Perfect 5-axis CAD/CAM Software

3D-MASTER
Flexible
Easy to use
High performance
The 3D Master Software for 3 to 5-axis applications
Ten arguments for your CAD/CAM Software Solution

Standard 3D Master Software

- Developed especially for machining wood and plastic
- Simple creation of even curly 2D and 3D components
- Import of all standard CAD formats on market
- Including postprocessor and interface for tool database (MT Manager)
- Automatic adaptation of components for minimum size raw material
- Automatic generation of cutting paths from surfaces of 3D models
- 3D graphics with photo-realistic depiction
- Vectorization from graphics – generation of NC programs
- Cost and time calculation
- 5-axis simultaneous cutting with milling cutters and saw blades

Optional modules for 3D Master Software

- **3D Simulation and collision control** – 3D mockup of your HOLZ-HER machine
- **Nesting** – can be adapted to your requirements
- **Automatic CAM** – Automation of processes using external data
- **Import BTL** – BTL import for manual processing
CAD Functions at a Glance
3D Master: complete, easy-to-use CAD software

2D Functions with 3D Master

- Dimensioning
- SCL macros
- Straight lines
- Ellipses
- Cutting
- Splines
- Squares
- Rotation
- Scaling
- Line functions
- Supports
- Arc functions
- Polygons
- Rectangular functions
- Surface functions
- Circular functions
- Rectangular functions
- Polygons
- Arc functions
- Supports
- Line functions
- Rotation
- Scaling
- Dimensioning
- SCL macros
- Straight lines
- Ellipses
- Cutting
- Splines
- Squares
3D CAD Functions
Flexible programming even for complex 3D components, thanks to easy-to-implement CAD/CAM functions.

- Plane over two lines
- Plane over many lines
- Loft
- Sweep
- Intersection functions for surfaces
- Photo-realistic depiction

Highlights
- Import of IGES, STL, STEP, SAT, 3DM (Rhinoceros), DXF, CAL, HPGL, PNT, ISO, etc.
- Vectorization
- Boolean operations
- Intersections
- Support for laser scans

Parametric CAD Functions
- For use in components
- Interdependencies
- Calculation functions
- Variable list
Functions
Developed from customer requirements

The HOLZ-HER 3D Master Software was developed in cooperation with DDX especially for machining wood and plastics and is laid out perfectly for use with HOLZ-HER CNC machines. Here it does not matter whether machining is accomplished using 3, 4 or 5 axes.
3D Master for 5-axis machining – the luxury class for CNC machining
Perfect 5-axis cutting

Machining functions
- 5-axis interpolation
- 5-axis processing for cutting jobs
- 5-axis pocket cycles
- 5-axis contour cycles
- 5-axis projections

Options
- Automatic collision check
- 3D simulation
- Multi-machines
- Automatic CAM
- Nesting
### List of Standard Functions

<table>
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<th>Function</th>
<th>Image</th>
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<td>Vectorization</td>
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<tr>
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<tr>
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<td><img src="image14.jpg" alt="Image" /></td>
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</tbody>
</table>
5-axis machining with possibility of actuating one additional adjustment axis

Relief functions with corner cutouts

Unit management

Various contour machining operations and generation of approach and departure motions

3-axis surface machining, roughing, finishing

5-axis simulation machining with cutters and saws

Virtual cutting

Management of more than one CNC machine

Automatic CAM

Table simulation with clamping elements

3D simulation of machine and collision check

TrueShape Nesting

BTL import

EasyWALL/EasyBEAM
3D simulation and collision check

Perfect 3D model representation of your HOLZ-HER machine.

Nesting

Nesting module for 3D Master Software. The right solution for optimized nesting! CSV data can be read in or DXF files with numerous parts imported according to certain specifications. 3D Master nesting generates individual components from the data and provides a list of components to be produced.
The AutoCAM module allows machining operations to be assigned to layers using Drag-and-Drop and automation of entire operating sequences with the integrated SCL programming language.

Compatible with all CAD software.

A class ahead with our BTL import:

- Read-in of BTL files
- Access to BTL functions in 3D Master
- Manual processing of BTL files
The technical data specified is intended for reference only. HOLZ-HER woodworking machines are subject to constant development and are therefore subject to modification without prior notice. The illustrations are therefore not binding. Some of the machines shown also contain special equipment not included as a standard feature. For clarity, some of the machines are shown without protective hood.

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