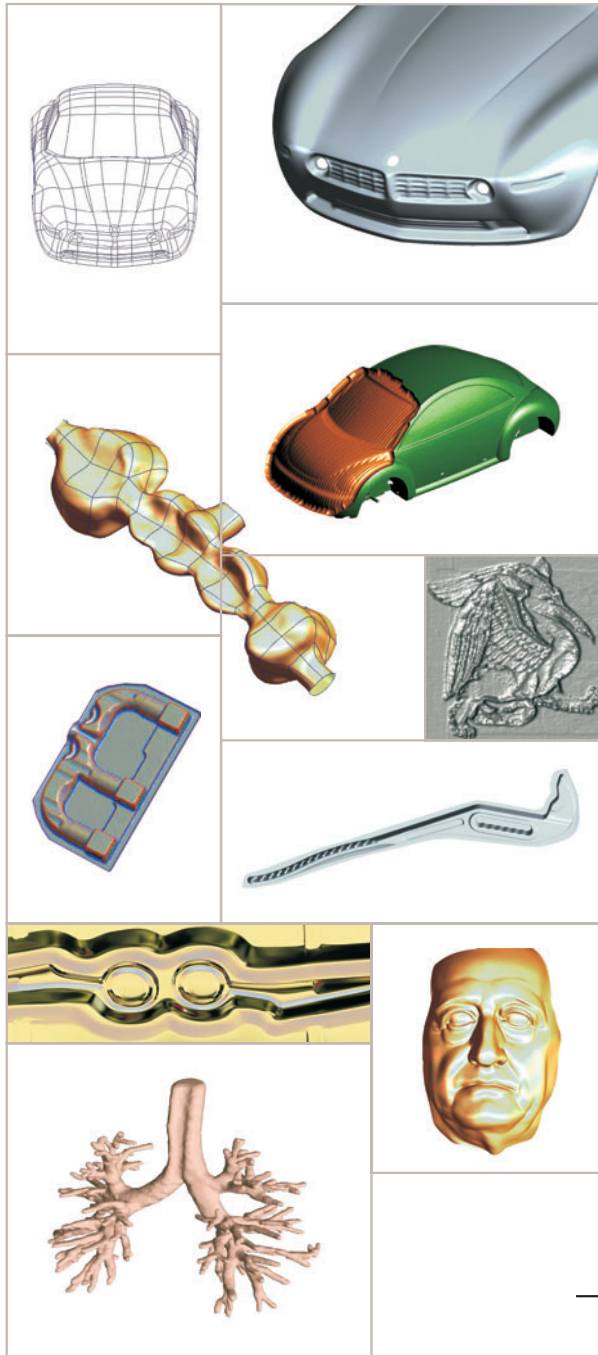




PointMaster

Basispaket



Tool Design and
-Construction

Design and Modeling

Automobil Industrie

Industrial Design

Orthopedy Technic

Protetic

Dental Technic

Movie Industry

Textile Industry

Architecture Modeling

Jewelry Making

Metrology

Quality Assurance

Sheet Metal-
Manufacturing

Shoe Industry

Concept Study

PointMaster - easy to learn -

The base module of PointMaster contains all necessary tools for a smooth reverse engineering process.

The most important functions are:

- Handling of huge point clouds
- Milling path calculation on point clouds
- Probe compensation of millingtools
- Automatic 2.5d and 3d triangulation
- Pixel-vector conversion
- DHM-Data rework
- Interfaces to the most popular graphic, point cloud and meshed data formats
- Project data management

PointMaster -easy to use -

The user interface of PointMaster is completely object-oriented. Most functions are supported by inherited automatisms. This structure allows a new user to handle highly complex tasks only after a half day training with PointMaster.



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Functional Survey

Base Module

Point cloud handling

Data transformations: translation, rotation, mirroring, scaling
 Data filtering: partial deletion, merging, smoothing, outlier removal
 Outline tools for sketch processing
 Interactive tools for simulated bulging

Point cloud conversion

2.5d and 3d triangulation
 Calculation of cuts by axially parallel or arbitrary planes and by hands-free polylines
 Calculation of axially parallel NC paths

CNC programing and reconstruction

Axially parallel roughing and finishing
 Calculation of synchronous, asynchronous and meander shaped runs
 Milling cutter geometries: ball , cylinder, cone
 Reconstruction of NC programs or scanned surface
 Five axis milling
 All popular post processors are integrated

Reconstruction of pixel data

Raster-vector conversion
 Extrusion of pixel data on the basis of color data
 Calculation of borders

Handling of STL meshes

Data transformations: translation, rotation, mirroring, scaling
 Data filtering: partial deletion, merging
 Calculation of cuts with axially parallel planes
 Outline tools for sketch processing
 Powerful reconstruction functions: Compliance with chord errors, reconstruction of sharp edges
 Healing of STL-meshes
 Offset calculations



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