

Accurate

Easy

Unique

Versatile

Universal

Revolutionary



# AQUILON

The next-generation 3D laser scanner by Kreon

## Technical specifications:

User controlled speed: up to 1 million points /second

Accuracy: 5  $\mu\text{m}^*$

Dual cameras

Laser line length: 50 mm

Measuring field: 75 mm

Stand-off distance: 60 mm

PH 10 and MH interface

Compatible with all portable articulated arms

Integrated contact probe

Laser class: II

# Kreon



## New groundbreaking technology

- Extreme accuracy
- New : AQC (Auto-Quality Check)
- Combination of contact and non-contact measurement technologies
- Maximum surface flexibility
- High technology
- Aesthetic and ultra-efficient design

## Versatility without limits

- For online and offline measurement
- Seamless integration into existing environments
- Access to a wide suite of reverse engineering and quality inspection tools: 3D CMMs, portable measuring arms, robots, and CNC machine-tools

## User benefits

- Improved quality of parts
- Total control of data acquisition
- Easy integration in operator's existing workflow
- Tenfold productivity increases
- User-friendly and portable technology
- Short learning curve

## Auto-Quality Check (AQC)

Aquilon features the AQC, a new functionality that enables spectacular increase of system performance, accuracy and data output. The AQC makes it possible to control automatically scan data quality: automatic compensation of the different materials' optical characteristics is performed during scanning to guarantee superior data quality. This provides maximum surface flexibility to capture shiny parts in their natural state without prior surface preparation. Using dual cameras and laser triangulation, Aquilon captures the most complex surfaces by sweeping over the surface of the object like a paintbrush.

Functions to evaluate optimal scanning distance and display of real-time preview of scan data are also available. Scanning speed is totally user-controlled and adjustable according to the data density required by the application.

Aquilon further increases accuracy with the possibility to integrate a contact probe, a perfect combination of traditional metrology and non-contact measurement technology that brings 3d laser scanning as close to customer needs as possible.

Both high-tech and user friendly, Aquilon is the next-generation 3D laser scanner, designed to suit the most demanding customer requirements.

## Open

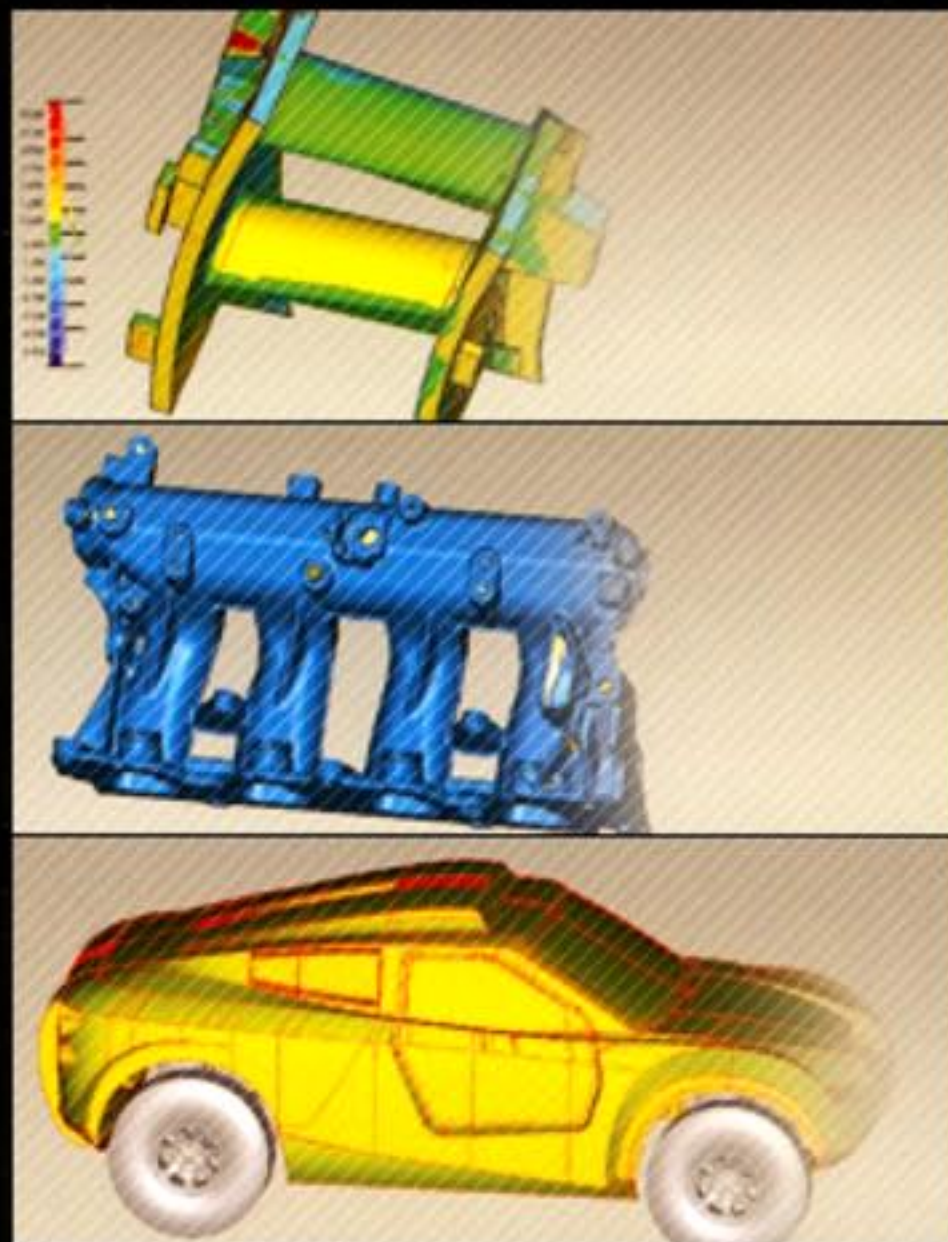
The driving force behind the Aquilon is Kreon Polygonia software. Polygonia can be delivered as a stand-alone application for point collection and processing or as a plug-in into the world's leading application software for 3D measurement, reverse engineering or quality inspection. Polygonia's open architecture guarantees direct access to a comprehensive suite of tools: operators can scan right inside their familiar application software, perform CAD-scan comparison or immediately create a CAD file from scanner data.

## Applications

Aquilon offers unprecedented versatility to applications including high accuracy measurement on technical parts and complex shapes requiring high point density for inspection or reverse engineering applications.

## For reverse engineering & inspection needs in:

- Aerospace components and turbine blade manufacturing
- Gap and flush measurement
- Tools, dies and moulds
- Product design & development
- Plastic injection



Kreon Technologies

Ester Technopole  
BP 6905  
87069 Limoges Cedex  
France  
Tel : +33 5 55 42 80 40  
Fax : +33 5 55 42 80 08  
Email : info@kreon3d.com  
www.kreon3d.com



The complete 3D scanning solutions