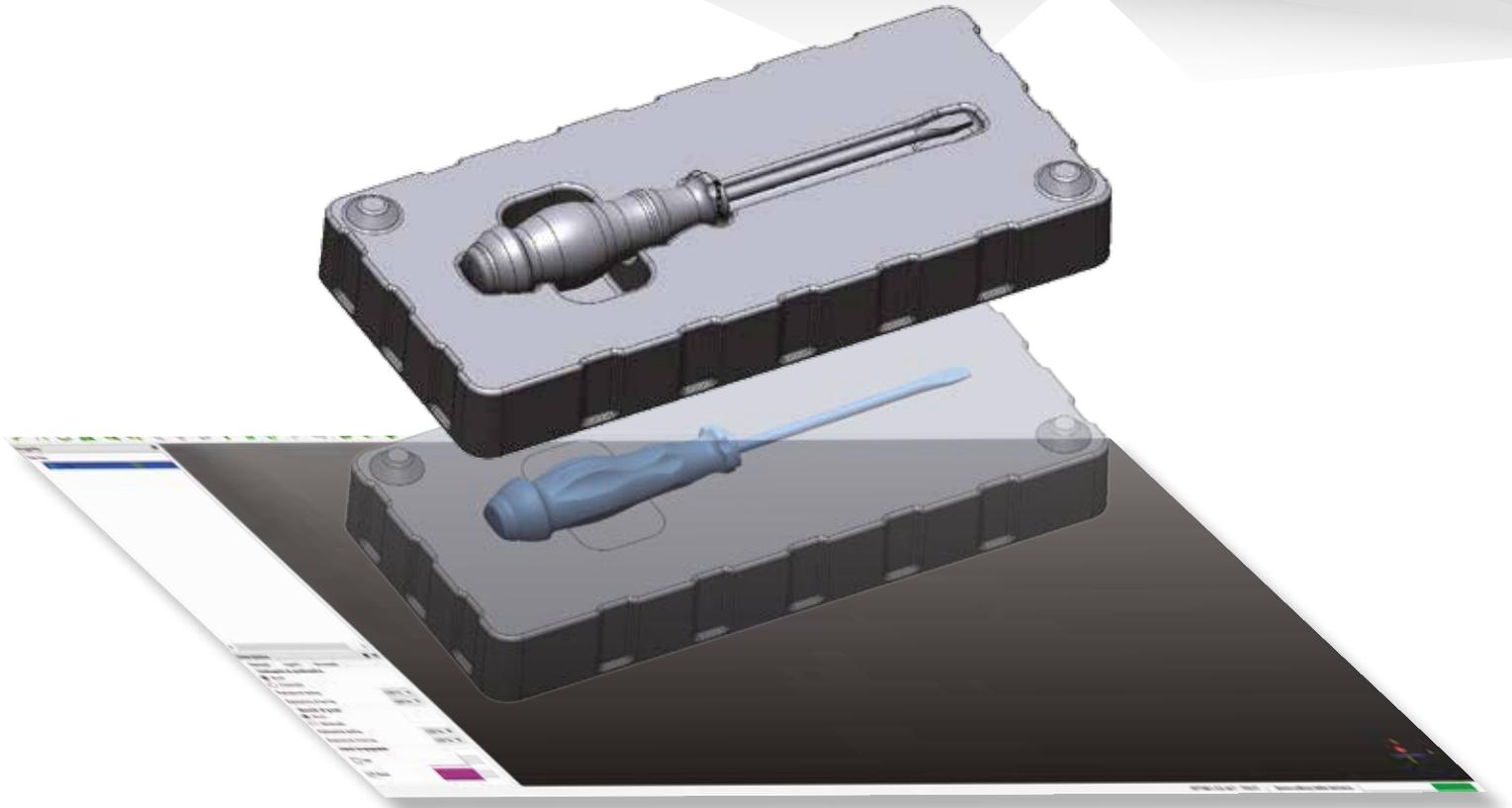


Scan to Design - Cronos



croNos / **Dx** Geomagic® Design X™

The ultimate 3d Scan-to-CAD Solution

Scan to Design is the industry's most comprehensive reverse engineering solution. It features **Geomagic DesignX**, the most complete reverse engineering software on the market, and **Cronos**, Open Technologies' most flexible and reliable solution, configured upon your specific Design needs.

 **3D SYSTEMS**
Authorized Partner



Broaden Your Design Capabilities

Instead of starting from a blank screen, start from data created by the real world. **Geomagic Design X** is the easiest way to create editable, feature-based CAD models from a Cronos 3d Scanner and integrate them into your existing engineering design workflow.

Unparalleled 3d Scan Flexibility

Cronos Scanners delivers the widest 3d-scan freedom within straightforward and intuitive workflows. Identify the best strategy and have 3d geometries acquired in a matter of minutes.

Select different registration algorithms according to specific shapes and needs, while the rotating manipulator and optical scanner work in synchronization for the highest possible automation. Easily import your photogrammetry dataset for a higher accuracy on voluminous parts.

Accelerate Time to Market

Shave days or weeks from product idea to finished design. Scan prototypes, existing parts, tooling or related objects, and create designs in a fraction of the time it would take to manually measure and create CAD models from scratch.

Enhance Your CAD Environment

Seamlessly add 3D scanning into your regular design process so you can do more and work faster. Geomagic

Design X complements your entire design ecosystem, with native output to SolidWorks®, Siemens NX®, SolidEdge®, Autodesk Inventor®, PTC Creo® and Pro/ENGINEER®.

Leverage Existing Assets

Many designs are inspired by another. Easily scan into your CAD system. Learn from it. Reuse it. Improve on it. Easily rebuild your old parts into current CAD data, create drawings and production designs.

Do the Impossible

Create products that cannot be designed without reverse engineering, customized parts that require a perfect fit with the human body. Create components that integrate perfectly with existing products 3d scans. Recreate complex geometry that cannot be measured any other way.

Reduce Costs

Save significant money and time when modeling as-built and as designed parts. Deform an existing CAD model to fit your 3d Scans. Reduce tool iteration costs by using actual part geometry to correct your CAD and elimination part springback problems. Reduce costly errors related to poor fit with other components.



The Fastest Path from 3D Scans to your CAD Software

WORKFLOW

Scan To Design is purpose-built for converting 3D scan data into high-quality feature-based CAD models. It does what no other solution can with its combination of automatic and guided solid model extraction, incredibly accurate exact surface fitting to organic 3d scans, mesh editing and point cloud processing.

Scan

- 3d Acquisition with Open Technologies Cronos



Point Cloud Or Mesh

- Direct Scanning
- File Import



Process Points Cloud and Mesh Data



Water Tight Mesh

- Manufacture or Simulation



Design Intent Feature Extraction

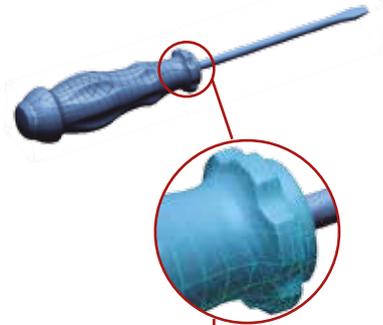
- With Accuracy Analysis



Feature Based CAD Model

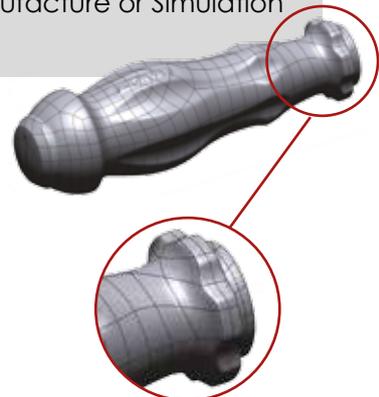
- SOLIDWORKS®, Siemens NX®, Solid Edge, Autodesk Inventor® e PTC Creo® .

As Built Modeling Automatic and Exact Surfacing



Highly Accurate CAD conversion

- CAD system
- Manufacture or Simulation



KEY FEATURES

GEOMAGIC® DESIGN X™ KEY FEATURE SOFTWARE

Supports import of over 60 file formats including polygons, point clouds and CAD.
Expertly handles massive mesh and point cloud data alignment, processing and refining, mesh construction.
Easy-to-use mesh repair tools deliver rapid hole filling, smoothing, optimizing, re-wrapping and polishing tools such as Smart Brush.
Automatic, feature-based solid and surface extraction direct from 3D scans
Rapidly creates solids or surfaces like you would in CAD.
Automated Accuracy Analyzer™ tools compare and validate surfaces, solids and sketches against original scan data.
Live Transfer™ supports the output of data to the industry's leading CAD systems.
Industry-leading "Exact" surface creation converts organic shapes to precise CAD models.
Supports comprehensive export of neutral CAD or polygon files.
Instantly create stunning renderings of your designs in Keyshot.

HARDWARE FEATURES

RESOLUTION [MPixel]	3.1 (2048*1536)	2.0 (1600*1200)	1.3 (1280*1024)
FIELD [mm]	from 150 to 450	from 150 to 450	from 150 to 450
WORKING DISTANCE [mm]	from 400 to 1015	from 310 to 935	from 400 to 1070
POINT SPACING [μm]	from 73 to 219	from 93 to 281	from 117 to 351
OUTPUTS	.STL, .OBJ, .PLY, .OFF, Curves and section in .Iges		
TURN TABLE PAYLOAD	100 Kg		
Our range of measuring devices is certified according to Vdi - Vde 2634 standards. Available as Dual (one additional measuring volume)			

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