



3D SCANNING SOLUTIONS

3D SCANNING & REVERSE ENGINEERING SERVICES



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3D Scanning

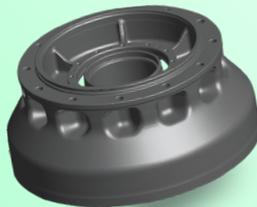
3D Scanning Solutions is based in Staffordshire and offers a variety of services including 3D scanner system sales, 3D scanning services and reverse engineering.

We are authorised resellers of 3D scanning systems manufactured by ZG Technology and Verisurf Metrology Solutions.

Our scanner of choice is the Atlascan blue laser scanner from ZG Technology. It's a powerful metrology grade portable unit that allows us to offer customers an on-site scanning solution.

Alternatively, you can simply ship the part to us and when our engineers receive it, they will analyse it prior to scanning to determine the best way forward.

For accurate data capture we use photogrammetry markers which allow us to manipulate the scanner and the part during data capture. Photogrammetry markers are also ideal for scanning larger objects such as a train chassis or a car. The markers enable us to align/merge scans accurately since attempting to capture the data in one scan would result in lengthy processing times.



Our 3D scanning services include:

- Laser scanning
- White light scanning
- Macro scanning
- CT scanning (size permitting)



Reverse Engineering

What we do with the data.....well here you have a choice. You can simply ask us to provide you with the scan data so that you can reverse engineer the part yourself or we can carry out the reverse engineering for you.

Our customers have such a wide variety of requirements that we utilise several software platforms to deliver the results that each customer requires. Our engineers have years of experience and in-depth knowledge and put this into practice by ensuring the scan data is thoroughly dissected and analysed. This information is then fed back to

you, the customer, so you can make informed choices about the direction in which you need to proceed.

Once the analysis has been completed, we then move on to recreating the CAD Data. The output can be a simple dumb step file or a native CAD file with a full history tree.

We have been involved in countless reverse engineering projects ranging from activities in the US medical sector (3D macro scanning and reverse engineering) through to Formula 1 (laser scanning and reverse engineering).

Surface Deviation Analysis/First Article Inspection

There are several benefits to be gained from using 3D scanning for surface deviation analysis. Physical parts can be scanned into a digital model and then overlaid onto the 3D CAD model/master model.

From this, a deviation colour map can be created with customised dimensional limits. This allows the customer to quickly and easily identify if there are any issues in the manufacturing process. Please contact us for more information.



We also provide 3D scanning & Reverse Engineering Services.

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For more information please visit our website.

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