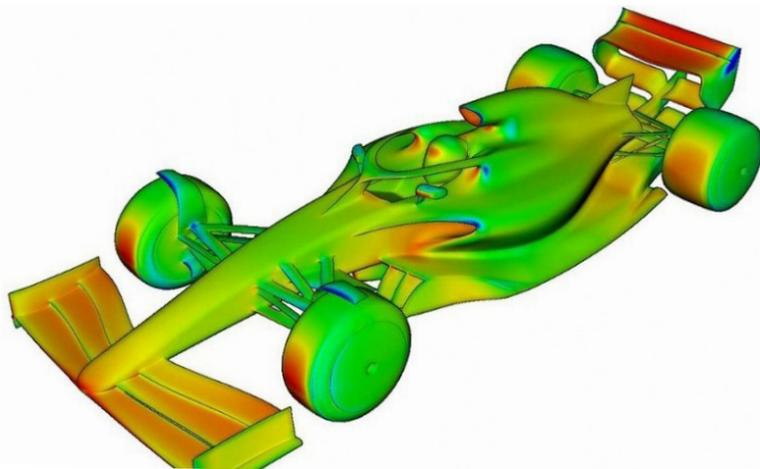
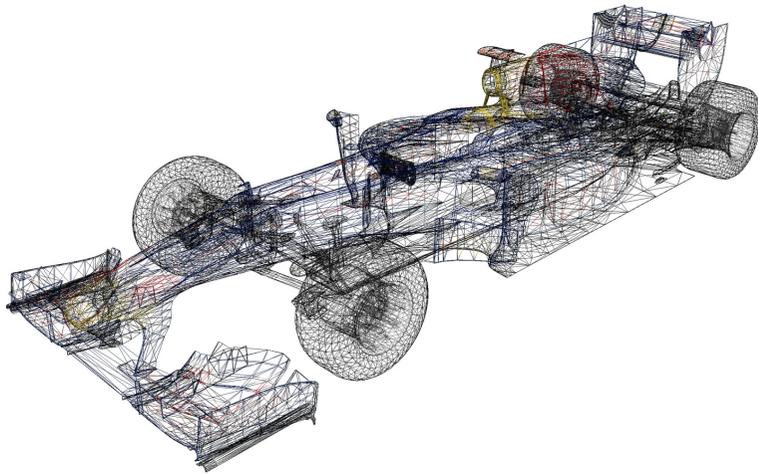




MULTISCAN

Automotive





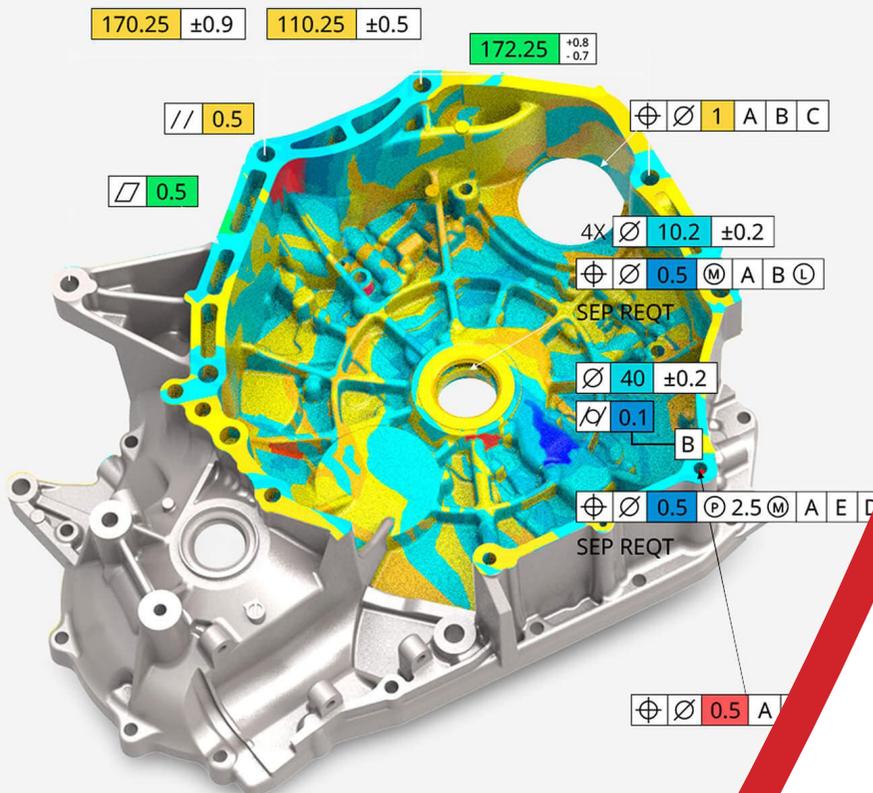
3D SCANNING

**REVERSE
ENGINEERING**

**DIMENSIONAL
ANALYSIS**

METROLOGY

Multiscan deals with dimensional survey and verification with the possibility of issuing a certification of compliance with design tolerances. This activity also has great potential in the case of checking the deformations that a component under stress has undergone over time, giving the possibility of verifying whether damage and structural deficits are present that may compromise the functionality and integrity of the part.



QUALITY CONTROL

3D scanning also finds great application in all quality checks of component manufacture.

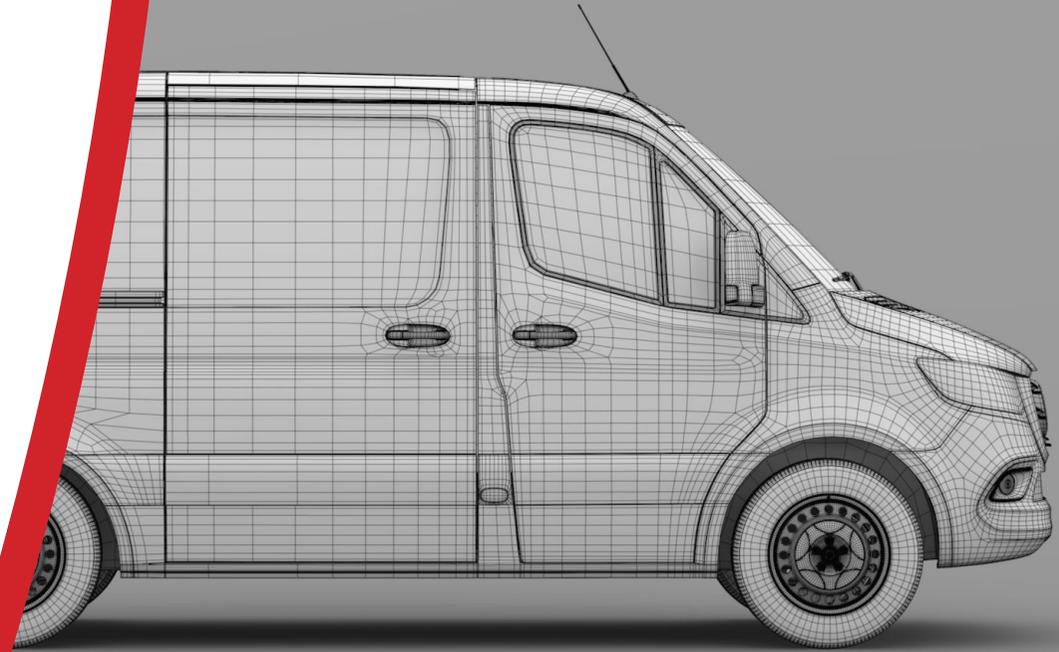
For example, let's take a look at the survey report of an engine block. The survey was carried out with the Kscan scanner at a resolution of 0.1 mm, compared to the native three-dimensional model we can therefore verify design-product discrepancies.

VEHICLE OUTFITTING

3D scanning finds great potential in the outfitting of special vehicles such as ambulances, civil defence and police vehicles, motorhomes or work vehicles.

Thanks to a precise survey, it will be possible to realise a quick and accurate outfitting project without the use of templates and manual measurements.

Thanks to specialised technicians, it will be possible to survey the interiors and structure of all those vehicles for which a 3D model is not available, either because it is not supplied by the manufacturer or because it is now out of production.



REVERSE ENGINEERING AND DEVELOPEMENT

Following the 3D scan, a reverse engineering process will be carried out in order to return a three-dimensional model on which the client can work, Multiscan also deals with feasibility studies and preliminary design.

We are always open to discussion and new opportunities to meet the specific needs of each customer in such a vast and varied sector and to guarantee a service beyond all expectations.

Automotive



SURVEY OF HERITAGE

3D scanning, thanks to the incredible level of precision achieved and the versatility of use, is the most suitable tool for surveying even large objects such as entire vehicles.

Multiscan is aimed at companies, museum facilities, associations, private owners and enthusiasts who want their heritage to be digitally preserved or exhibited, as well as used to reproduce parts that are no longer available.



Depending on the precision required, different technologies can be used: a survey by laser scanner, which carries out the survey by taking a precise 360-degree photograph of each individual scan, which is particularly suitable for heritage survey purposes and digital reproduction for museums, archives or other digital uses.

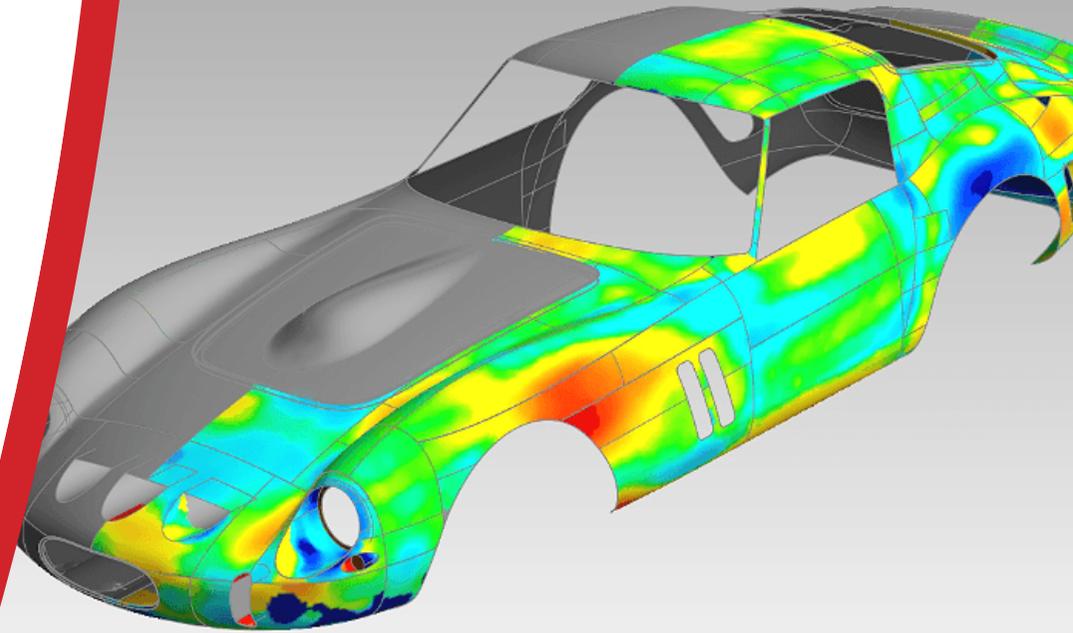
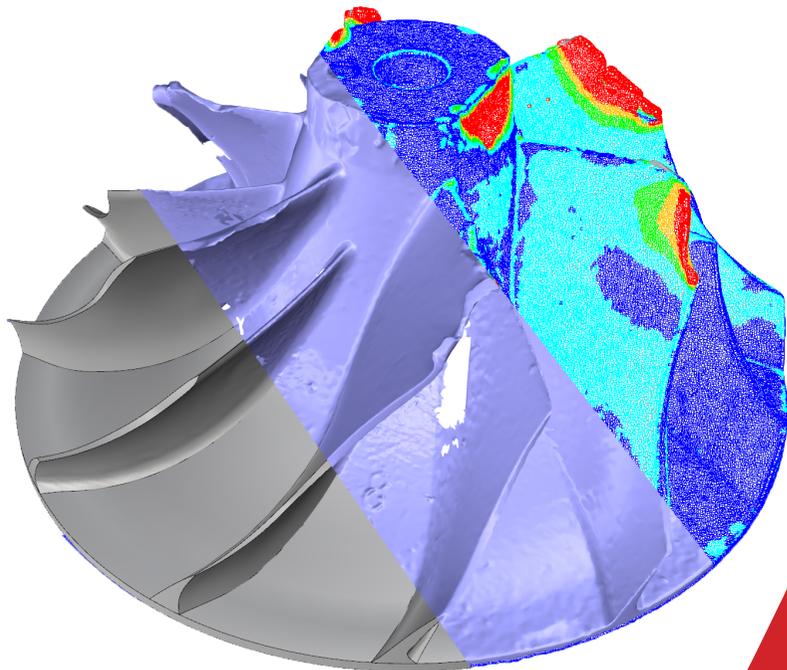
Or a much more precise survey can be carried out using our Scantech instrumentation, as can be seen in both examples, the bodies of two historic cars are scanned in order to digitally reproduce the geometries created by the bodies in the 1960s.

Automotive



DAMAGE ANALYSIS

Multiscan can also be at your side if damage analysis is required. Thanks to 3D scanning, it is possible to obtain complete and precise information on areas and components that have suffered breakage or deformation, which would otherwise be difficult to detect with traditional surveying technologies. Thanks to an accurate reverse engineering process, we can create a precise 3D model that the company can use for repairs or design modifications.



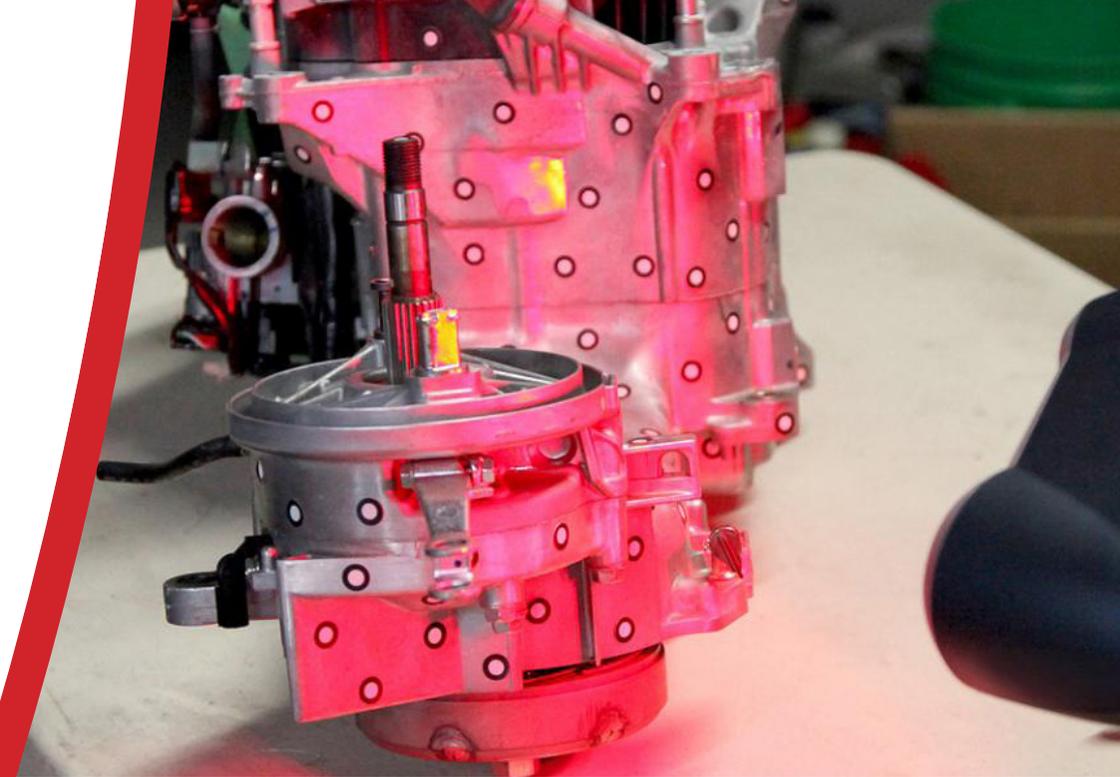
For example, let's take a look at a survey carried out with the Kscan produced by Scantech at a resolution of 20 microns, it is a turbo compressor, which has undergone a deformation of the blades.

The mesh of the relief, superimposed on a theoretical 3D model, shows the deformation undergone. Similarly, any component can be scanned and verified in order to compare deformations and variations due to use or external factors.

WE LISTEN TO YOUR NEEDS

Multiscan is always open to the requests of the most demanding customer. Thanks to 3D scanning, we are able to make the company reach standards never reached before, optimising time and costs.

Three-dimensional scanning often proves to be the most suitable solution even for solving construction problems as, thanks to a high-precision survey, it is possible to work towards a solution quickly.



Multiscan also operates in other sectors such as aviation, marine, industry, and energy, so we can also be at your side along the supply chain and in the optimisation of a wide range of business sectors.

We are always open to discussion in order to find the most suitable solution, and it is also an incentive for us to always improve and optimise our service.

Automotive



MARCHES



MULTISCAN

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