

# **A**GÍO**M**ETRÍX

Laboratory compliant to IATF 16949

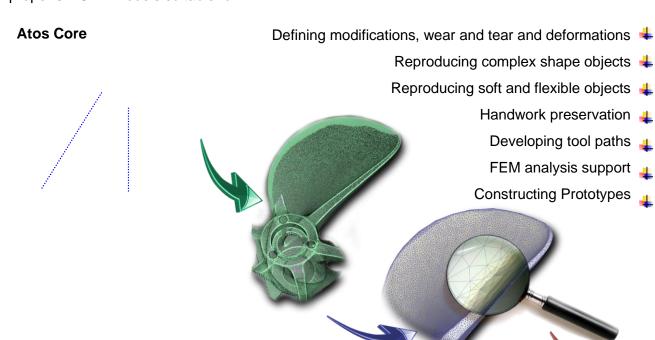
# REVERSE ENGINEERING

### The way to Speed up the Work Flow Reducing Costs

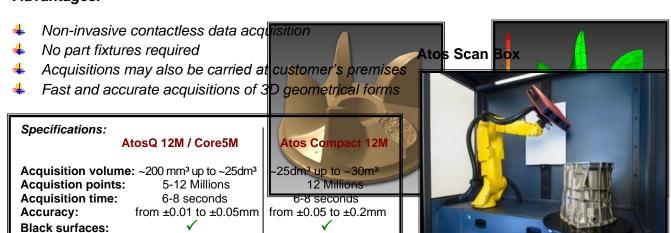
Reverse engineering is the process used to reproduce the three dimensional geometrical forms of an object, device or piece of equipment

Agiotech has been using **Atos CORE and Atos COMPACT** optical topometric digitalisation systems for its scanning process since years.

Starting from an existing physical model, irrespective of its shape, it is possible to obtain the proper 3D CAD models suitable for:



#### Advantages:





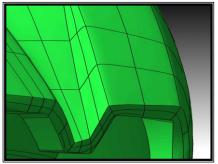
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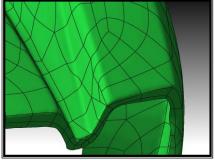
## 3D CAD Models

#### **Exact Surfaces modelling (Patching)**

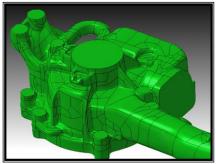
Exact surfaces (NURBS) are applied to the scans in order to reproduce the entire object with the maximum accuracy level.



**Guided Patching** High accuracy on every type of surface



Automatic Patching Faster than Guided Patching but less accurate

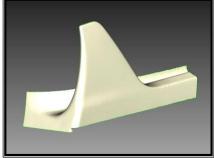


**Hybrid Modelling** Accuracy of the autopatch on complex surfaces and native geometrical forms on machined areas.

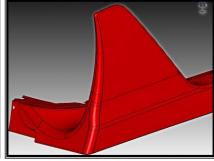
### **Native Reverse** "B" Class / "A" Class



Physical Object



Three-Dimensional Scan



Native 3D CAD model

# **Reverse Engineering Application**

Small object system

#### Molds Reconditioning and Repairing:

It is possible to reconstruct worn or missing parts, regenerate the "cavities", the closures and all damaged mechanical parts..

