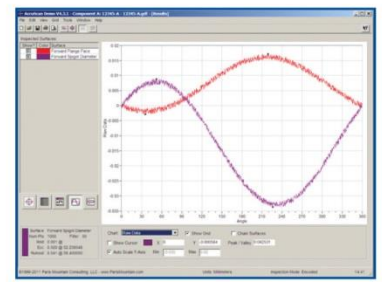
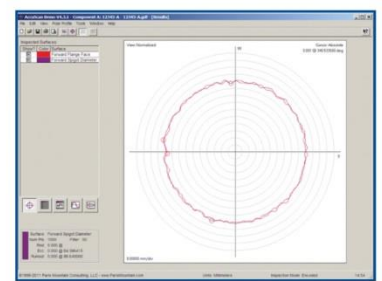
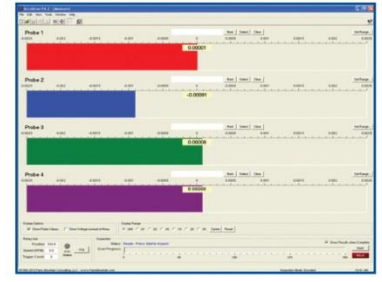


15.0 PCD



AccuScan System

INTEGRATED MEASUREMENT AND ASSEMBLY PLATFORMS

Circular geometry inspection and assembly system for mechanical assemblies such as aircraft engines, industrial gas and steam turbines

AccuScan™ capabilities delivers new levels of accuracy, flexibility and performance over a wide range of inspection and assembly applications.

IntelliProbe Corrects For Extreme Setup Errors

Software algorithms address profile distortion due to part misalignment, “intelligent probing” corrects for part off-centering errors of up to 2% of the part radius with negligible error.

Distribute Results Easily

Inspection Templates and Inspection Data Files are easily distributed via email for analysis using the free downloadable viewer or via PDF generated reports and CSV files standard.

Reduces Inspection Time by up to 90%

AccuScan’s ability to measure 3,600 data points on up to 8 surfaces simultaneously per revolution will significantly reduce your process times compared with other available methods.

Unlimited Number of Surfaces

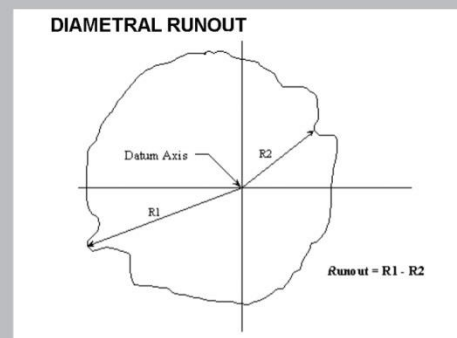
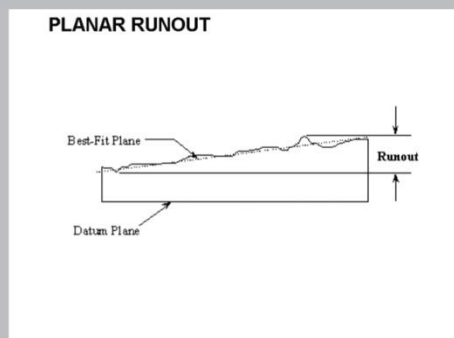
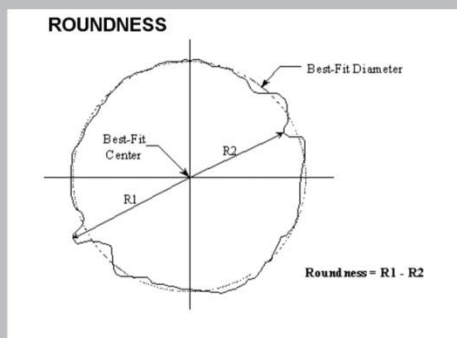
Up to 8 surfaces can be measured simultaneously with the total number of surfaces that can be measured unlimited.

Used To Measure Circular Geometry

Designed for the collection and analysis of circular geometry inspection data including Roundness, Eccentricity, Diametral Runout, Planar Runout, Circular Flatness and Parallelism.

Probe Types

AccuScan™ can be supplied with probes to best suit your application and can include LVDT, Half Bridge, Laser, Wireless Laser, Eddy Current and Capacitance.



Advanced Stacking Software For Predictive Modelling

IntelliStack™ is software designed to solve the mathematical problem of how to best assemble a multi-stage rotor assembly. The Rotor Stacking Program can be used for the assembly of Industrial Gas Turbines, Steam Turbines, and Aircraft Engine Rotors.

Sub-Micron Performance

iMAP offers extremely high levels of accuracy boasting sub-micron measurements and repeatability.

Shop Floor Compatible

iMAP has been specifically designed for shop floor use and employs B89.3.1 Standard - Profile Filtering to remove all background interference.

Process Reference Standard

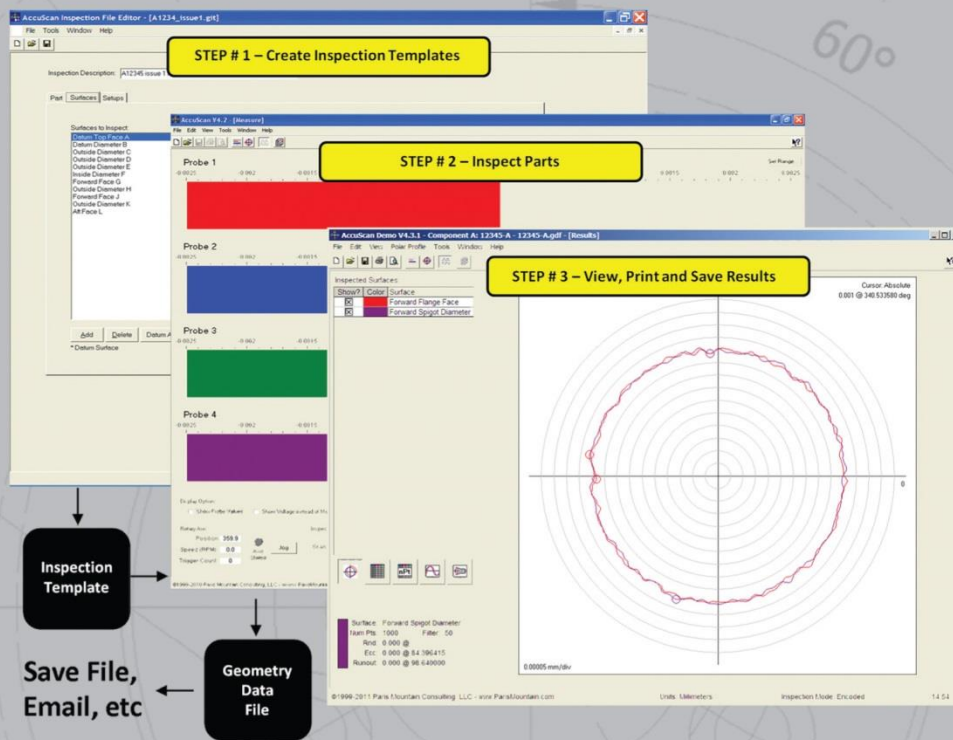
The sub-micron circular geometry reduces process measurement uncertainty to a level where AccuScan can be considered your measurement reference standard.

AccuScan™

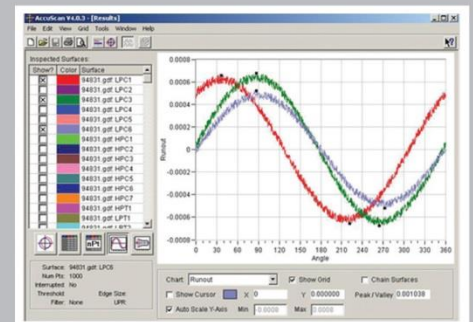
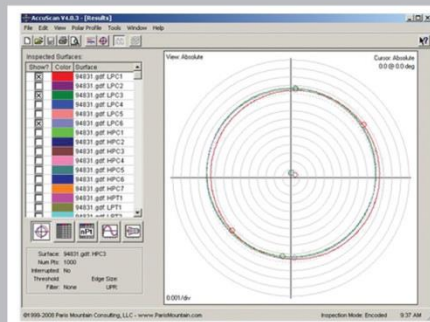
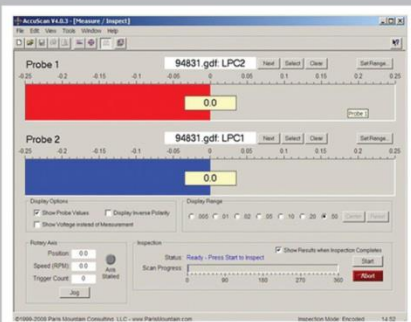
(Circular Geometry Inspection Software)

The data collection software AccuScan™ is a flexible system that is configured with two, four or eight contact and or non-contact probes and is a full-featured Windows application designed for the collection and analysis of circular geometry inspection data. Circular geometry is critical in the design of certain types of machines and mechanical assemblies, such as aircraft engines, industrial gas and steam turbines.

The simple and intuitive software enables any operator to quickly and easily inspect the type of complicated parts normally associated with gas turbines. The 3 simple steps will reduce your existing inspection process by up to 90% over other methods.

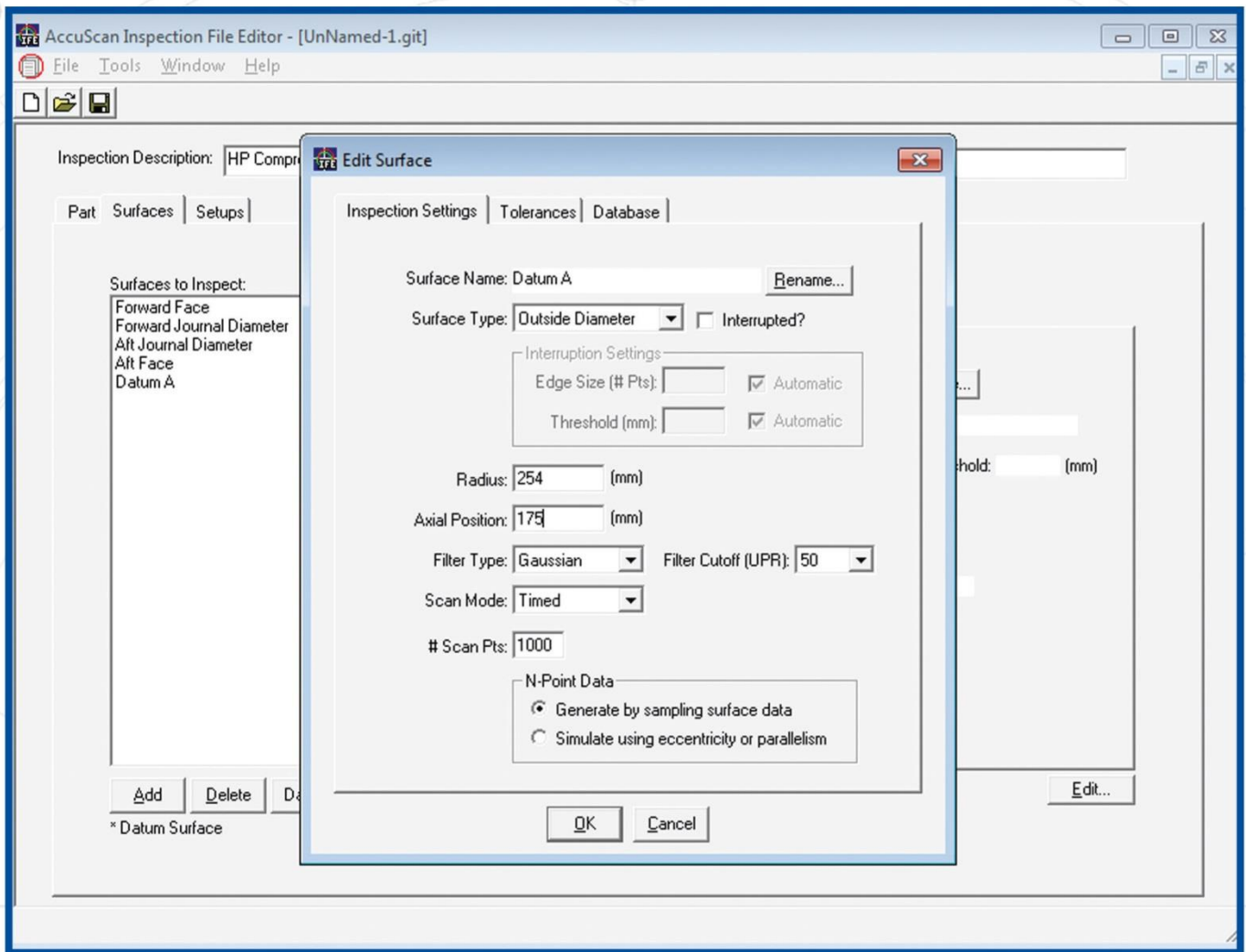


Inspection results are displayed on a range of numerical and graphical screens to enable the operator to quickly and easily interpret the shape of the part with conformance clearly indicated via red or green indicators.



AccuScan IFE™

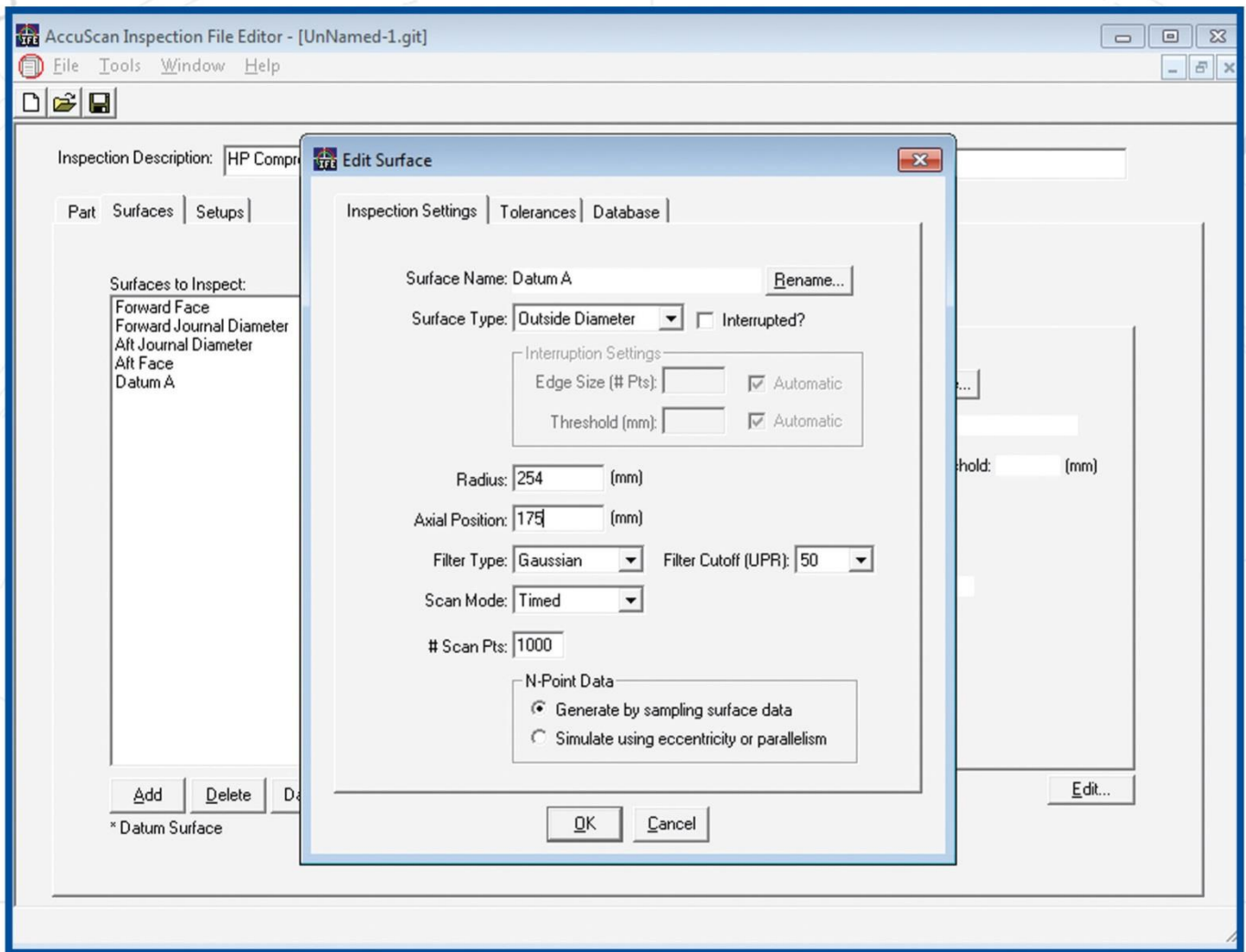
(Inspection File Editor)



- Used to program inspection “Templates” for part inspection
- Each surface on the part is defined
 - Surface type
 - Data collection mode
 - Interruptions
 - Filtering
 - Number of data points
- As many surfaces as necessary
- Can be used offline
- Templates can be saved, reused, emailed to suppliers

AccuScan™

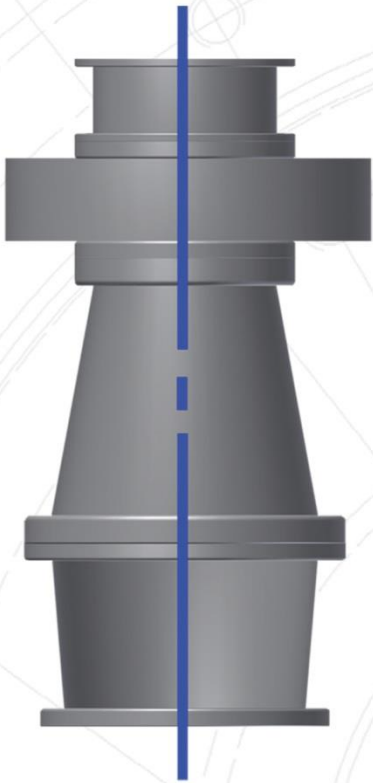
Results Screens (Polar Plot)



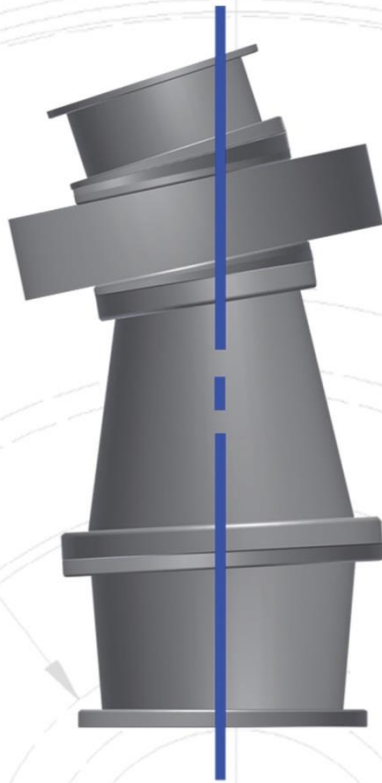
- Used to display the measured surface results
- Once a surface has been inspected, it is automatically assigned a colour and listed here results screens include
 - Polar Chart View
 - Calculated Results View
 - N-Point Data View
 - Inspection Report View
 - Strip Chart View
 - Rotor Cross Section View
- Surface definitions can be changed at any time; results are recalculated dynamically

IntelliStack™

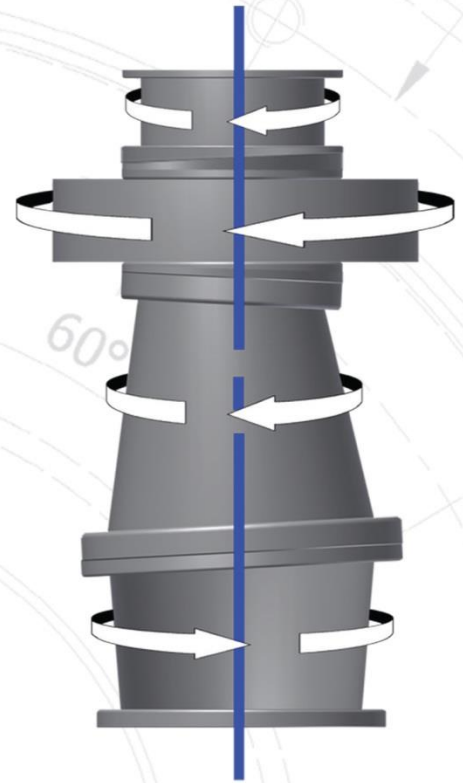
Advanced stacking software for predictive modelling of multi-part rotor assemblies



Theoretical Rotor Assembly



Un-Corrected Rotor Assembly



Optimised Rotor Assembly

IntelliStack™ - software designed to solve the mathematical problem of how to best assemble a multi-stage rotor assembly.

IntelliStack™ can be used for the assembly of Industrial Gas Turbines, Steam Turbines, and Aircraft Engine Rotors and is fully compatible with all AccuScan™ inspection systems and will significantly improve rotor assemblies by iteratively calculating each part's optimal position with respect to its neighbours and its effect on overall rotor quality.

Stacking parameters, including number of parts per assembly, number of allowable positions for each part both with no theoretical maximum, stacking methodology (e.g. runout-driven or balance-driven) and more, can all be configured by the user.

Stacking parameters for each part can be pre-programmed at the same time as inspection parameters using **AccuScan IFE™**, inspection results will then be "stack-ready" when generated by AccuScan™.

Re-usable Stacking Templates can be created and used for repetitive assembly scenarios. By pre-programming stacking parameters and using Stacking Templates, just a list of part IDs are needed to run a stack.

Sub-assembly stacking, partial stacking, known or locked-position stacking, and part-replacement stacking are all scenarios that can be accomplished using IntelliStack™. Benefits include reduced assembly time, avoidance of costly rotor teardowns, lower runout and unbalance, and a better understanding of machining process capabilities and their effects on rotor assembly.

AccuScan™ features have been designed to get the job done.

Fast and Simple

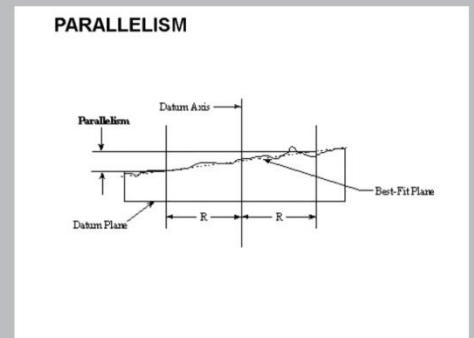
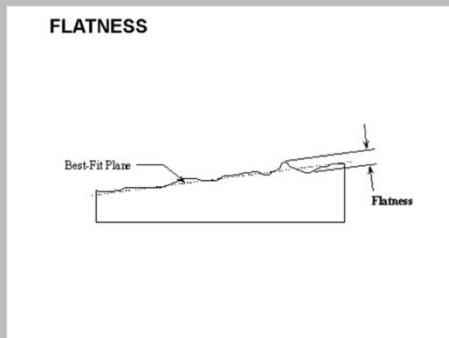
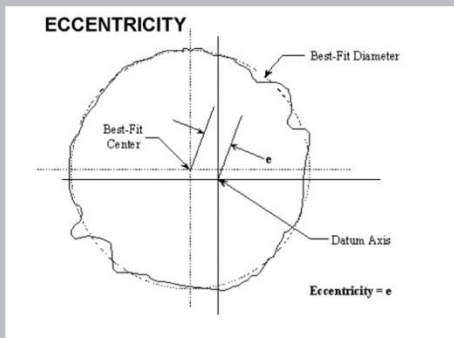
The simple and intuitive full-featured Windows software enables any operator to quickly and easily inspect the type of complicated parts normally associated with gas turbines.

Integrated Help

Clicking the Help button located in the top right hand corner of any screen gives the operator instant access to the comprehensive users instruction.

Internal Probe Calibration

Probe calibration is accomplished using the Probe Calibration Wizard, which is accessed via the Tools menu. The calibration is a multi-step process, and instructions are displayed at each step.



Results Are Recalculated Dynamically

Raw inspection data is collected and stored so datum's, surface definitions and measurement units can be changed at any time with results being recalculated dynamically.

Out-Of-Tolerance Flagging

Out-Of-Tolerance Flagging quickly identifies to the operator non-conforming parts.

Programming Can Be Done Off-Line, On The Fly, Or Both

Inspection templates can be generated at the machine using AccuScan™, independently on any PC anywhere in the world using AccuScan IFE™ or a combination of both.

“You can know a company by the companies it keeps”



ALSTOM



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Snecma
SAFRAN Group



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Interested to know more about the ground-breaking AccuScan™ range of inspection systems?

Call: +44 (0)1225 426206

Email: sales@rpiuk.com

Visit: www.rpiuk.com

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