T: 03 9946 1086 or M: 0418 399 757
42 James St Northcote Vic AUS 3070
www.scan-xpress.com.au

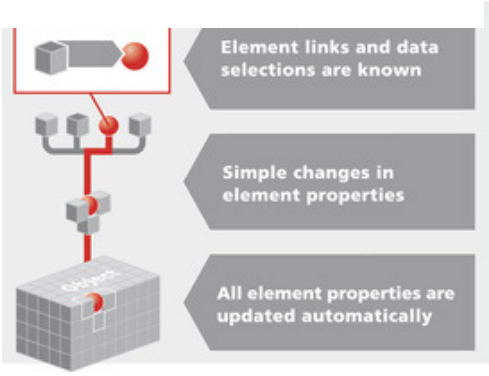
GOM Inspect Professional Fact Sheet

The new approach of parametric inspection

GOM Inspect Professional is process-safe, parametric, traceable evaluation software for dimensional analysis of 3D point clouds from white light scanners, laser scanners, CTs and other sources.

Parametric inspection

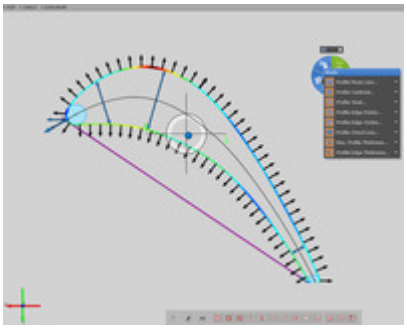
Instead of using a macro engine, every single element knows its path of creation within the software structure. All actions and evaluation steps are completely traceable and interlinked, and can be easily modified or adjusted. A one-button solution updates all dependent elements automatically after changes.



Software Highlights

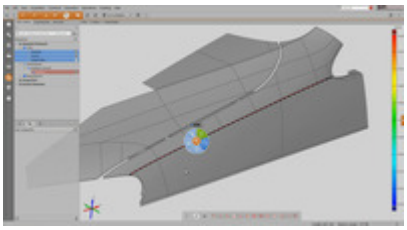
Blade Inspection

The GOM software offers complete inspection workflow, from the initial measurement to full evaluation and creation of the measurement report allowing full interaction with all evaluation functions as well as with GOM's parametric inspection. The software provides functions for turbine blade inspection based, for example, on 2D sections.



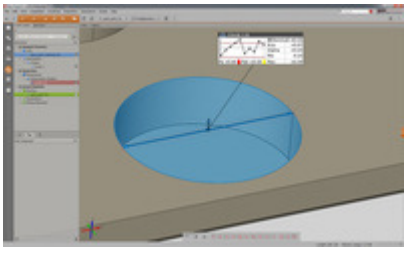
Curve based inspection

GOM Software closes the gap between point-based and full-field inspection. Full-field digitized data is used to apply new construction functions for curves and to visualize individual features. This achieves a high information density with simple representation.



Trend: SPC & Deformation Analysis

GOM's established parametric inspection approach is applied to multiple data sets for trend, SPC and

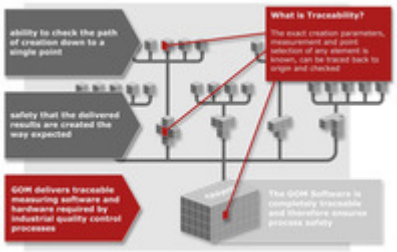


T: 03 9946 1086 or M: 0418 399 757
42 James St Northcote Vic AUS 3070
www.scan-xpress.com.au

deformation analysis. This allows simple full-field data analysis in one project on multiple parts or stages and complete parametric inspection.

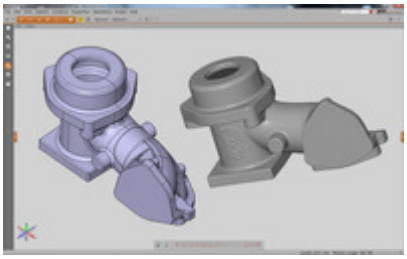
Traceability

GOM Inspect Professional offers deep and comprehensive traceability, from result back to element creation, to increase overall process safety. The exact creation parameters, measurement and point selection of any element are known and can be traced back to origin and checked.



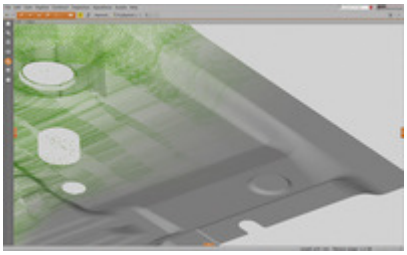
Teaching By Doing

With GOM's Teaching By Doing, all evaluation steps are available without the need for scripting, advanced planning or user intervention. Teaching By Doing reduces programming time to zero. The result is identical workflows for single and multiple part evaluation, saving time and costs.



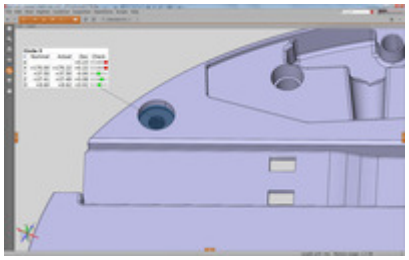
Evaluation software for point clouds

GOM Inspect Professional automatically converts point cloud data into 3D mesh data and offers extensive post-processing functionalities. Inspection is performed by comparing scanned data to nominal CAD and analysing false-colour plots, 2D sections or multiple inspection points.



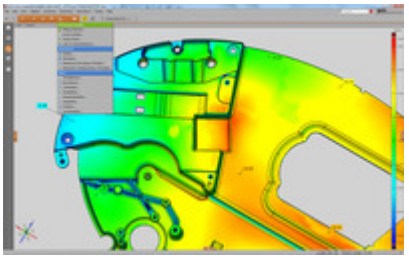
Measuring Principles

GOM's inspection approach is based on measuring principles. A measuring principle defines the method used to create an actual element and it assures the automatic link between nominal and actual data.



I-Inspect

GOM Inspect Professional offers freely configurable measuring principles accessible via I-Inspect. I-Inspect stands for intelligent inspect and is the operator's guide



T: 03 9946 1086 or M: 0418 399 757
42 James St Northcote Vic AUS 3070
www.scan-xpress.com.au

through the inspection process. Interaction with the software is reduced to one button, thereby saving overall time and costs for inspection tasks.

Reporting for first article inspection

Measuring reports are adapted to the inspection task using fully customizable report templates. Tables are available, e.g. in standardized VDA format.

All measuring results can be shared with customers and colleagues using the free GOM Inspect 3D viewer.

Compatible with Windows 7

GOM Inspect Professional has been designed to fully utilize modern computer hardware. The software contains fast and efficient post-processing and analysis algorithms which are optimized for multiple cores and hyper threading, improving performance and reliability. GOM Inspect Professional is fully compatible with Windows 7® Operating System*.

T: 03 9946 1086 or M: 0418 399 757
42 James St Northcote Vic AUS 3070
www.scan-xpress.com.au

Features

Evaluation tools for an extensive analysis of parts and components
Import of point clouds: ATOS, STL, ASCII, ...
Polygon mesh generation: smoothing, thinning, hole filling, ...
CAD Import: CATIA V4, CATIA V5, PRO/E, Unigraphics, IGES, STEP, JT-Open, Parasolid, ...
Measurement plan import: ASCII, CSV, FTA, ...
Multiple alignments within one project: automatic pre-alignment, RPS, 3-2-1, plane-line-point, best-fit, hierarchical, ...
CAD comparison: surface, sections, points, ...
CAD-based primitive generation: lines, planes, circles, cylinders, cones, ...
2D section-based analysis
Inspection functions: dimensions, virtual calipers, angles, diameters, ...
GD&T analysis based on ISO 1101 and ASME Y14.5 standards
Reporting: first article inspection, tables (e.g. VDA), free definable report templates, ...
GOM Inspect: Free 3D viewer