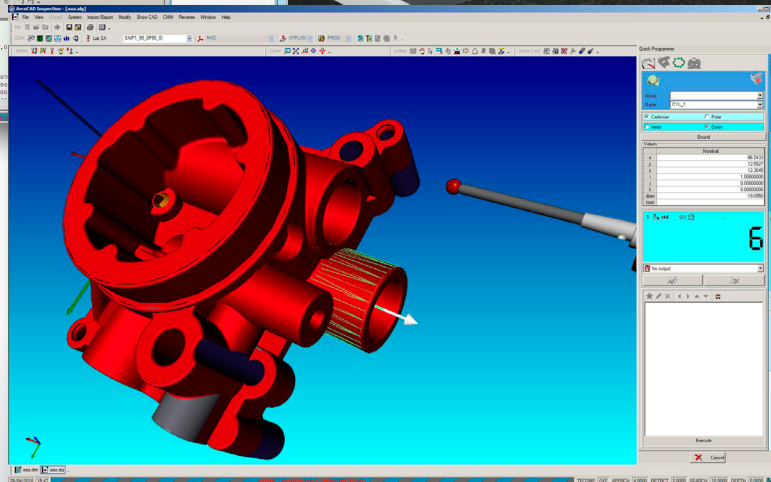
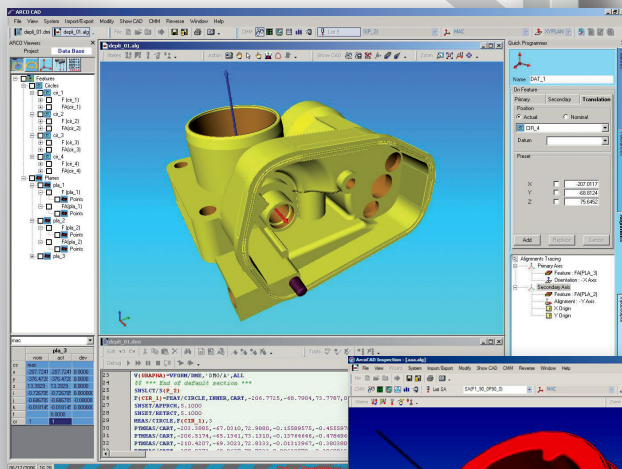




ARCOCAD

Measuring Software



...we are metrology

ARCO FAMILY: THE COMPLETE SUITE FOR



ARCOCAD FAMILY

The complete suite for metrology

Coordinate Measuring Machines, articulated arms, laser tracker, laser radar and many other high-precision metrological devices in a single package.

Disponibile nelle versioni seguenti:



ARCOCAD QUICK

simple and fast inspection of prismatic elements



ARCOCAD GRAPHICS

measurements, visualization and analysis of geometric elements



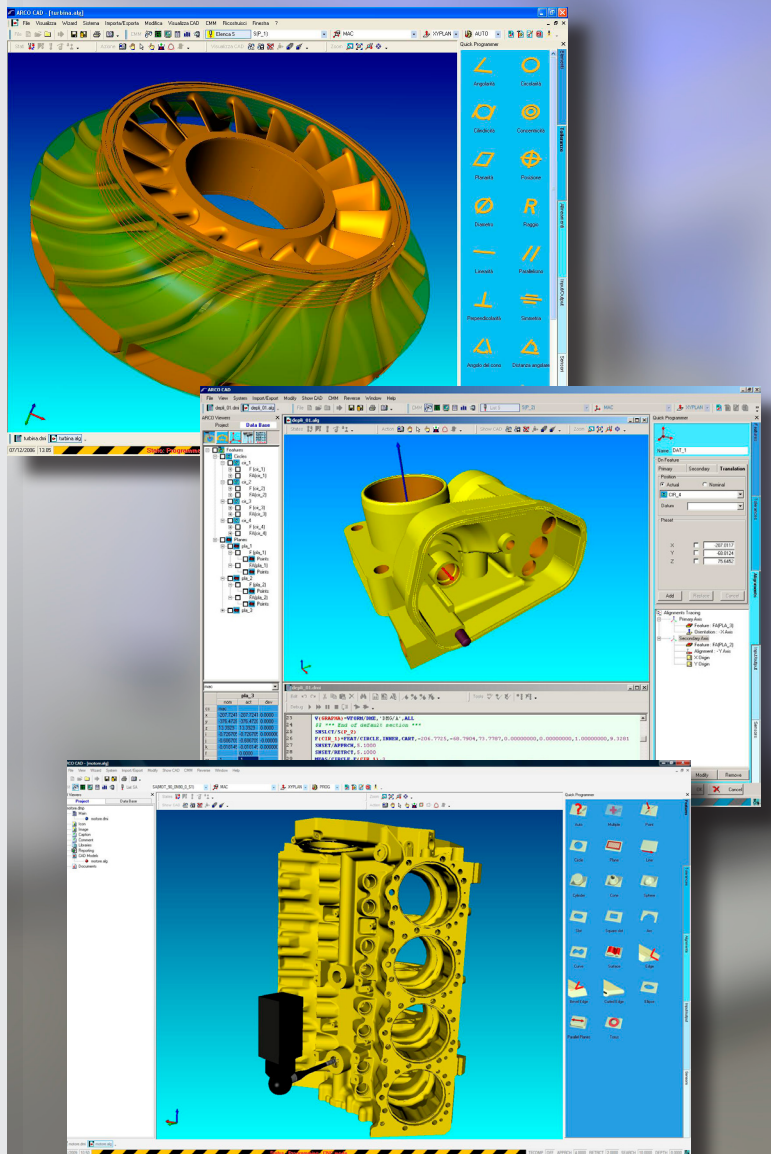
ARCOCAD CAD

geometrical and free-form inspection based on CAD models



ARCOCAD OFFLINE

complete suite for offline part programming



ARCOCAD supports:

✓ Manual Counting Card for CMM

- ENC 7480
- DEVA001
- Renishaw UCC



✓ CNC Controller for CMM

- NMC300
- CC3
- DEVA004
- PANTEC
- Renishaw T and S
- B3C



METROLOGY

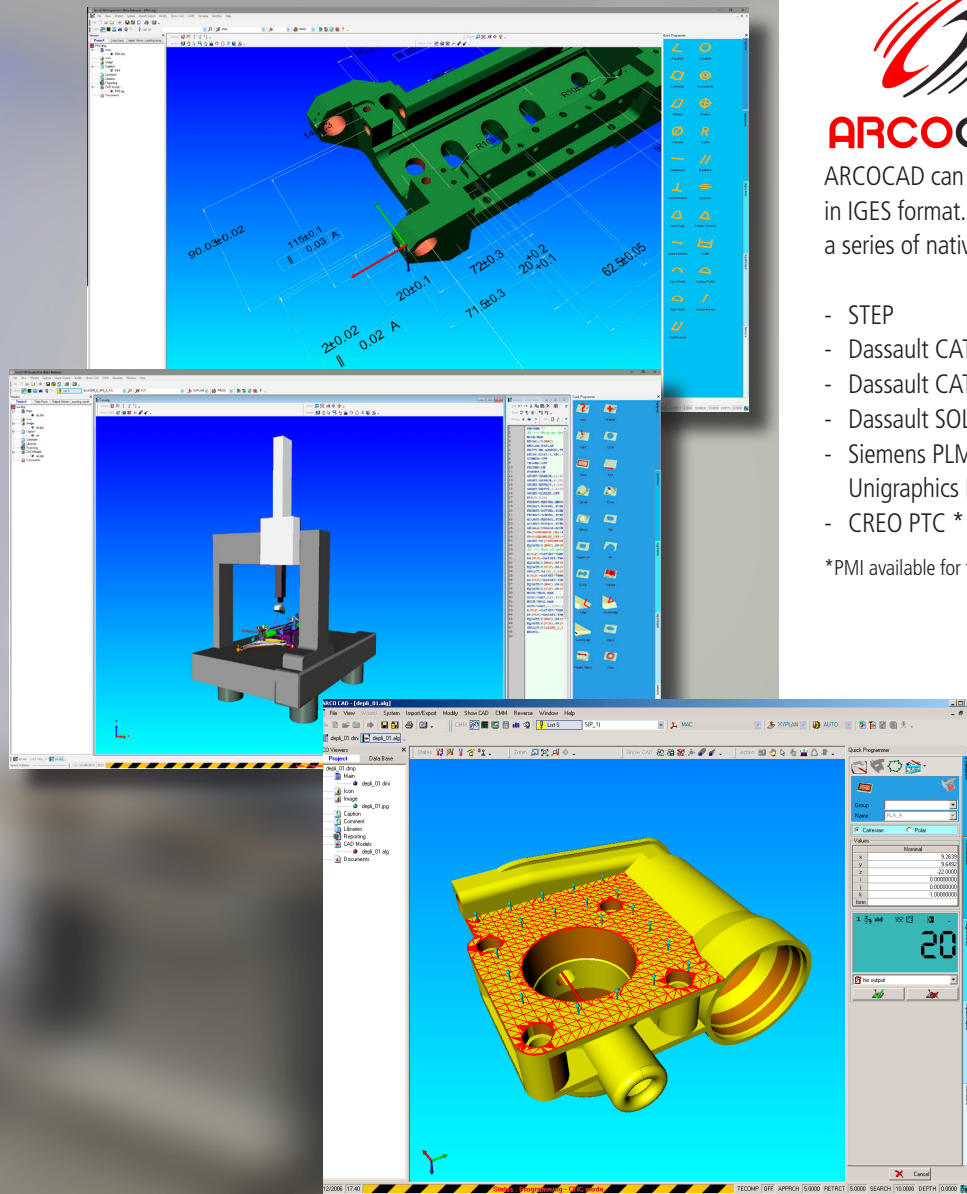


ARCOCAD

ARCOCAD can import CAD data files in IGES format. It can optionally import a series of native CAD formats:

- STEP
- Dassault CATIA V4
- Dassault CATIA V5 *
- Dassault SOLIDWORKS *
- Siemens PLM Software NX (in precedenza Unigraphics NX)*
- CREO PTC *

*PMI available for that format



Graphical Definition of the Probe

ARCOCAD offers the possibility of probe configuring:
trigger – TP2 – TP6 – TP7 – TP20 – TP200
scanning – SP25 – SP8 – SP600
Laser Probe – Nikon – Kreon – Precitrack

The generation of the probe qualification program is made easier by a wizard, which makes it automatic.
All the tool changers are supported as a standard feature.

Graphical Definition of the CMM

ARCOCAD gives the possibility to show the complete shape of the CMM, available for gantry and horizontal arm CMM.

Feature Extraction Click and define.
Choose your element, select it from the CAD, set the nominal, measure!

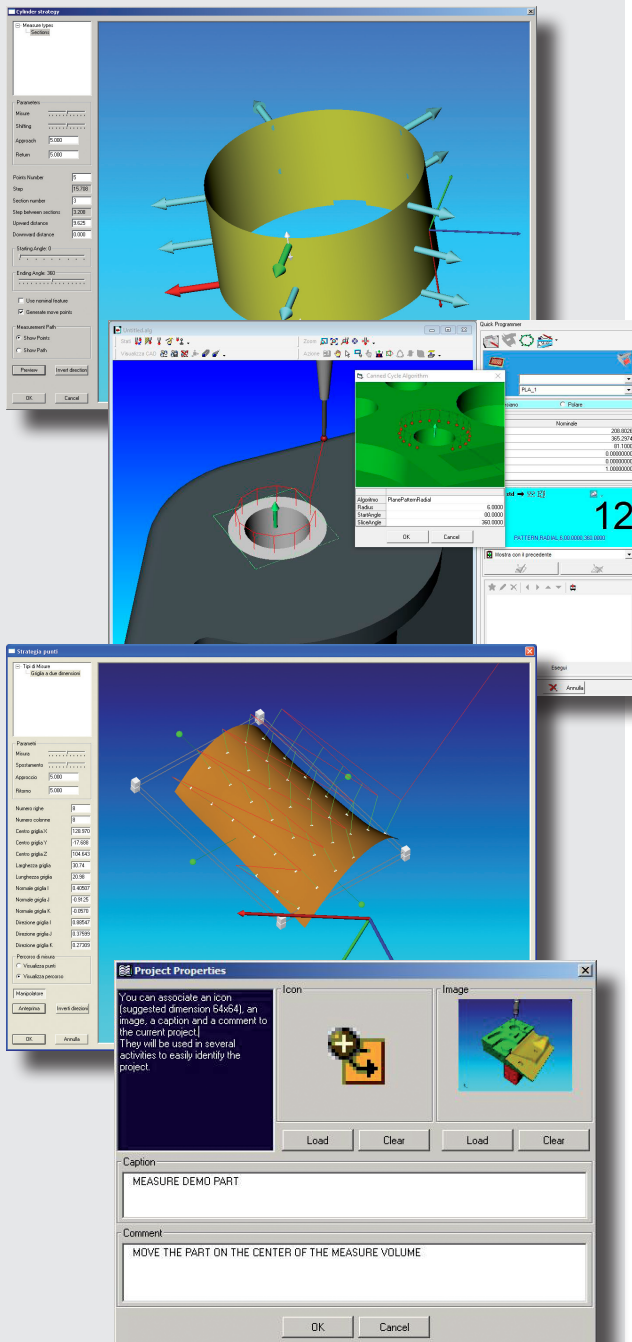


Articulated ARM

- Faro
- Kreon
- Romer
- Tomelleri
- RPS
- LK



A WIDE RANGE OF POWERFUL TOOLS



ARCOCAD Programming

With ARCOCAD the generation of a measure path of a part, even without the CAD model definition, is easy.

Programming from CAD model

ARCOCAD offers a series of useful tools for part programming:

- pick the points on the CAD surface and automatically generate the path inspection program;
- use strategies to easily measure any features;
- in any moment it is possible to switch the status of the CMM from a real measure to an Off-line mode to obtain a complete simulation of the measure cycle.

Project properties

It is possible to save in an ARCOCAD Project a complete set of parameters:

- DMIS program
- CAD input data file
- REPORTER choice of the graphical outputs
- ICONS for a quick selection of the program
- IMAGES for part identification
- DESCRIPTION of probe mounting

All these parameters can be saved in the PROJECT, making possible to save and restore it quickly and easily.

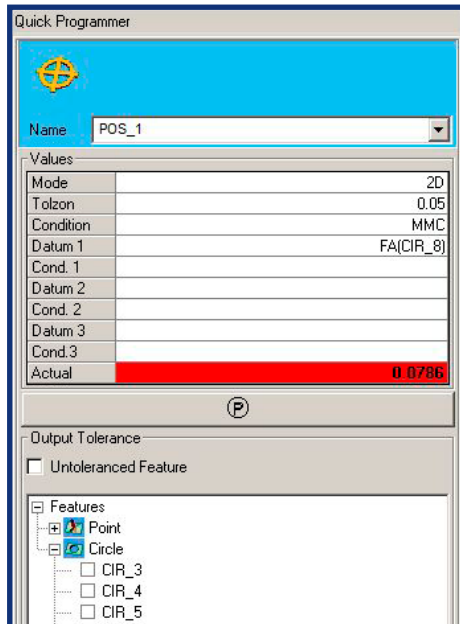
Self Teach Panel

The inspection task is performed efficiently through few functions:

- Feature Measurement
- GD&T Tolerance
- Part Alignment
- Output mode
- Probe definition



ACCORDANCE TO INTERNATIONAL STANDARDS



Alignment

ARCOCAD offers a variety of options for alignment:

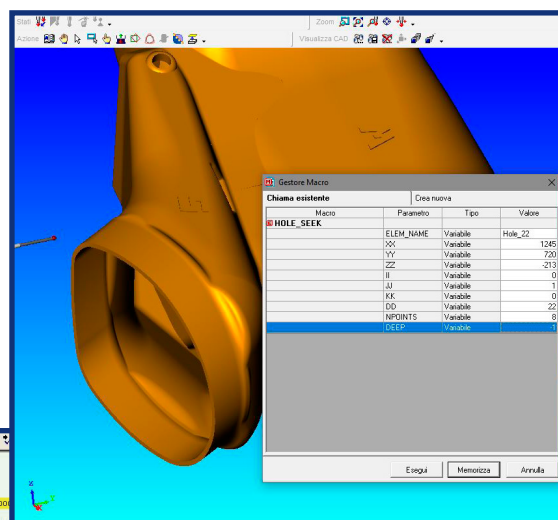
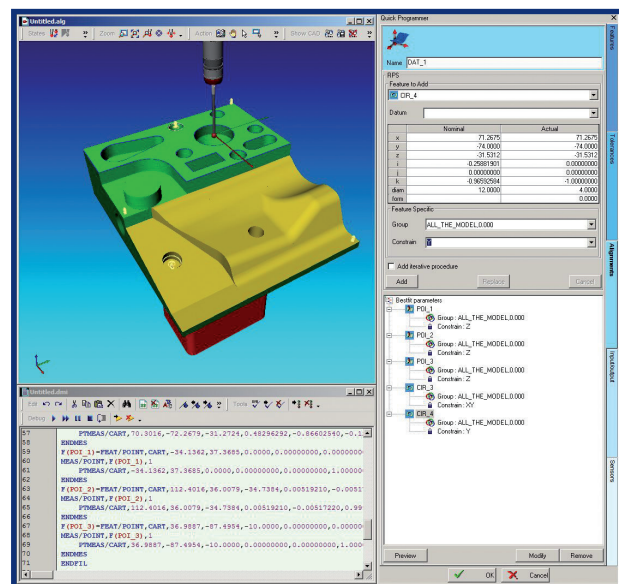
- Alignment of Features
- Translation and rotation
- Best Fit
- RPS
- Rotation matrix - import /export
- Datum Definition
- Plane and 2 holes

ANSI/ASME GD&T Tolleranze

ARCOCAD allows the application of geometrical tolerances in accordance to international standards.

It is possible to define the data reference frame for each tolerance range by using specific tools to define the minimum and maximum tolerance for each material.

The tolerance data may be directly sent to the program or showed in a preview in order to allow a quick analysis of the part.

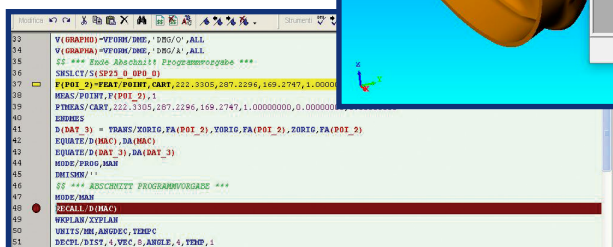


DMIS

The ARCOCAD Engine is compatible with the latest version of DMIS standard.

The code is read directly by the software.

DMIS allows program exchange with other systems.

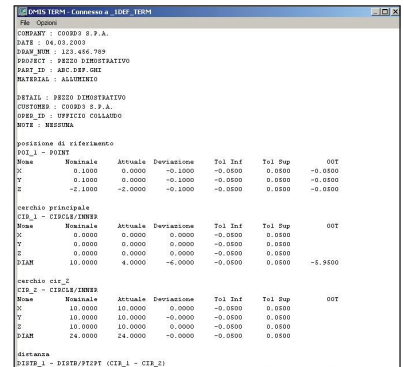
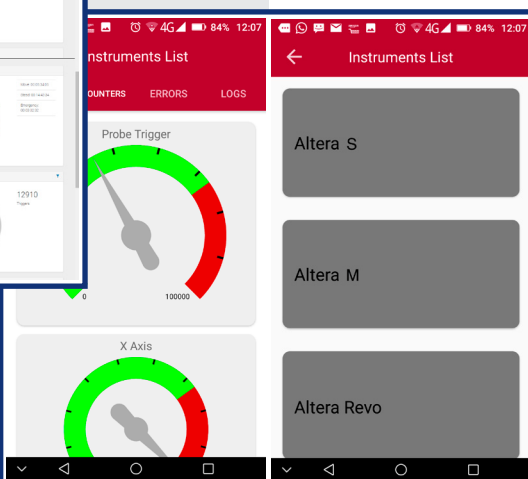
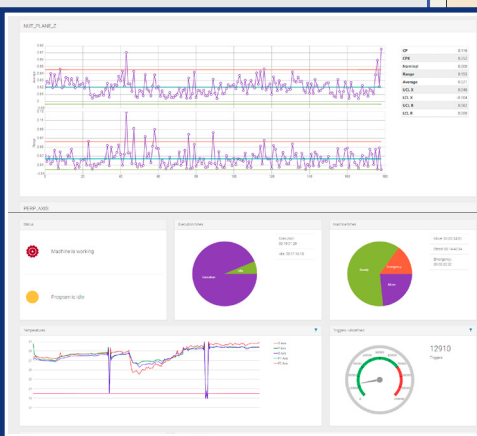
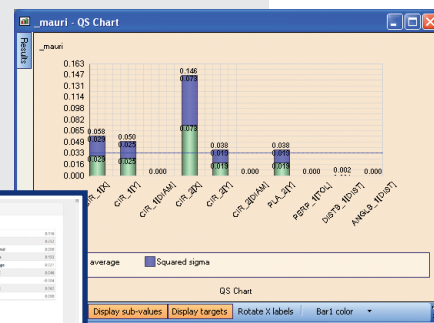
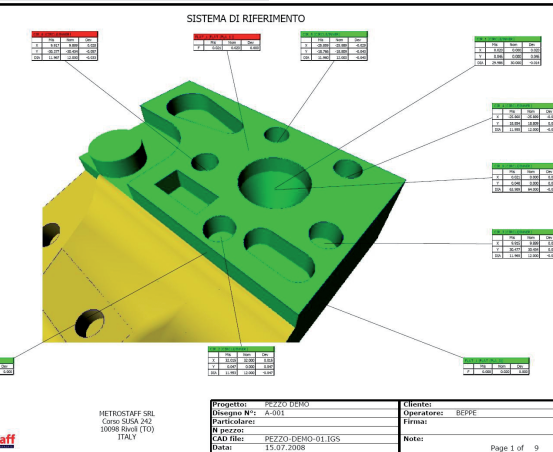
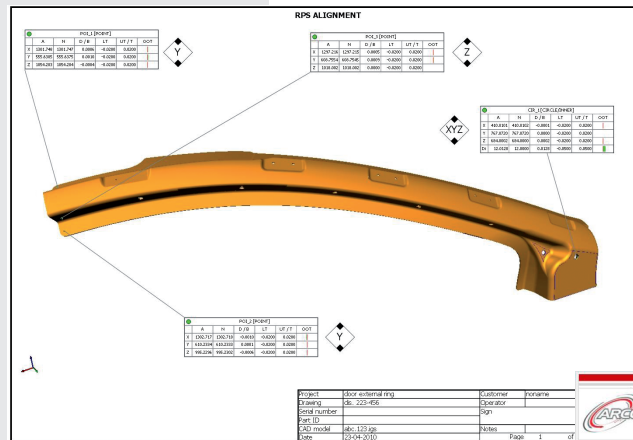
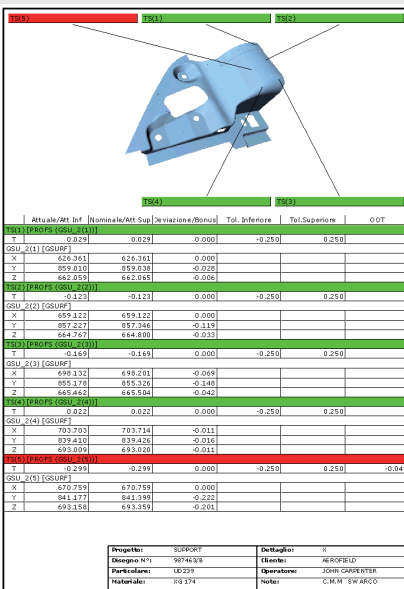


REPORT AND STATISTICAL ANALYSIS

Reporter

We have introduced new functionalities to make the report definition easier and quicker.

With ARCOCAD it is possible generate different types of reports: textual, graphical, with table and callouts, reports automatically generated in Excel format using a full customized template.





ARCOCAD QUICK

This version is the base product: it allows the measurement of prismatic elements following a guided procedure, and it also allows the execution of complex part programming.



ARCOCAD GRAPHICS

This version consists of the QUICK version with additional graphical tools. It allows a view of the measured element in the graphic area and facilitates the selection of elements for the creation of an evaluation report.



ARCOCAD CAD

This version is the powerful version of the ARCO Family. Is possible to load the CAD model of the part with a import of the IGES file. ARCOCAD permits to measure all kind of elements: geometrical and surfaces. With the graphics tools the part program generation is fast and easy.



ARCOCAD OFFLINE

This version allows the creation of a complete part program using the CAD DATA of a part, saving time when the part to be measured is not available. It allows the setting of probe configuration, the generation of measure paths, the simulation of a measuring cycle. Once the part is available the time required for measuring is reduced to a minimum.



ARCOCAD CLOUD

ArcoCloud allows to extend the use of ARCOCAD to no contact probe, laser probe able to keep big data in a short time.

With this option is possible:

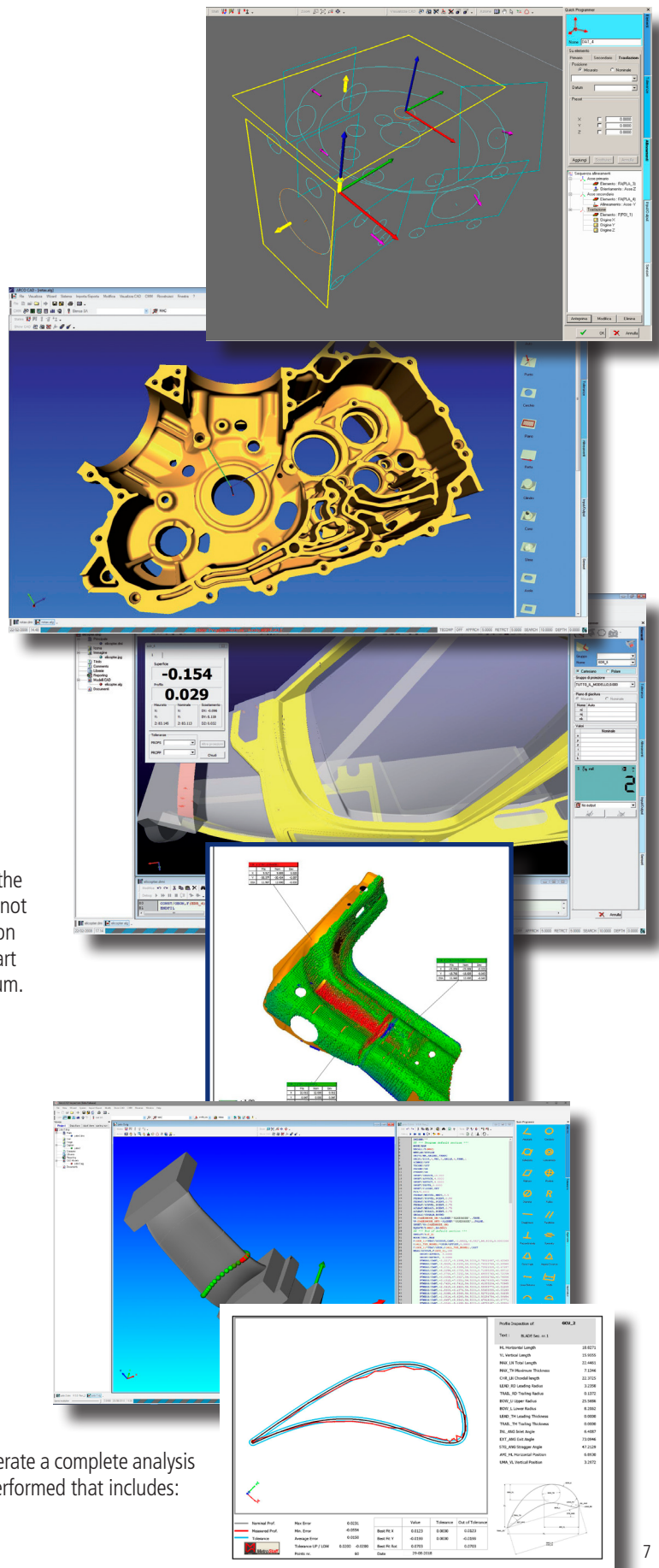
- Evaluate geometrical elements from a points cloud
- Define a colored map able to show in a simply way the error distributions
- Apply some different filters and export the point cloud



ARCOCAD BLADE

ArcoBlade is an option of ARCOCAD and give the possibility to generate a complete analysis on the turbine blade. A complete analysis of the blade section is performed that includes:

- Chordal length
- Maximum thickness
- Radius of the two sides entrance and exit.

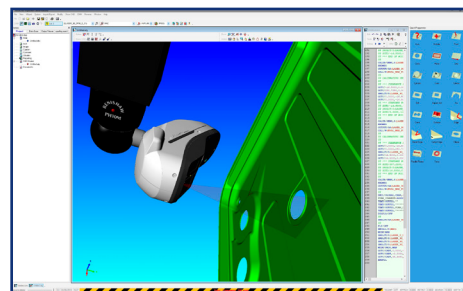




- Cylindrical gear, external teeth right and helical, internal right teeth
- It is possible to use trigger and continuous scanning probe
- The graphical report is done in according to the DIN3961-3962 standard
- For each controlled characteristic is evaluate a quality IT indicator.



With this option ARCOCAD adds the possibility to use multiple arms CMM. The MultiARMS option gives to ARCOCAD the possibility of connecting more measure instruments. It is possible to share and exchange reference system, measured elements, synchronization command. Every part of the system can operate by itself or work connected with others at any time.



	 ARCO CAD QUICK	 ARCO CAD GRAPHICS	 ARCO CAD CAD	 ARCO CAD OFFLINE
Misura di Misure	●	●	●	
Misura di Perimetro e Area	●	●	●	
Visualizzazione Scansione 3D	●	●	●	
Compatibilità con i Sistemi di Riferimento	●	●	●	
Compensazione dei Dati di Riferimento	●	●	●	
Doppio Braccio	●	●	●	
DMIS Editor	●	●	●	●
Beni Tecnici di Parte Apprendimento	●	●	●	●
Previsione del Taglio	●	●	●	●
Riferimento di Sistema	●	●	●	●
Algoritmi di Analisi dei Dati	●	●	●	●
Analisi dei Dati	●	●	●	●
Pathfinder Parametrico Avanzato	●	●	●	●
Data Viewer	●	●	●	●
Gestione dei Robot e dei Changers	●	●	●	●
Text - Grafica HTML Output	●	●	●	●
Export dei Dati in IES e altri formati	●	●	●	●
Visualizzazione grafica del volume del CAD Model		●	●	●
Graphic Output da grafica		●	●	●
Applicazione di Template agli Elementi Misurati		●	●	●
Visualizzazione dei Riferimenti e dei Sistemi di Riferimento		●	●	●
Use of the Integrated Structure Analysis and Program		●	●	●
Graphic Output degli Elementi Misurati		●	●	●
Import of the Native CAD Data			●	●
Editing del CAD Layer del Modello CAD			●	●
Editing dei Gruppi			●	●
Esportazione di Elementi CAD del Modello CAD			●	●
Preparazione del Programma CAD Data dal Modello CAD			●	●
Utilizzo di una Segue per il CAD Data del Modello CAD			●	●
Creazione di Sistemi di Riferimento e di Forme Libere			●	●
Misura di superfici e di Bridge			●	●
Identificazione di Profili da CAD Data			●	●
Misura di Profili			●	●
Generazione di Sistemi di Riferimento di tipo Best Fit			●	●



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