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Formteile aus Holz und Kunststoff

#### CAD/CAM system

- High performance CAD system
- Creation of 3D surface and 3D volume models
- 3D digitalisation of prototypes
- Creation of CNC programs and all pressing tools, workstation models, gluing and checking appliances using the latest CAD/CAM software based on 3D-CAD models

#### Technical Data

- 3 production lines for producing rotary-cut veneers
- Various compression moulding techniques: 56 electric, high-frequency radio wave and steam-heated presses
- 10 state-of-the-art CNC processing centres with up to 5 NC-controlled axes, offering a total of 48 workstations
- Production of our own moulds and appliances
- Large hall for assembly of the cabinets
- A combination of modern gluing systems guarantees airtight gluing of the cabinets and chambers
- Polishing stations with modern equipment
- 2 spraying cabins with spraying equipment for processing different varnishing systems
- 1 continuous drying channel

OWI loudspeaker cabinets 04.15 E



Development/prototype construction/serials ■

In-house development of machinery ■

Objective selection of materials ■

## LOUDSPEAKER CABINETS ■

CNC production ■

Assembly and varnishing ■

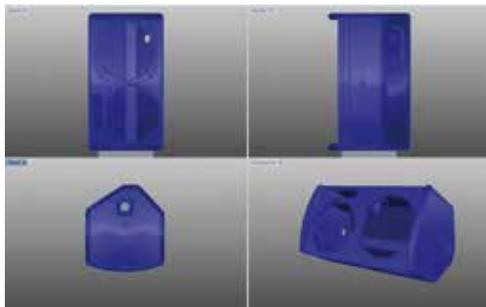


## Cabinets with curves – for sophisticated looks and outstanding acoustics

Our cabinets are masterpieces of technical precision. They are the basis of your loudspeakers and set new standards both aesthetically and acoustically.

In 1997 we played a substantial role in the development of the cabinets for B&W's Nautilus 800 series. Since then, we have made a name for ourselves as a manufacturer of these curved loudspeaker cabinets, made of the finest materials and cause of such furore in the audio world. As a manufacturer we support you right from the design stage. Drawing on many years of experience, we build the pressing tools and appliances ourselves in our own workshop, and are able to advise you on the best materials to use.

As well as plywood of our own production, we process MDF and high-end veneers, but also Alpi or other special high pressure laminates.



## Our in-house manufacturing of veneers Presses and CNC processing

Our rotary-cut beechwood veneers are produced on a total of 2 of our own peeling lines in Hungary. We rely on regional and significant beechwood forests to feed each of these. This means we are able to generate a high net product, and that we have quality control firmly in hand for our customers' products right from acquisition of the basic raw material.

On around 60 presses, various compression moulding techniques are used. Depending on the moulded component, the plywood is heated electrically, by high frequency radio wave or by steam. Our know-how in this field guarantees that joints are sealed as required, something that can only be achieved through maximum shape integrity of the moulded components. We build the appliances and pressing moulds ourselves; here you can

rely on the years of experience we have gained since 1927 in the manufacturing of moulded components.

CNC processing guarantees maximum precision for the cabinets, the various different moulded parts of which, such as front, sides and roof, must often fit together as accurately as to the last tenth of a millimetre. This accuracy does not – as for other furniture – just have to be guaranteed for the visible joints, but also within the speaker cabinets, as the acoustics depend significantly on how airtight the box is. We apply our wide experience in CNC technology at a total of 48 workstations with up to 5 NC-controlled axes.





## Assembly, final assembly and surface processing

Even today, our highly skilled employees administer the finishing touches by hand – which is what makes our loudspeaker cabinets into industrially produced masterpieces.

At our Hungarian production plant we have both highly qualified personnel, and state-of-the-art technology.

In order to fit the box parts together exactly, we work with special gluing appliances that follow the contours of the relevant part exactly.



The combination of various different gluing systems ensures that the cabinets and individual chambers are completely airtight.

For varnishing we have two spraying cabins, equipped with the latest technology. We use different varnishing techniques and work with coloured varnishes.

The necessary final polish is done by hand. High-end veneers, other high pressure laminates and special coatings are processed according to customer specifications.

After a quality control check at the workbench, the cabinets are given a final polish.



