



Movies & Television

Modern 3D scanning technologies and reverse engineering techniques mean that any object in the physical world can be easily scanned & replicated.

For movie and television production companies this means that rare and/or precious items can be accurately reproduced for use within their productions.

The key to the accurate reproduction of parts is through reverse engineering. This is the process of taking an existing object, using 3D optical scanning and other techniques to reproduce the geometry of the object, creating a 3D CAD model and then re-creating the object as it was originally intended.

What is 3D optical scanning?

3D Optical Scanning is a quick & highly accurate data capture and measurement technique, which uses a blue light optical scanner to capture data of 3D objects. Once the data is captured it can be imported into Computer Aided Design software (CAD) where it is adapted to enable replicas of the original items scanned to be created.

How scan data can be used

The accurate scan data can be used in a number of ways. Firstly it can be used to create CNC data which allows the object to be replicated using modern manufacturing techniques. The data can also be used to create 3D and 2D drawings, enabling craftsmen to reproduce objects by traditional methods. Finally the CAD files can be used in the creation of CGI models and animations.

For more information, visit:

scanning.pes-performance.com



Original carved wooden pieces can be scanned & reproduced via CNC wood turning.

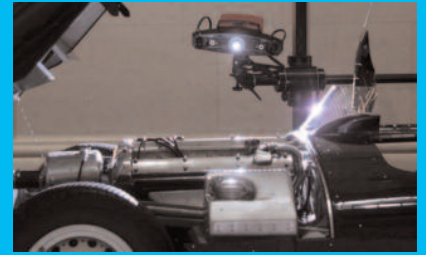


Scanned sculpture & art pieces can be reproduced with 3D printing or traditional model making



We were asked to scan the prototype of the original Beagle Pup aircraft to provide a full digital archive

Applications of 3D Scanning include:



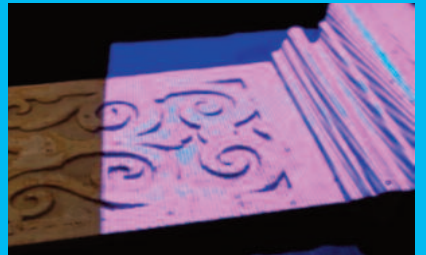
3D scanning classic Jaguar D-Type race car



Scan data can be use to create accurate CGI data

Where 3D Scanning can be used

- Motor Vehicles
- Aircraft
- Historic features within churches, stately homes etc
- Sculpture & 3D art pieces
- Armour & historic militaria
- Wooden furniture
- Military vehicles
- Cutlery & other metal ornaments
- In fact pretty much anything.....



3D scan of historic wood panelling from Churchill Room, London



Vintage & classic cars can be easily & quickly scanned to enable replicas to be built. This can be especially useful for stunt work.



Scanning allows armour and other historic militaria to be reproduced



Scan data of an antique silver coffee pot

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