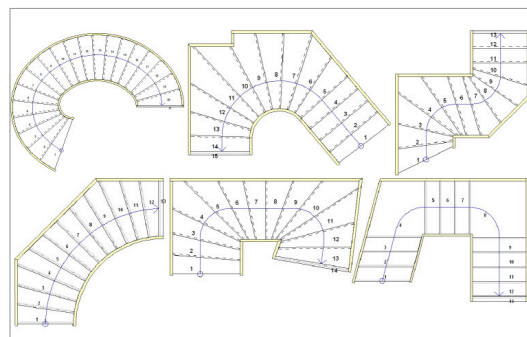
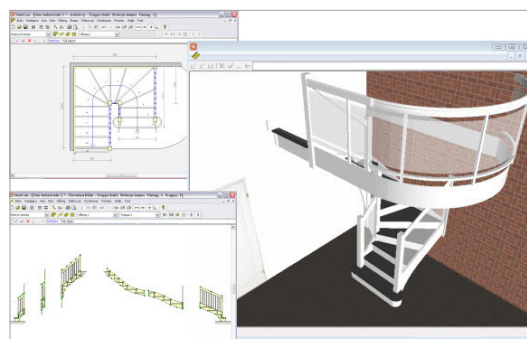
Tread split



Staircon® Sales

Make a selling design

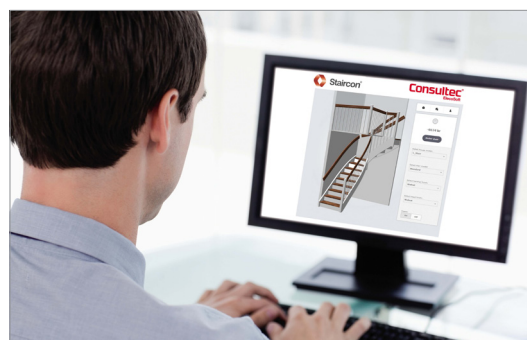
The staircase is designed in three views; Plan view, side view and 3D view. The 3D view is a tool while designing and during the presentation to the customer. Guides with predefined stair shapes are used to quickly draw the most common staircases. They can be modified into any shape. There is no limitation as to the number of stairs, floors or stairwell openings that can be designed in one single project. Free design of floor balustrades, openings and walls. Measurements of the stair can be placed automatically and the stair's compliancy to chosen code (headroom, step height etc) is easily tested. Scaled printout drawings of plan-, side and 3D views are quickly generated.



Staircon® Showroom

Always open to visitors

Instead of paper printout and flat PDF files, the range of products are displayed with a web based catalogue where the customer can pan, zoom and rotate the stair. Not only can the customer easily select different options on for example material and finish to see the result in 3D, they also have a good understanding of what the stair will look like when finished. A number of predefined stair geometries are generated using the Staircon database. Used in combination with the add-on module Pricing, there is an option to display the price of the stair as well.

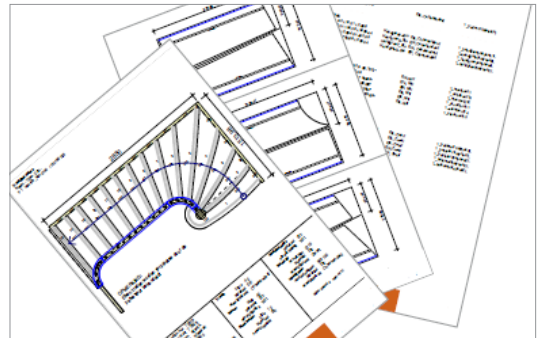
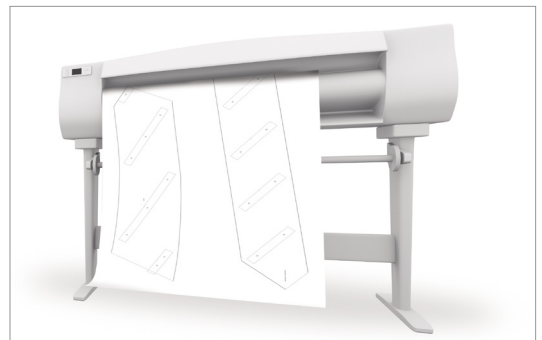


Staircon® Professional

Prepare with the push of a button

With Staircon® Professional, in addition to the design capabilities you get a tool for the work preparation. The following can be carried out in an effective and well coordinated way:

- Generate production data with material optimization
- Full size print of production details
- Scaled production drawings
- Bill of materials
- Print the plan view scale 1:1

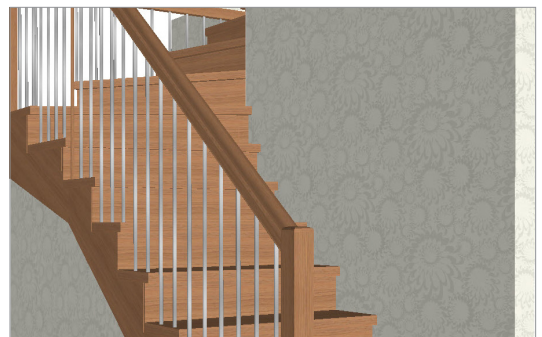


Staircon® Limited

For the basic stair shapes

Staircon® Limited allows the functionality of Staircon® Professional, but with some restrictions. Some examples of what is not enabled:

- Spiral or S-shaped stairs
- Arc strings/handrails/floor openings
- Round posts
- Stair with Z-risers
- Curved front edge on treads/steps
- Restricted from sharing projects with Staircon Sales or Professional





The steering power behind your CNC production

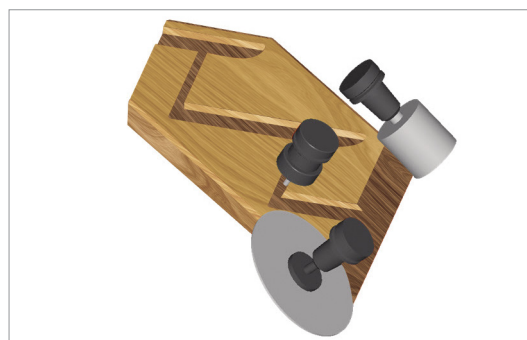
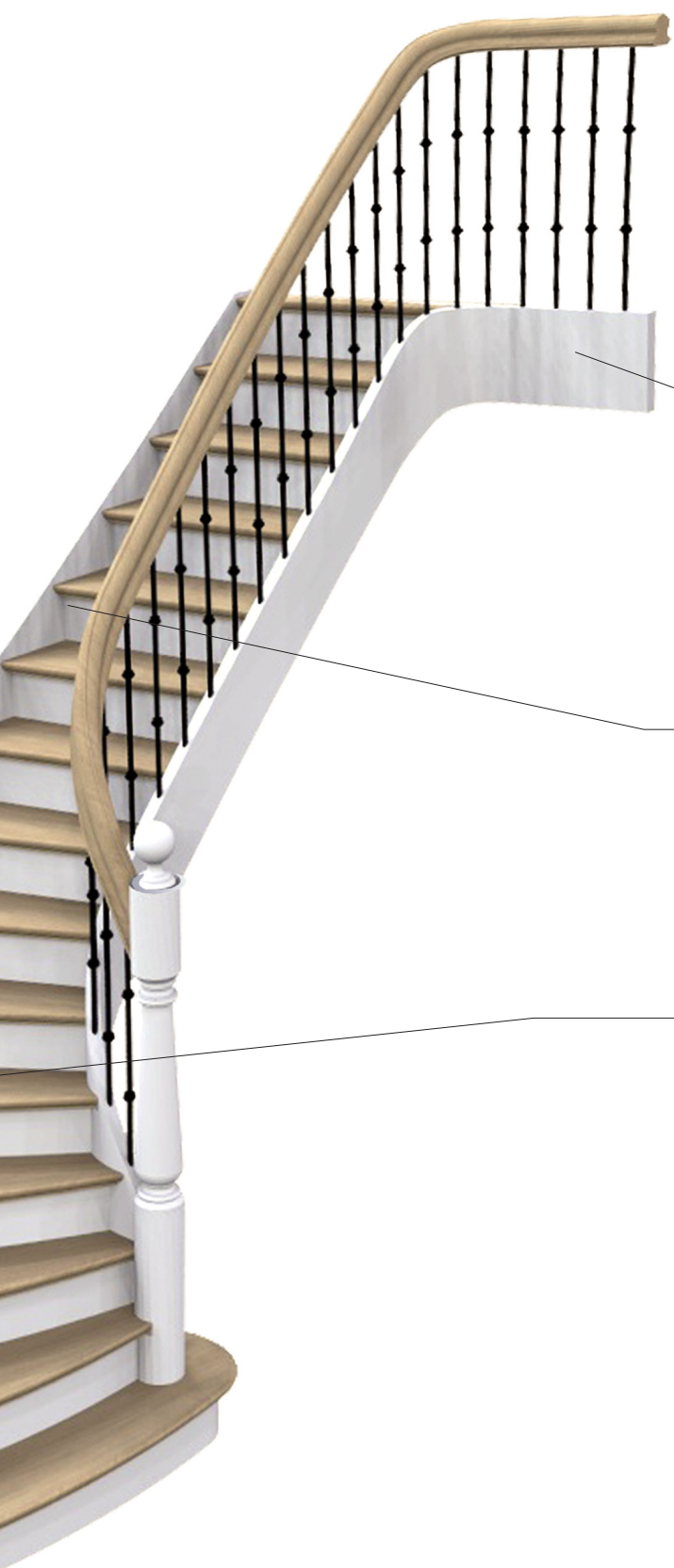
Manage with full control

Staircon® CAM is available in three levels. Depending on your machine and production options you can choose Staircon® CAM3/4 Staircon® CAM5 or Staircon® CAM5 +. Configuration and managing functions are accessible in all versions. The day-to-day work is done in one single view showing everything from the initial project to the finished CNC file. The simulation of tool paths and/or CNC code visualized in 3D provides a good understanding of what the generated CNC program will ultimately do. Multiple intervention points are possible to trace and analyze, down to each individual coordinate point. Staircon® CAM is offered with the add-on module Edit database to allow access to the Staircon® database.

Optimize production flow

Multiple Staircon® production files can be processed simultaneously offering the advantage of processing details from several projects at a time and optimizing table layouts for details. The system can be setup to run several machines and distribute the stair details among them according to a set of rules. Informative reports offer help to operators with for example a post rotation scheme.







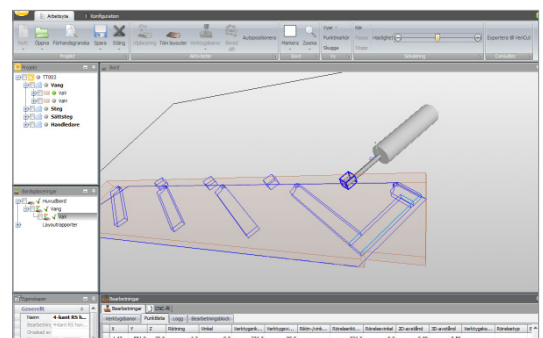
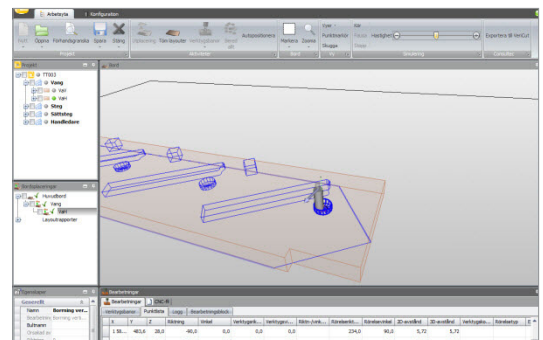
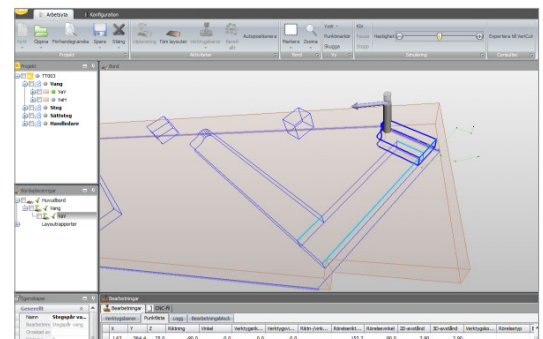
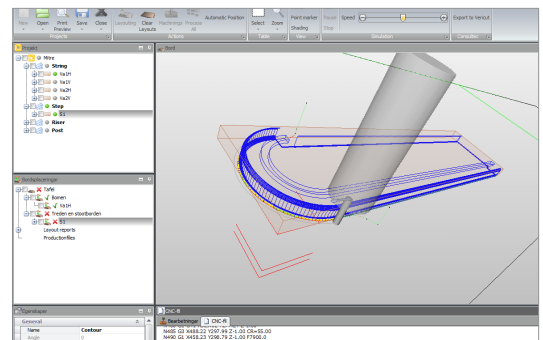
Staircon® CAM 3/4

The power of automated production

Examples of machinings:

- Drillings and pockets with automatic tool selection
- 3 or 4-axis riser pockets and step pockets
- Contour and profiling with general arc recognition functionality to output arc commands (G2/G3) in order to provide a smooth result
- Helical and interpolation drillings
- Sawing (4-axis)
- 4-axis mitres

Functionality may vary due to machine limitations.



Staircon® CAM 5

The perfect match, in every angle

Excluding arc details and stairs with Z-risers

Examples of machinings

- Including functionality of StairCon® CAM 3/4
- Angled drillings and riser pockets
- Mitres
- 5-axis tenons
- 5 axis drillings

Functionality may vary due to machine limitations.

Staircon® CAM 5+

Sweeping curves and sharp Zs

Including arc details and stairs with Z-risers

Examples of machinings

Includes functionality of Staircon® CAM 5.

Arc string

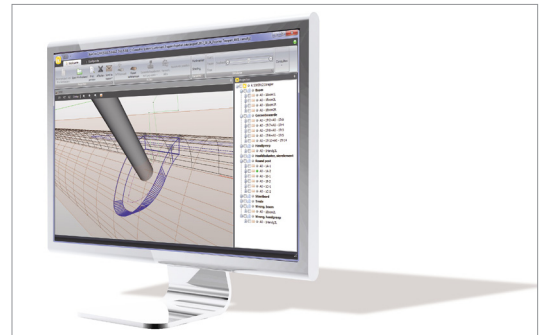
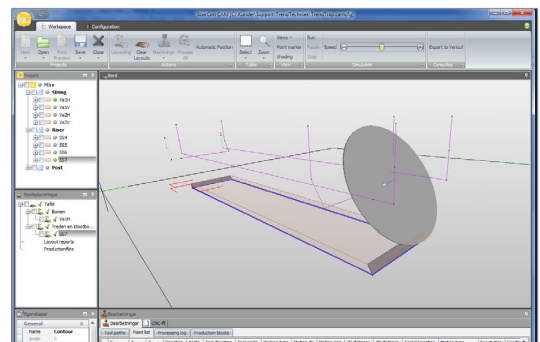
Arc handrail

Arc handrail together with arc string

Groove for underside of arc handrails

Production of stair with Z-riser (also using saw)

Functionality may vary due to machine limitations.



CAM add-on modules

Optional functionality in addition

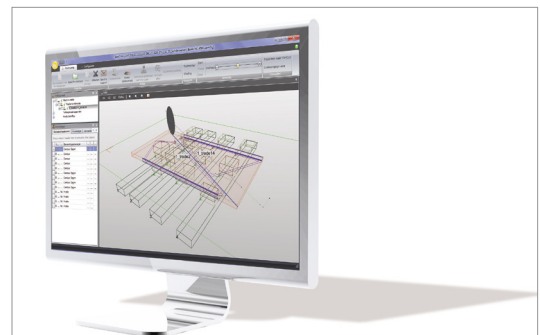
Fixture positioning; automatic positioning of beams and pods to hold the pieces on the work table. Output as laser file, led or motorized positioning of beams/pods.

Step split function; for machines that can split steps or popup fixtures.

Barcode; Enables use of a bar code reader to pick up the right laser or CNC programs. Customization depends on actual system.

Staircon® CAM operator; an application that opens NC code and laser files generated in Staircon® CAM and transfers to machine/laser.

Functionality may vary due to machine limitations.



Add-on modules

Export 3D file and send to customer

Instead of showing the stair with images, a 3D file can be sent to the end customer for viewing. This has been a much appreciated sales tool for our users. Staircon 3D export comes with options for two different formats.

Collada (open standard format) is rich in detail. The end-customer can view the COLLADA 3D in applications that supports *.dae, there are several free options. The format is also importable in several rendering software and some 3D CAD packages, for example SketchUp and AutoCAD via a converter.

o2c format is viewed with the o2c player (free).



Export 2D file, DXF

Output dxf from plan view, side view and production details. The production files can be exported to separate files and/or separate layers for later processing in external CAM system.



Edit database

The power of a software can only be experienced if it is tailored to your own needs and methods. With this add-on module the database can be accessed and edited continuously by the user. Some examples of data:

The stair model; In order for the design of the common staircases to be quick, a model is applied to the stair. The model has predefined settings for the construction and production methods, for example step distribution, type of posts and balusters, thickness of strings and steps etc. All of this can of course be adjusted after the model is placed to meet specific customer requests.

Stair parts; posts, balusters, strings etc

Material and finish

Textures for walls, doors, floor etc

Profile ID; which carries information to StairCon CAM about how the machining shall be made



Pricing

Design a stair, press a button and get a calculated price for the stair. The price is set for the stair parts, for example steps, posts, balusters, handrails etc. The price is separated into two; one for the part and one for applying finish to the part.

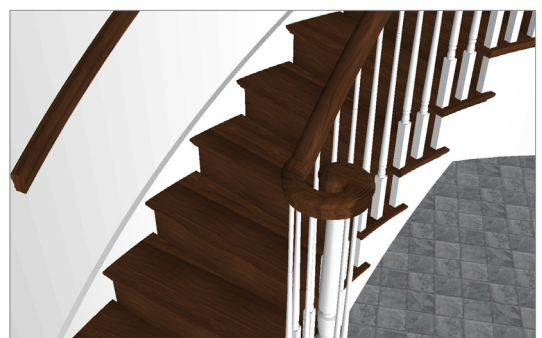
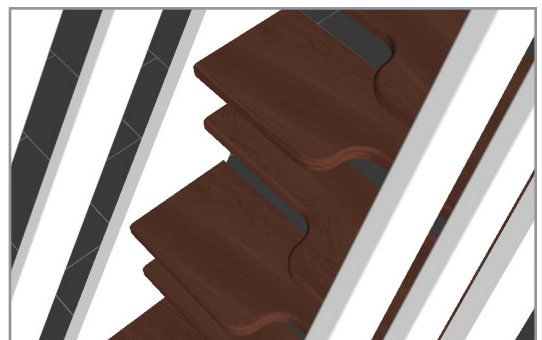
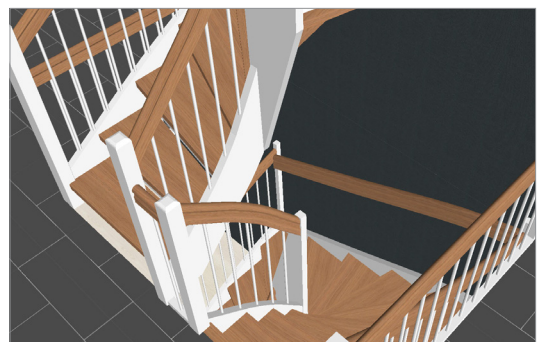
Pricing is offered with the add-on module Edit database to allow access to the Staircon® database.

Generate CAM data

Enables a Staircon® professional user to create production file (PRX) for Staircon® CAM. This way multiple users with Staircon® professional level (designers) can generate prx files to one or more Staircon® CAM users.

ERP

Enables import and export of data from/to ERP systems. Customization is mandatory and depends on actual system.





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