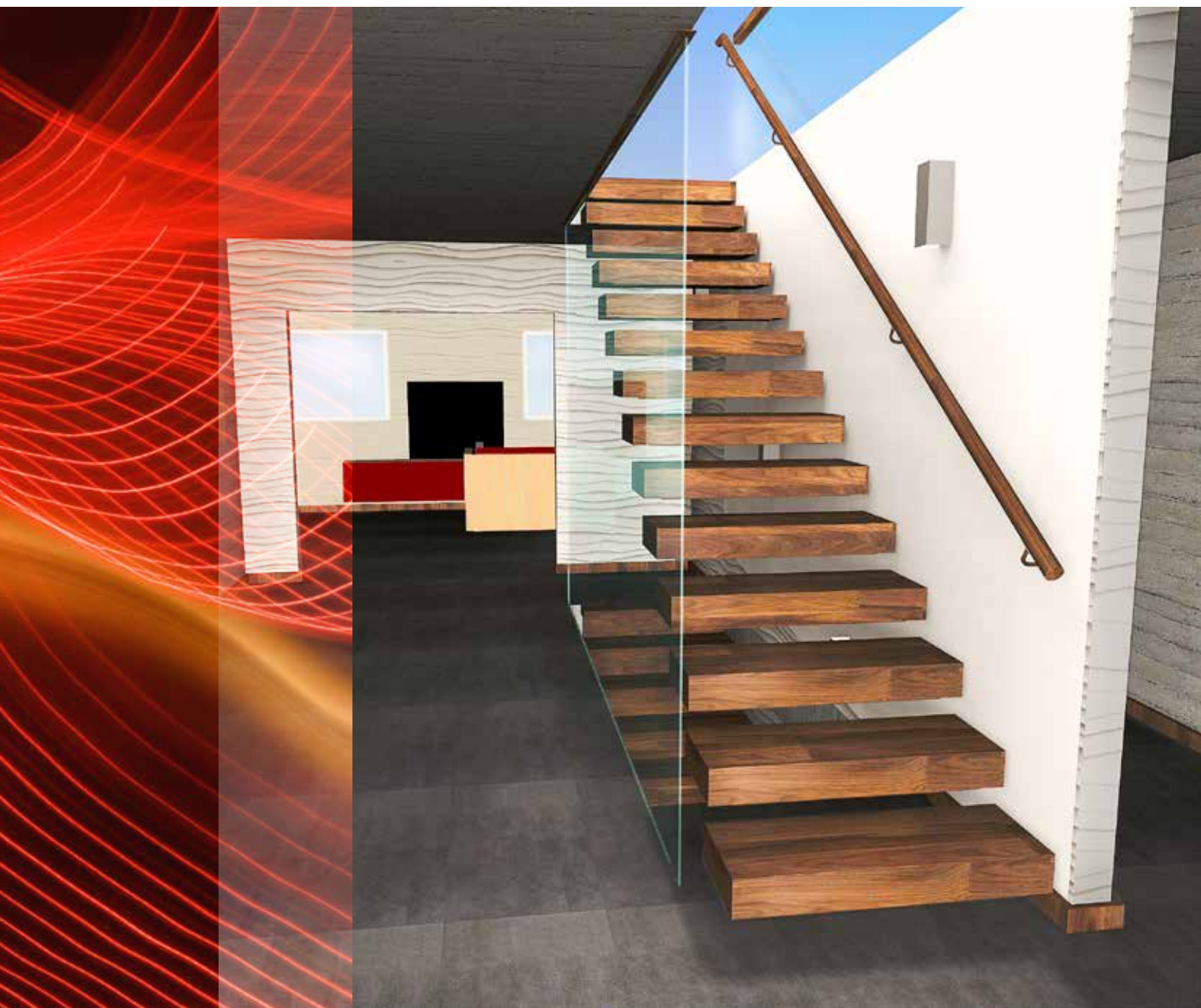




**Compass  
Software**

# **CAD/CAM COMPLETE SOLUTIONS FOR STAIRCASE MANUFACTURING**



# COMPASS SOFTWARE

Compass Software ranks amongst the leading providers of software for timber and staircase construction world-wide. We are experts in the field of CNC connections to all common machines. For more than 30 years, the company has been delivering innovative solutions to customers from more than 30 different countries. Our customers range from small businesses to large-scale industrial manufacturers. Nearly 3000 customers have profited from our advanced expertise and extensive know how so far.

The Compass Software brand has represented innovation and advancement of technology from the get-go. Compass Software's company history is closely related to developments in the fields of PCs, manufacturing machinery, and technology in general. The company's founders have always had visions ahead of technology's advancement, which is why the company continuously manages to be a leader in the industry. 30 years of experience and the eagerness to innovate is what transport our customers into the future, increases their efficiency, and ensures that they are able to use the most advanced technologies in their workshops.





# OUR EXPERTISE IN THE FIELD OF STAIRCASE MANUFACTURING

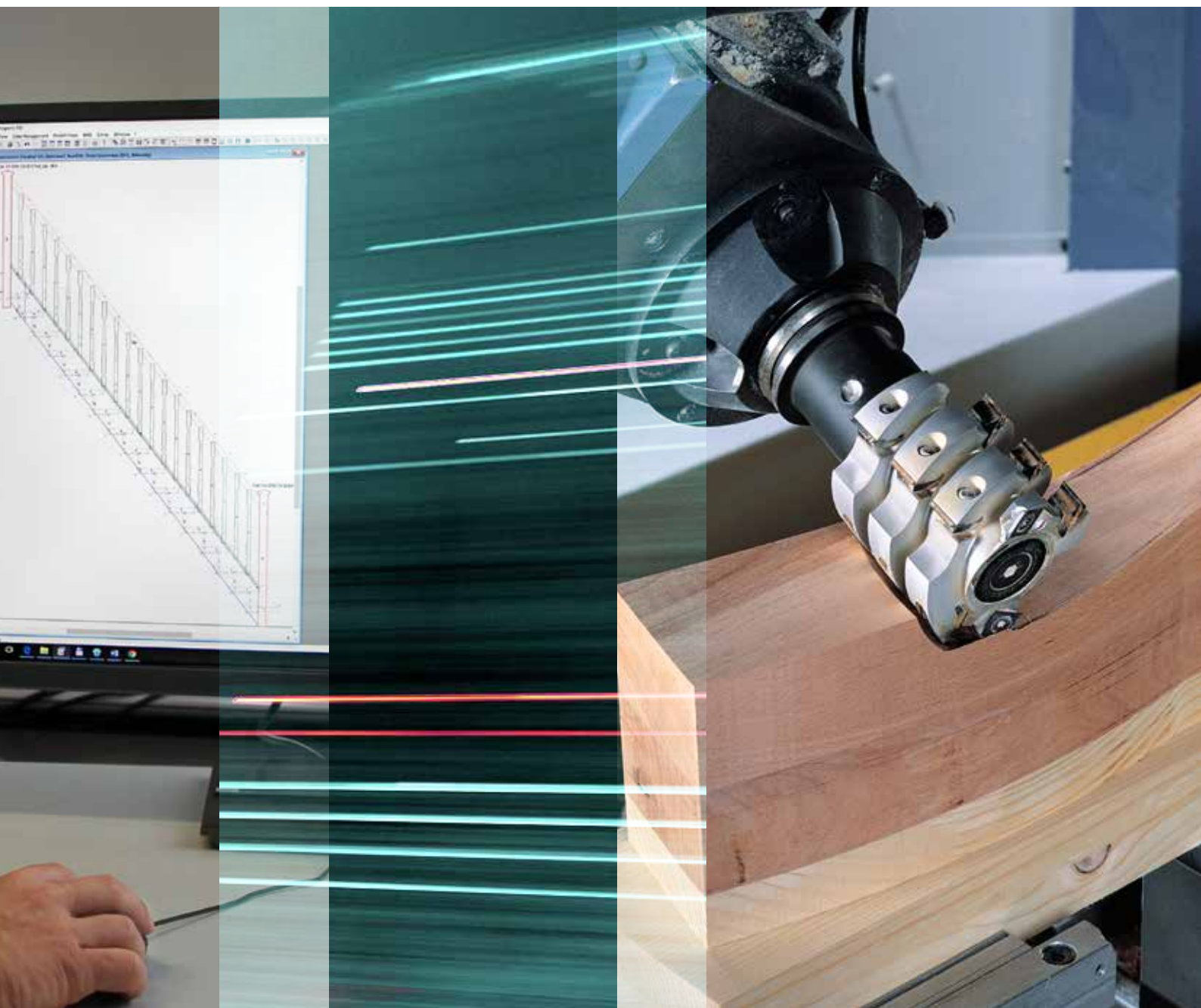
## Staircase Manufacturing

Our integrated software package is designed to control and manage the entire staircase manufacturing process. We cover everything from the construction and visualisation of staircases to the production on the machine. We are experts in the field of CNC connections. We have been implementing fully operative connections to our CAM software since 1983, and since 1987 we have even been connecting five axis, fully interpolated milling machines for staircase handrails and stringer wreaths. We offer connections to all machining centres from all established machine manufacturers.

Developing unique additional solutions to satisfy user-specific hands-on needs are our specialty.

## Consulting

We will professionally analyse customer-specific business processes and will develop hands-on strategies for the rationalisation of procedures. The implementation of our recommendations optimises procedures and leads to a noticeable reduction in workload, saving of time, and a significant increase in efficiency for our customers.

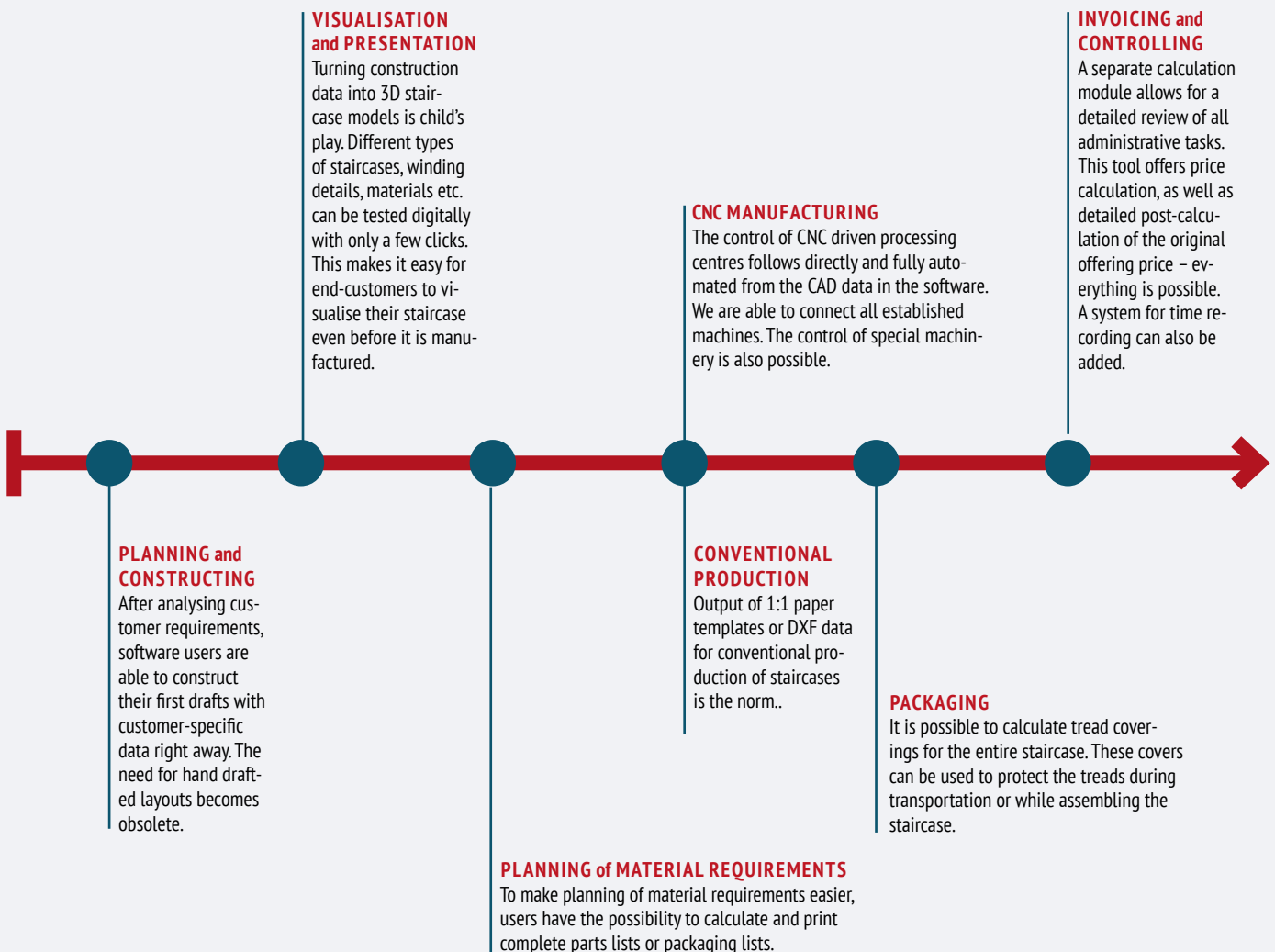


# OUR CAD/CAM SOLUTION IN ONLY ONE SOFTWARE

Our integrated complete solution makes it possible to transfer everything that results from the planning process and construction on the computer directly to the machining centre.

The entire manufacturing process – from designing, constructive planning, showcasing designs, management of incoming orders, planning of material requirements, organisation of production, output for conventional production or control of manufacturing machinery, as well as creation of invoices, is managed in only one common system. This solution saves tedious data management and maintenance of different systems and lowers expenses for training and support. The homogeneous and user friendly utilisation of only one software leads to more efficiency and saves time.

CNC control follows automatically from the construction CAD data with point-and-click ease. The software packages are built through a combination of modules, which ensure flexibility, make them adaptable to different demands, and create individualised solutions. This software concept is future-proof.



# DETAILED CONSTRUCTION OF ALL COMMON STAIRCASE TYPES

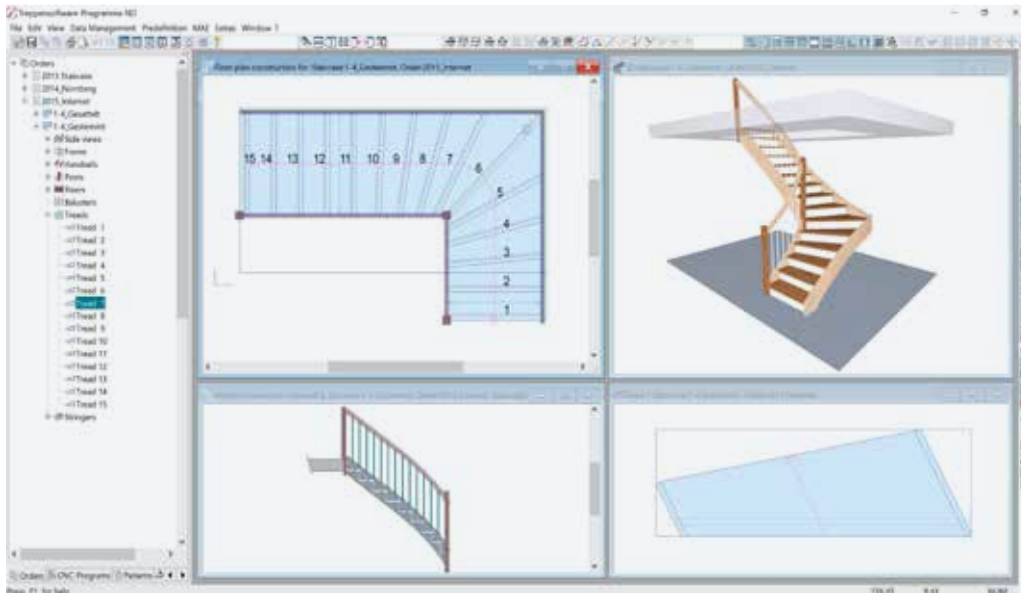
The utilisation of staircase construction software leads to an enormous increase in efficiency for small and big stair builders. The CAD part allows for almost endless variation possibilities. Users are able to input the properties of the construction site, such as walls, windows etc. and then are free to try many different designs. All changes are possible without having to draw a completely new staircase. Changes can be done and undone interactively and visualised in 3D at the click of a button. Construction has never been easier. And once the design has been finalised it can be processed further in the same software for CNC production, exported to other systems, or printed as 1:1 paper templates for manual production.

- Seemingly endless variation possibilities
- Special staircase types, such as bolted staircases, folded staircases, spiral staircases, space-saver staircases etc.
- Construction of building projects (multi-storey)
- Material mixes (wood, stone, glass, metal etc.) possible
- Positioning of different LED lights
- Interchangeable details, such as baluster types, hand-rail types, tread profiles etc.
- Individualised construction environments, adaption to construction site
- Changing and recalculation of drawings in seconds

Compass Software makes it possible to design entire staircase constructions that extend over several storeys, including balcony railings.



Different kinds of banisters and posts are possible. Users can even make use of material combinations such as glass and stainless steel.



Users are able to switch between different views easily, from drawings, to detailed looks at individual parts, height construction, and 3D view. Winding details, tread positions, handrails, balusters etc. can be changed at the blink of an eye.

Each staircase type can be constructed individually for all winding details by choosing the respective predefinitions: straight, winded, or shape glued..





## VISUALISING AND SHOWCASING

The professional high-end photorealistic 3D visualisation tool is the perfect sales pitch for your field sales. Inclusion of doors, windows, decoration etc. will bring the staircase to life for your customers, so that they can easily imagine the finished staircase in their own home.

- 3D display in the “virtual showroom”
- Powerful demonstration tool for field sales, incl. offers, order confirmations etc.
- Zooming, turning, and moving of the staircase into all directions online
- Photo-realistic 3D visualisation as a high-end add-on, incl. the creation of realistic daylight illumination



Daylight illumination and the addition of individualised details create a realistic photo-like picture of the finished staircase, which will convince your customers easily.

We always utilise the newest technology. Experience virtual and augmented realities with Compass Software.



## STAIRCASE CONFIGURATOR

With the staircase configurator, you are not bound to your work desk. Take the opportunity to design the staircase together with your customers on any device. All you need is a working internet connection. Best of all, the data can be used directly for CNC-production.

- Simply use your browser to construct and display three dimensionally without having to install the software.
- Online from any terminal in the world – PC, Notebook, Tablet, or Smartphone
- Interactive editing with specific end-customer data
- Immediate visualisation of all different materials
- All data can be used directly for production
- Versatile possibilities for sales and end-customer



Just like the program on the computer, the Staircase Configurator allows users to easily change details and view their staircase in 3D. Your customers will love being an active part of the planning process.

## PLANNING AND ORGANISING

Compass Software integrates several tools for the administrative aspect of the stair building process, which overall save time and increase efficiency. All steps are integrated into the software, which ensures the smooth transfer of all CAD data to the calculation tools, parts lists, templates, customised forms etc.

- Price calculation, incl. detailed post calculation
- Free creation of forms for different purposes (e.g. ordering of construction parts)
- Detailed output plans, 1:1 output
- Complete parts lists; packaging lists
- Interface to other systems, such as accounting and ERP

## CNC CONNECTION AND PRODUCTION

The connection and control of CNC machining centres is one of Compass Software's core competences. We support small businesses as well as industrial manufacturers and have experiences in setting up fully automatic production chains. All customary machines can be connected, as well as specialty machines.

- Connection to all common machines with up to 5 controlled axes in one head
- Data transfer directly from the construction software, no need for additional software
- Automated positioning of clamping devices and vacuum cups
- Complete tool management; multi-table arrangement
- Complete barcode processing / barcode scanning
- Nesting (simultaneous material saving)



Stair builders without CNC machinery can still enjoy the advantages of Compass Software's CAD modules. Designs can be printed on 1:1 templates for manual production of staircase parts.



Barcode control throughout the whole process, leads to more efficiency, easier administration, and facilitates nearly fully automatic manufacturing..

Nesting and plate optimisation tools save time and materials, which can lead to an enormous increase in efficiency and reduction of costs.



Users are able to create customised forms. Pictures, columns, values, and even the corporate design can be changed to fit the customer's individual needs.

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