

3D SCAN
INNOVATION



3D-SCAN INNOVATION CO.,LTD.
www.3d-scaninnovation.com

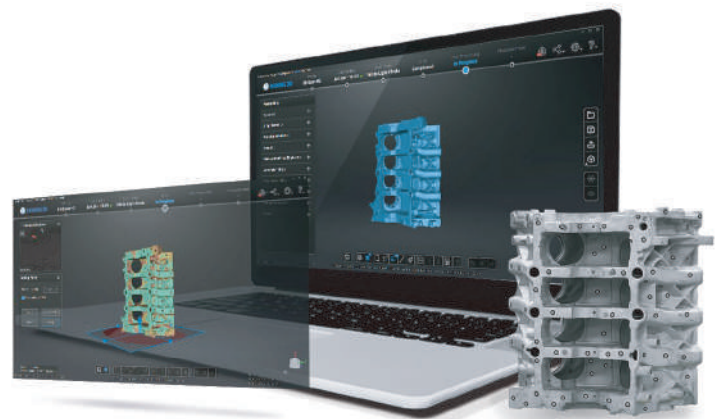
COMPANY PROFILE

INTRODUCTION



3D-Scan Innovation Co.,Ltd. The company operates as a distributor & after-sales service for measuring machines, 3d scanner for inspection & reverse engineering and inspecting of high-resolution works. With advanced technology from leading manufacturers of measuring instruments and software the world's leading under Shining3D brand.

In August, 1st 2024, 3D Scan Innovation was founded by Mr. Sarayuth Salamad. 3D Scan Innovation have sales and service networks strategically spread throughout the Asia-Pacific region. 3D-Scan Innovation also has a professional group of people attained with highest degree of metrology experience and quality service attitude to provide application solution support and meet all your metrology needs by following our Quality Policy as

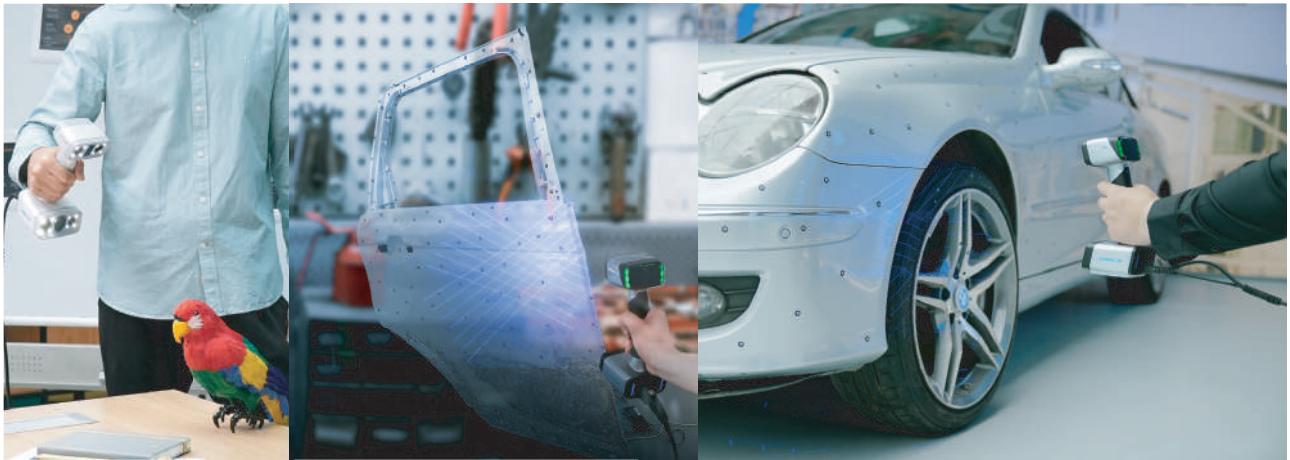


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3D-SCAN INNOVATION SERVICE CENTER

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EinScan HX2

Hybrid Blue Laser & LED Light Source
Handheld 3D Scanner



The EinScan HX2 enhances its predecessor's features, now boosting 13 crossed blue laser lines for more detailed scanning and an increased frame rate of 120 FPS for faster scanning. Retaining the hybrid laser and blue LED technology, the EinScan HX2 excels in accuracy, versatility, and ease of use. The EinScan HX2 is ideal for automotive aftermarket, mold manufacturing, research & education, art & culture.

TECHNICAL SPECIFICATION

Scan Mode	Rapid Scan	Laser Mode
Light	Blue LED	13 Crossed Blue Laser Lines
Scan Accuracy	Up to 0.05 mm	Up to 0.04 mm
Volumetric Accuracy	0.05 + 0.01mm/m	0.05 + 0.06mm/m
Point Distance	0.25mm - 3mm	0.05mm - 3mm
Working Distance	470 mm	
Depth of Field	200mm - 700mm	350mm - 610mm
Scan Speed	1,200,000 points/s, 20FPS	1,600,000 points/s, 120FPS
Alignment Modes	Markers, Feature, Hybrid, Texture	Markers
Maximum FOV	420 × 440 mm	380 × 400 mm
Laser Class	Eye-safe	CLASS II (eye-safe)
Dimension (LxWxH)	108 × 110 × 237 mm	
Included software	EXScan HX	
Connectivity	USB3.0	
Output formats	OBJ; STL; ASC; PLY; P3; 3MF	
Scanner weight	745 g	
Operating temperature range	0 - 40 °C	
Recommended configuration	OS: Win10/11, 64-bit; Graphics card: NVIDIA RTX3060 or better; Video memory: ≥6GB; Processor: Intel i7-12700 or better; Memory: ≥32GB	
Required configuration	OS: Win10, 64-bit; Graphics card: NVIDIA RTX2060 or better; Video memory: ≥4GB; Processor: Intel i7-8700 or better; Memory: ≥16GB	



• Hybrid Blue Laser & LED Light

The EinScan HX2 continues the innovative integration of hybrid blue laser and LED light technology, enhancing material adaptability for a broader range of applications. The advanced blue laser captures complete data from black and reflective surfaces with exceptional surface and environmental adaptability, now with 13 laser lines for more fast and detailed scans. The efficient LED light scanning requires no markers, enabling rapid 3D scanning without preparation.



• High Efficiency

The EinScan HX2's laser scan mode reaches 1,600,000 points/s and 120 FPS, enabling rapid scans for reverse engineering, CAD/CAM, and 3D printing. It scans most objects in minutes, ensuring superior efficiency and productivity in all your 3D scanning projects.

• High Accuracy & Detail

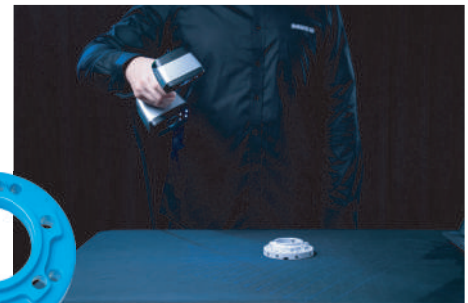
The EinScan HX2 meets the rigorous demands of industrial applications for reverse engineering and precise measurement.

• Portable & Easy Operation

The EinScan HX2 excels in portability and ease of use with its ergonomic design and lightweight build at just 745g. Perfect for both beginners and professionals, its plug-and-play functionality and user-friendly software make 3D scanning efficient and comfortable, anywhere you go.

• Full Color

With a built-in color camera, it supports full-color texture capturing and tracking in rapid scan mode. Texture Mapper Lite further simplifies photorealistic texture mapping.



Ring Flange
Outer Ring Radius 52 mm
Inner Ring Radius 26 mm



Fire Hydrant
68 × 68 × 620 mm



Original



Scanned data by
EinScan HX2 &
Texture Mapper Lite

EinScan HX

Hybrid Blue Laser & LED Light Source Handheld 3D Scanner



Based on years of 3D measurement experience and market demand, SHINING 3D innovatively integrates blue LED light and blue laser into EinScanHX handheld 3D scanner. The hybrid laser and LED light sources make EinScan HX compatible with a wider range of object sizes, meeting multiple needs of users. High efficiency and reliable result give EinScan HX more application possibilities.

TECHNICAL SPECIFICATION

Scan Mode	Rapid Scan	Laser Mode
Light	Blue LED	7 Blue Laser Crosses
Scan Accuracy	Up to 0.05 mm	Up to 0.04 mm
Volumetric Accuracy	0.05 + 0.01mm/m	0.04+0.06mm/m
Point Distance	0.25mm - 3mm	0.05mm - 3mm
Working Distance	470 mm	
Depth of Field	200mm - 700mm	350mm - 610mm
Scan Speed	1,200,000 points/s, 20FPS	480,000 points/s 55FPS
Alignment Modes	Feature Alignment, Markers Alignment, Texture Alignment, Hybrid Alignment	Markers Alignment
Maximum FOV	420 × 440 mm	380 × 400 mm
Laser Class	Eye-safe	CLASS II (eye-safe)
Dimension (LxWxH)	108 × 110 × 237 mm	
Built-in Color Camera	Yes	
Connectivity	USB3.0	
Output formats	OBJ; STL; ASC; PLY; P3; 3MF	
Scanner weight	710 g	
Operating temperature range	0 - 40 °C	
Recommended configuration	OS: Win10/11, 64-bit; Graphics card: NVIDIA RTX3060 or better; Video memory: ≥6GB; Processor: Intel i7-12700 or better; Memory: ≥32GB	



● Hybrid Blue Laser & LED Light

Innovatively integrated with dual blue LED light and blue laser, improves scanning materials adaptability with less limitation for a wider range of applications. LED light scanning allows rapid 3D scanning. Laser scanning, which is less sensitive to ambient light, gives better performance to reflective and dark color surface.

● High Efficiency

Processing speed of EinScan HX under Rapid Scan Mode is up to 1,200,000 points/s, and multiple blue laser lines under Laser Scan Mode makes scanning of most objects in minutes for reverse engineering, CAD/CAM, 3D printing and etc.

● Reliable Results

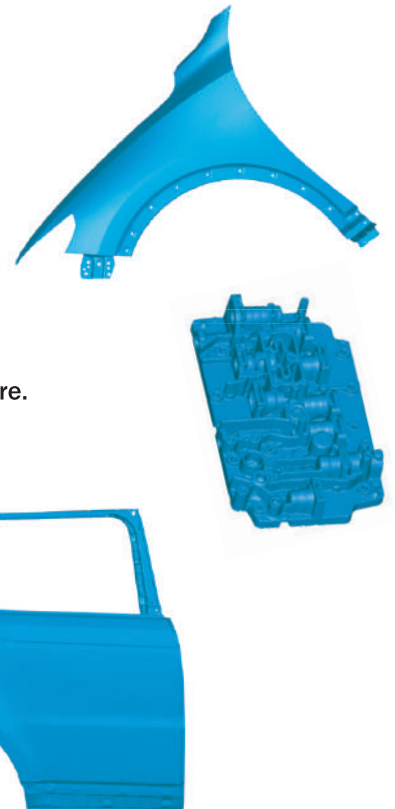
The high resolution and accuracy meet the needs of most industrial application for reverse engineering and measuring.
(Minimum point distance of 0.05mm; accuracy up to 0.04mm under laser mode)

● Portable & Easy Operation

EinScan HX is plug and play with user friendly software, which is easy to operate, no matter you are newbie or with professional experience in 3D scanning. The portability and flexibility use of EinScan HX has been considered to its ergonomic design for a more efficient and comfortable scanning experience.

● Full Color

With built-in color camera, it supports full color texture capturing and tracking by texture.



APPLICATIONS

- Automotive
- Shipbuilding
- Machining
- Education and Research



EinScan H2

High Texture Resolution Handheld 3D Scanner



The EinScan H2 improves on its predecessor with a 5MP resolution texture camera, enhanced accuracy, and 3 infrared VCSEL projectors for more photorealistic textures and better quality data. Its wide scanning area and adjustable working distance make it suitable for various scenes and objects, both small and large, in narrow or wide spaces. The EinScan H2 is an efficient 3D scanning tool that can revolutionize your workflow.

TECHNICAL SPECIFICATION

Scan Mode	White Light Mode	IR Mode
Light	White LED Light, Visible	Infrared VCSEL Light, Invisible
Scan Accuracy	Up to 0.05 mm	Up to 0.1mm
Volumetric Accuracy	0.05 + 0.01mm/m	0.1mm±0.3mm/m
Point Distance	0.25mm - 3mm	
Working Distance	470 mm	
Effective working Distance Range	200mm-700mm	200mm-1500mm
Scan Speed	1,200,000points/s	1,060,000points/s
Alignment Modes	Markers Alignment, Feature Alignment, Hybrid Alignment, Texture Alignment	Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers
Maximum FOV	420 × 440 mm	780 x 900 mm
Laser Class	LED light (eye-safe)	CLASS I (eye-safe)
Dimension (LxWxH)	108 × 110 × 237 mm	
Included Software	EXScanH; Solid Edge SHINING 3D Edition	
Built-in Color Camera	Yes	
Interface	USB3.0	
Output formats	OBJ; STL; ASC; PLY; P3; 3MF	
Scanner weight	731.1 g	
Operating temperature range	0 - 40 °C	
Recommended configuration	OS: Win10/11, 64-bit; Graphics card: NVIDIA GTX/RTX, RTX2060 or better; Video memory: ≥6GB; Processor: Intel I7-11700 or better; Memory: ≥64GB	



SHINING 3D



· EinScan H2 Scanned Data



· EinScan H2 Scanned Data



3 Infrared VCSEL Projectors



Data Acquisition Camera

5MP

5MP Texture Camera

White Light Projector



● Photorealistic Texture

5MP Texture Camera

Captures rich, bright colors and clean textures for photorealistic 3D models.

● Superior Environmental

3 VCSEL Projectors Provide superior material and lighting adaptability, effortlessly handling various surface types and scanning environments.

● Hybrid Light Source

Dual light sources improve scanning efficiency. LED light offers fast 3D scanning with accurate, high-quality data.

- Various scenes from small to large
- Scanning speed: 1,200,000 points/s
- Accuracy: Up to 0.05mm
- Point distance: Up to 0.2mm

● Ultra-wide FOV and Adjustable

Adjustable working distance Enables working distance adjustment from 200mm to 1500mm, to adapt to narrow or wide scenes and objects of various

Marker-free scanning (Scans rich geometric features without the hassle of markers)



● Optimized for Face and Body

· **Flashless infrared technology**

Ensures optimal comfort during face and body 3D scanning.

· **Advanced hair enhancement algorithm**

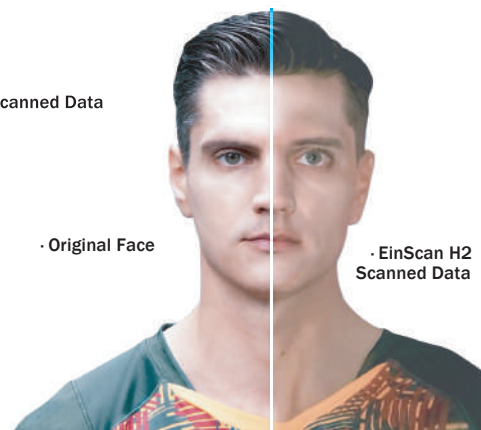
Designed to successfully capture light and dark hair.

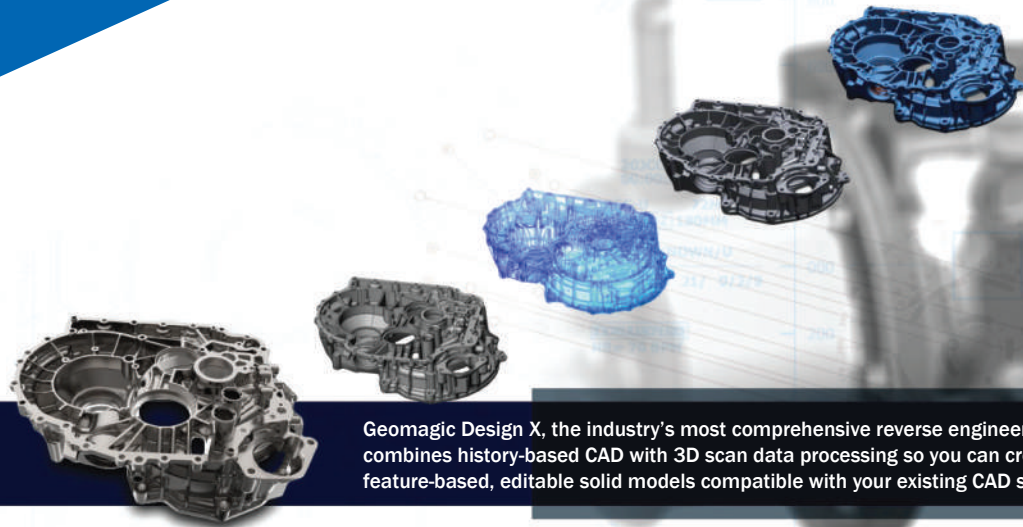
· EinScan H2 Scanned Data



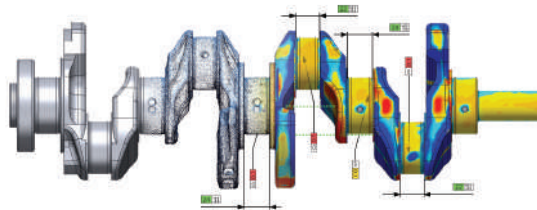
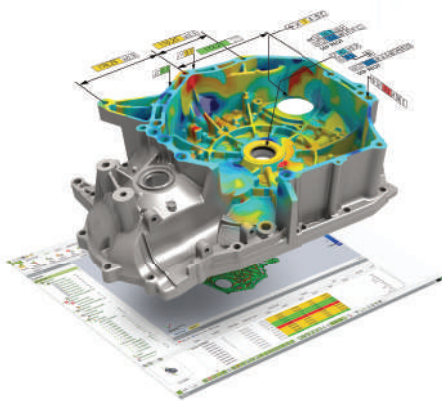
· Original Face

· EinScan H2 Scanned Data





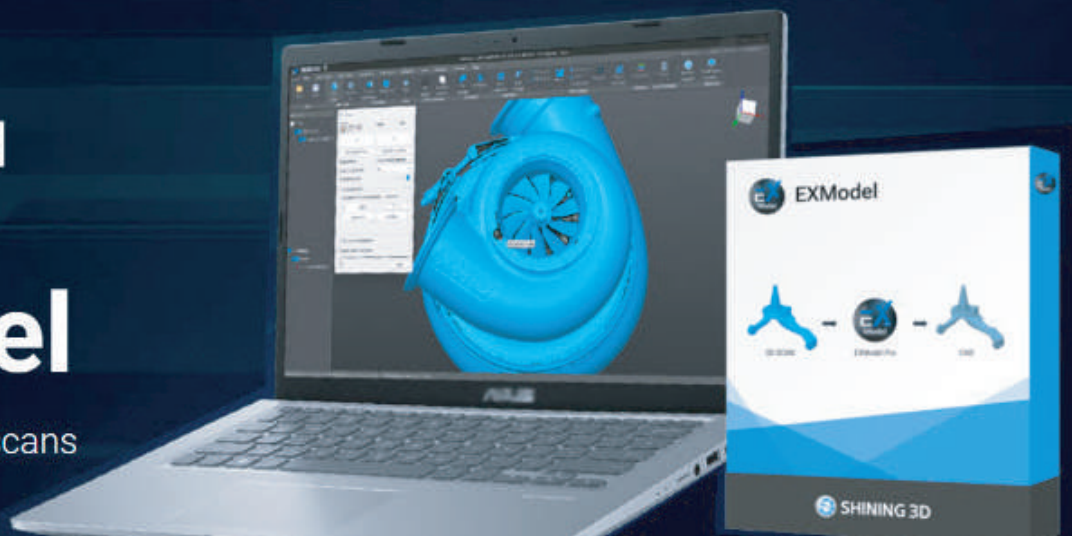
Geomagic Design X, the industry's most comprehensive reverse engineering software, combines history-based CAD with 3D scan data processing so you can create feature-based, editable solid models compatible with your existing CAD software.



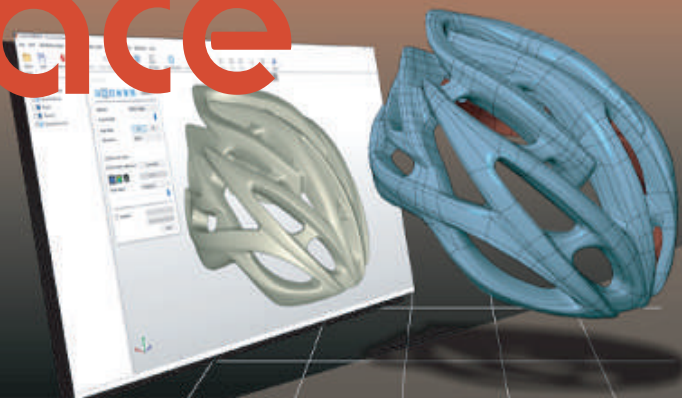
Geomagic® Control X™ is a professional 3D quality control and dimensional inspection software that lets you capture and process the data from 3D scanners and other portable devices to measure, understand, and communicate inspection results to ensure quality everywhere.

EXModel

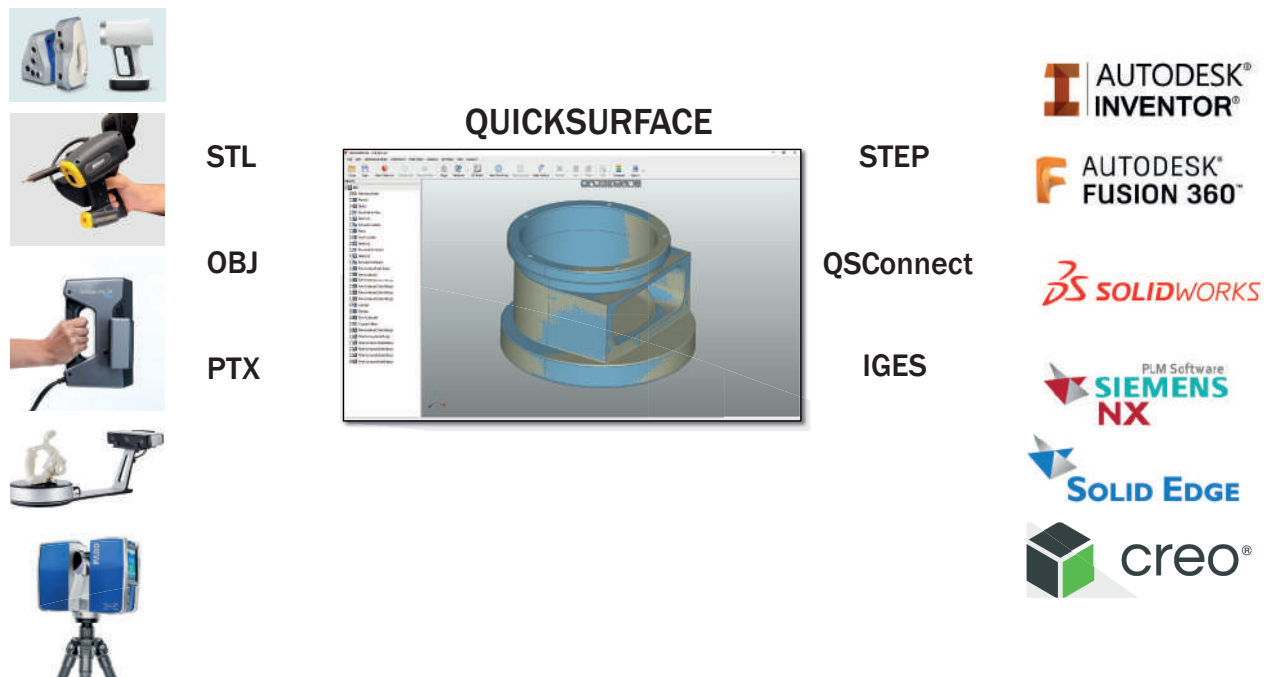
Seamless convert 3D scans to CAD with EXModel



QUICKsurface



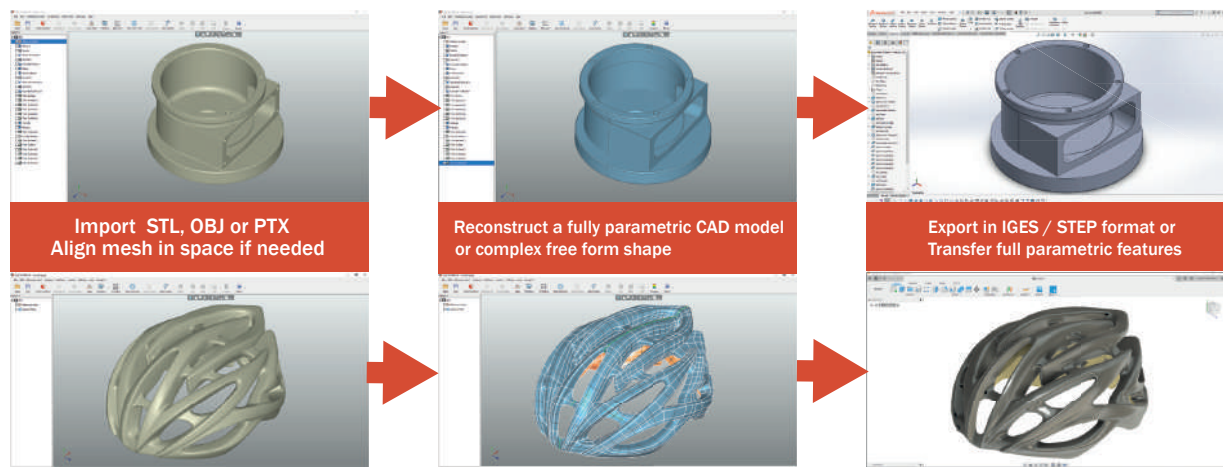
The ultimate Reverse Engineering solution for your 3D scanner



QUICKSURFACE is a complete reverse engineering solution that compliments to any 3D scanner which can export STL mesh data or PTX point clouds. Working with a large meshes QUICKSURFACE provides all necessary tools to convert the meshes into editable CAD models. Interactive tools for hybrid parametric modelling of Both organic and prismatic shapes that fit the meshes. Export data in standard IGES or STEP file formas or build fully parametric history tree directly into other CAD packages.

WORKFLOW

FROM 3D SCAN TO CAD - Reverse engineering can be complex and tedious job, sometimes a time-consuming process to achieve the required results while maintaining accuracy and design intent. Reconstruct your parts simply and without compromising on quality.





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