

SOFTWARE FOR DESIGN AND
MANUFACTURE OF TIMBER STAIRS
EASY TO LEARN
MODULE SYSTEM

StairCon



THE COMPLETE SOFTWARE FOR TIMBER STAIRCASE MANUFACTURERS

Increase the staircase production efficiency, resulting in lower costs. Utilize a great sales tool with 3D-vizualisation and price calculations resulting in higher sales. Easily use the great flexibility in staircase design. Generate production data such as production lists, production drawings, full-scale print-outs, export of DXF or direct link to 3-5 axis CNC machines.

INCREASE THE STAIRCASE PRODUCTION EFFICIENCY

With the use of a single project-file structure, StairCon® enables efficient production coordination from start to finish, same file throughout the entire process from design to production. StairCon® turns overtime into time left over and turns overhead into profit.

THE COMPLETE DESIGN AND PRODUCTION TOOL FOR TIMBER STAIRCASES

Great flexibility in staircase design, 3D visualization, price calculations, production lists, production drawings, full-scale printouts, export of DXF and o2c (3D), link to 3-5 axis CNC machines.

EASY TO LEARN

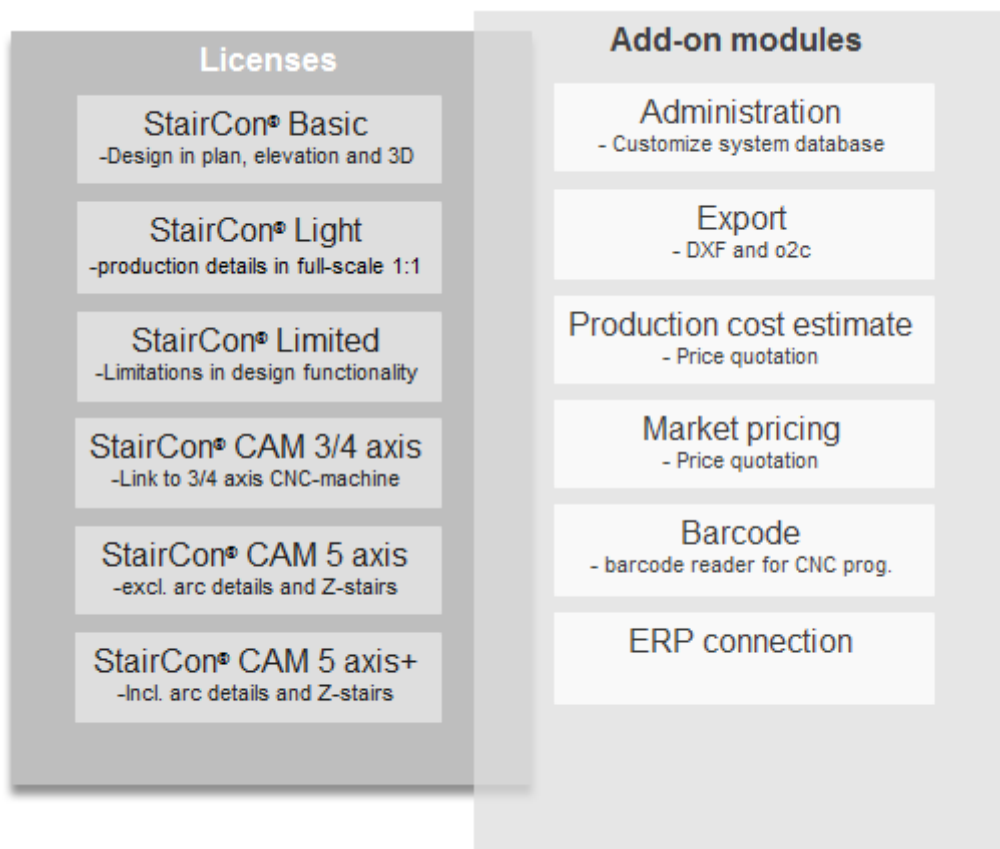
StairCon® has been developed for Microsoft Windows®, an environment familiar to most users. StairCon's intuitive graphic user interface is well laid-out, easy to learn, and easy to use.

DEDICATED SUPPORT

Expert technical support is critical to the success of any CAD/CAM software. In order to meet the needs and requirements of today's stair manufacturing market, StairCon is continuously developed by our team in Sweden. Together with our sales partners around the world we have a strong organization to provide support to our customers.

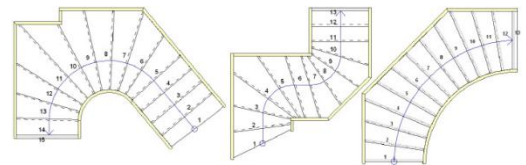
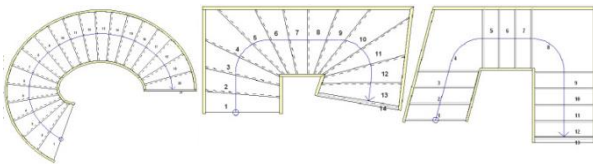
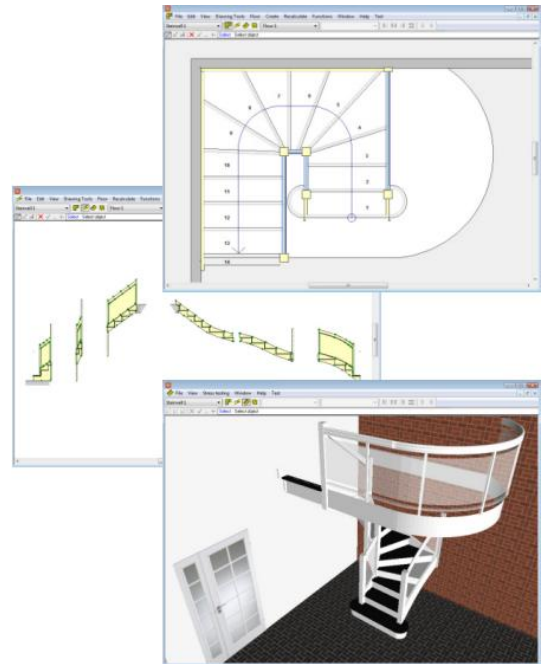
MODULE SYSTEM TO FIT THE NEED OF EACH CUSTOMER

StairCon® enables customers to purchase capabilities based on their current needs and as the business grows more functionality can be added. Innovative software solutions enhance the field of sales, presentation and production.



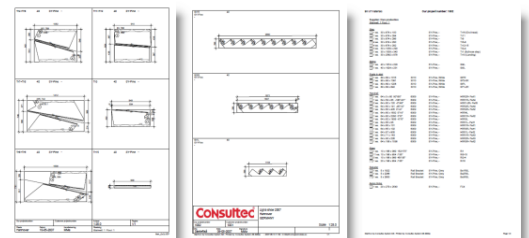
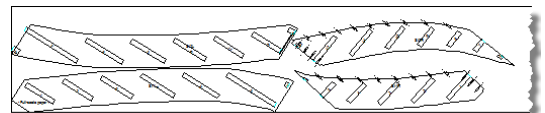
StairCon® Basic

Enables design of staircases in plan- and elevation view. The stair can be viewed in 3D to aid designing and to present design options for clients. Predefined stair shapes available in quick guides are used to quickly draw the most common staircases. The predefined stair shapes can then easily be modified into any shape. In StairCon®, there is no limitation as to the number of stairs, floors or stairwell opening users can design in a single project. Railings/balustrades can be drawn for both staircase and floor. Automatic dimensioning of the stair and test of stair measurements (headroom, open measurement etc) according to chosen standard code can easily be made. Scaled printout drawings of plan, elevation and 3D view (not full-scale 1:1) can be generated. All printing within StairCon utilizes standard Windows® drivers. StairCon® Basic is typically utilized by sales personal to assist them in the selling process of staircase.



STAIRCON® LIGHT

Includes functionality of StairCon® Basic plus: Generate production data with material optimization. Gives access to print production details in full-scale 1:1. Bill of materials list and scaled production drawings can also be generated.



STAIRCON® LIMITED

License for less advanced stair geometry shapes. StairCon® Limited allows the functionality of StairCon® Light with some restrictions, the following **cannot** be designed in StairCon® Limited:

- Spiral or S-shaped stairs
- Arc strings/handrails
- Stair with Z-risers
- Curved front edge on treads/steps
- Function split string
- Fillet function
- Plan view 1:1 printout



STAIRCON® CAM 3/4

StairCon® Light plus direct link to StairCon® CAM and 3-4 axis machine.

Intuitive user interface

StairCon® CAM has an intuitive graphic user interface making configuration and managing functions easy to use. 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 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.

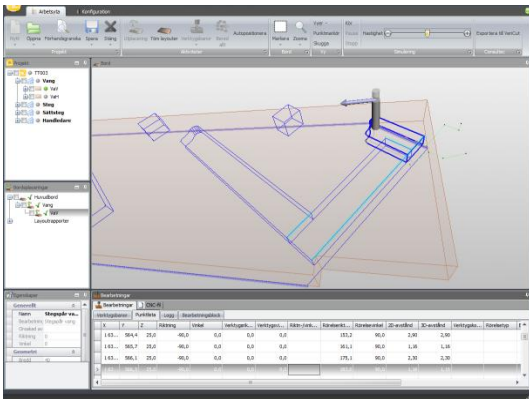
Production flow

Multiple StairCon production files can be processed simultaneously offering the advantage of processing details from several StairCon 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 great help to operators with for example post rotation scheme.

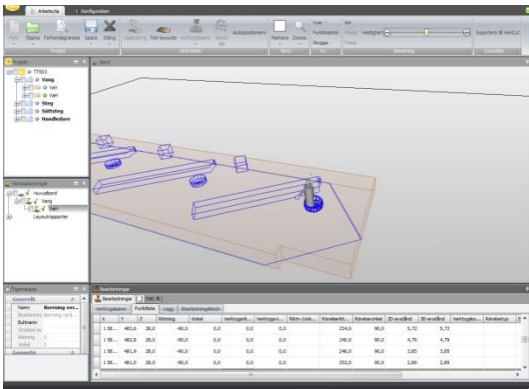
StairCon CAM 3/4, some examples of machinings¹⁾:

- 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 smooth result
- Helical and interpolation drillings
- Sawing (4-axis)

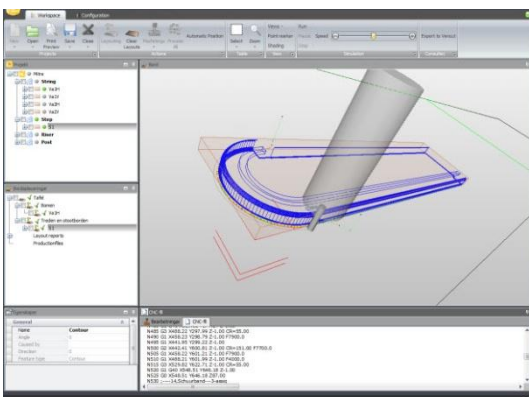
This license requires add-on module "Administration".



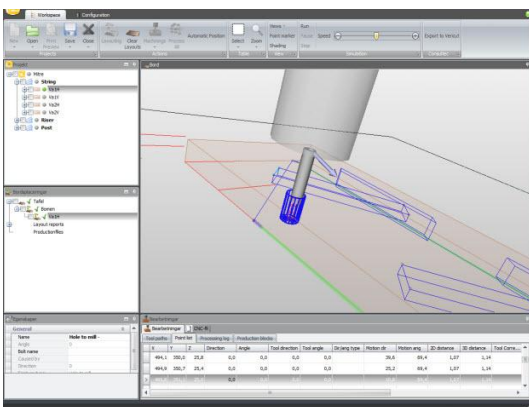
Step pocket



Interpolation drilling

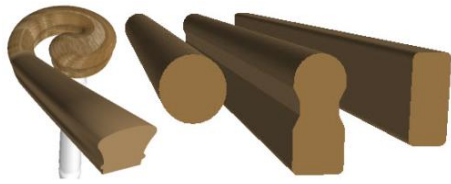


Contour with radius



Helical drilling

1) Functionality may vary due to machine limitations.



ADD-ON MODULES

ADMINISTRATION

With the add-on module “Administration” the stair manufacturer can make adjustments in the system database, adjusting “models”, creating new materials and finish etc. A “model” is applied to each stair designed in StairCon in order to quickly design the most common stair cases. 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. *This module is required for StairCon® CAM 3/4,5, as well as for the add-on modules production cost estimate, market price and StairCon® WEB.*

MARKET PRICE

Set a price for parts of the stair, for example steps, posts, balusters, handrails etc. The price can be set depending on different factors, for example material, model etc. Set a price for applying finish to the stair details. Design a staircase, press a button and get a calculated price for the stair. Input data for Market price is relatively fast to setup. *Customization requires 1 license with add-on module “Administration”.*

PRODUCTION COST

Production cost of stair is based on type of stair detail, material, finish, labor time for different details etc. Compared to Market price described above, this module is a more detailed pricing based on the actual cost to manufacture the stair. Design a stair case and press a button to create a quotation based on the cost. Price is calculated adding gross commission, profit margin and VAT. *Customization requires 1 license with add-on module “Administration”.*

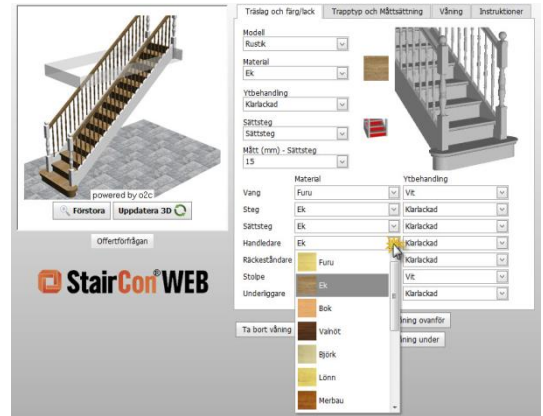
EXPORT

This module enables the export of drawings to other formats:

- DXF (2D) can be exported for plan view, elevation view and production details. The production details can be exported to separate files and/or separate layers for later processing in external CAM system.
- O2C, the file can be sent to the customer by email to show the stair in 3D. See examples below. O2c is not supported for 64 bit operative systems.
- VRML for 3D visualization.

STAIRCON® WEB

Internet is an important marketing tool; For clients that what to utilize this to the fullest potential, StairCon® WEB provides an online stair design tool that can be linked to the stair manufactures website, enabling visitors the ability to design their own staircase and submit a Request for Quote (RFQ). Customers design a staircase using predefined stair types, models for design and material/finish selection. The available design selections are based on the stair manufacturers StairCon® database. The stair can be viewed in 3D (o2c format) and request for quotation can be sent to the company. With the quotation the company also receives a file that can be imported to StairCon® for further editing. *StairCon® WEB requires 1 of the licenses and administration module.*

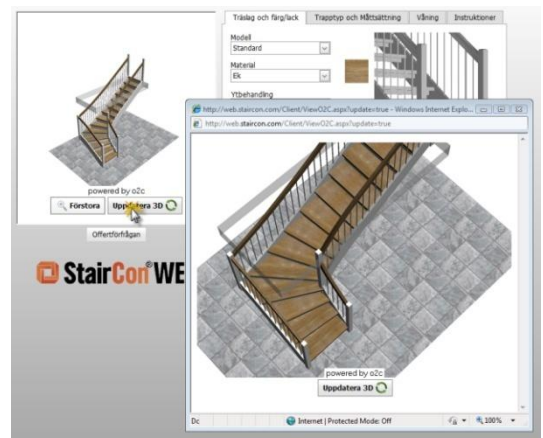


BARCODE FOR STAIRCON® CAM

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

ERP

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



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