

AxelSystems

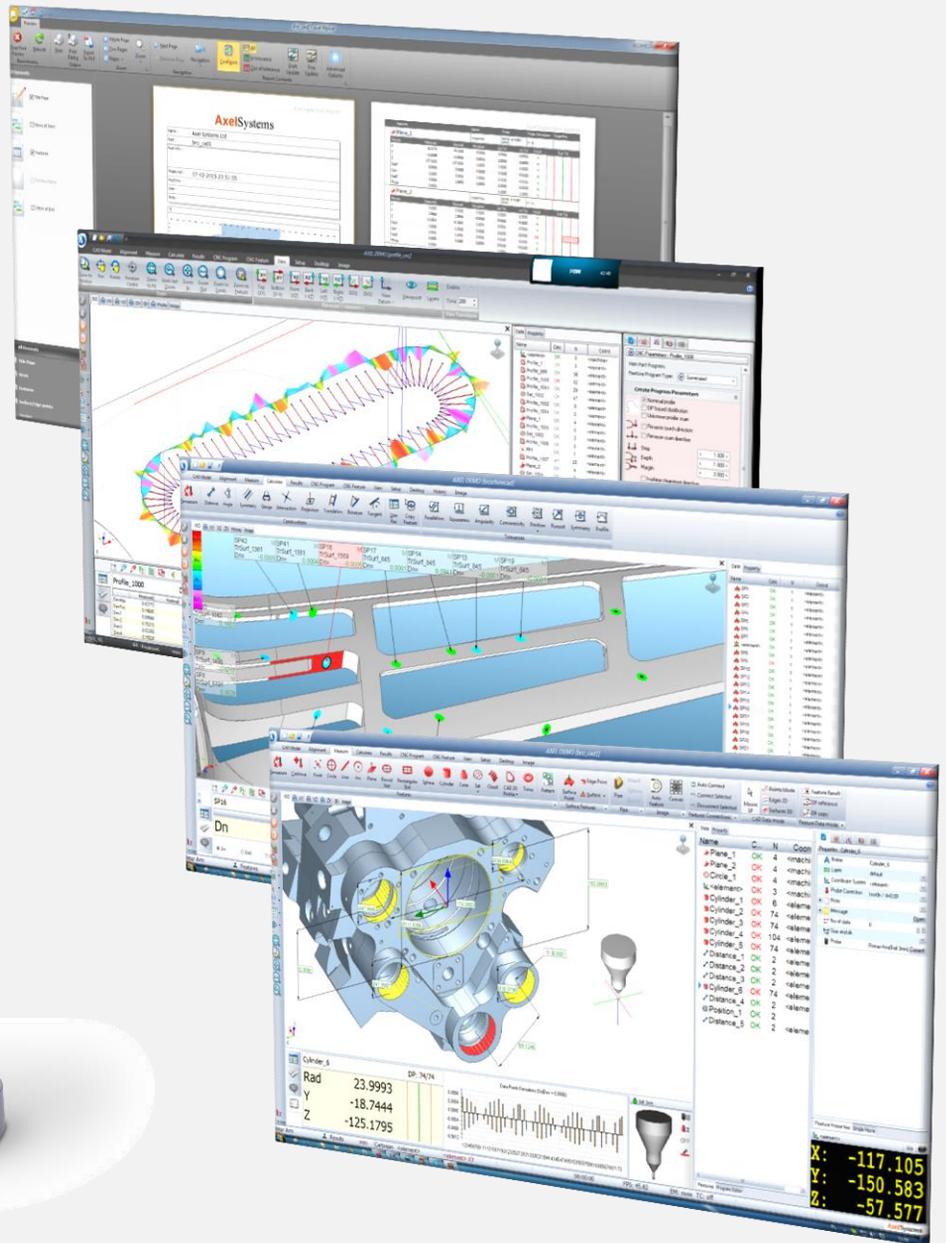
Complete Solution For
Effort Free Measurement

UNIVERSAL INSPECTION SYSTEM

The compact portable system for shop-floor use



Romer Absolute Arm Compact



Axel 7 STUDIO

www.axelsystems.com

Completely portable inspection system for simple and fast all-purpose 3D measurements.

Axel Systems combined the most portable CMM – the ROMER Absolute Arm Compact – with Axel 7 STUDIO for the inspection of small and medium parts. Simplicity of operation in both the arm and Axel 7 allow you to take measurements directly in the manufacturing environment.

ROMER Absolute Arm Compact

A portable arm is a good investment. The time required to train users is minimal – even unpractised personnel will produce reliable measuring results in a short time due to the user-friendliness of the ROMER Absolute Arm. Unlike many metrology devices, the ROMER Absolute Arm does not require warm-up time or initialization, thanks to a stable carbon fiber structure and industry leading Absolute encoders.

AXEL 7 STUDIO

Axel 7 STUDIO provides the tools to perform effective part inspection and to identify minor issues before they turn into costly problems.

Industries

- Precision machining
- Casting and forging
- Tooling and dies
- Automotive and aerospace
- Plastic parts

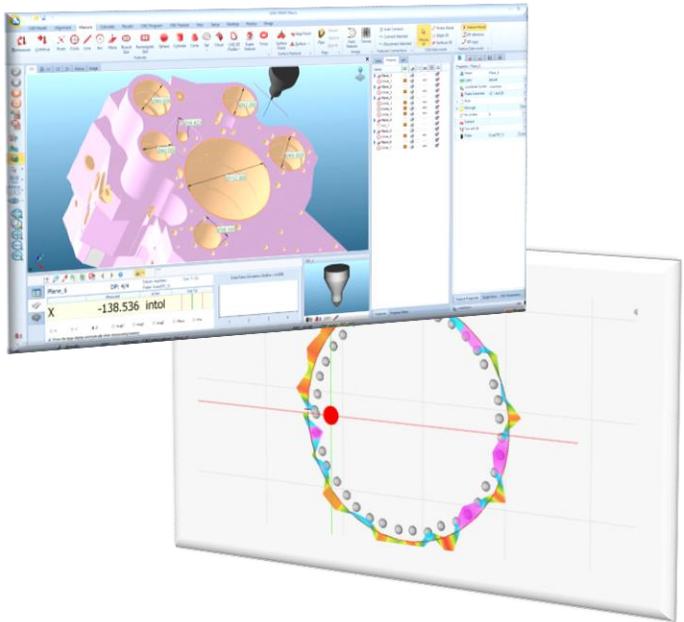
Applications

- On-machine verifications
- Machined part inspection
- CAD to part comparison
- Fixture positioning
- Digitising
- In-process quality checks
- Part alignment and setup



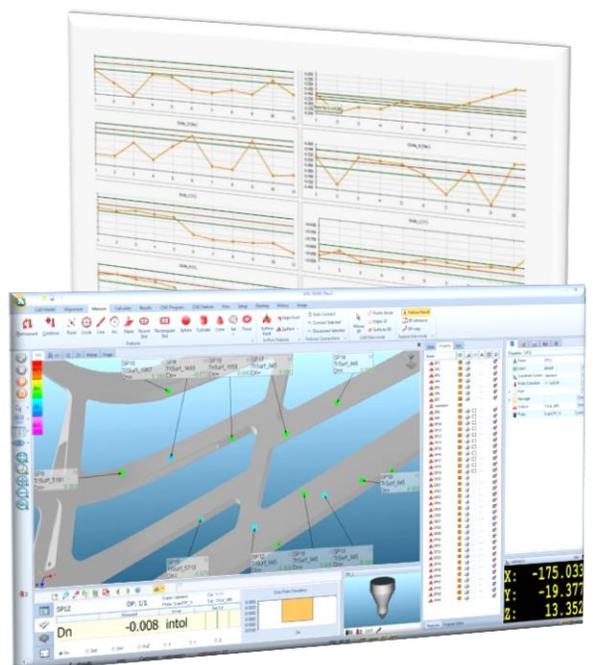
FEATURES AND BENEFITS

- ❑ **Integrated Inspection** - Geometric , surface and tube inspection within single metrology framework
- ❑ **PTB Certification** - Algorithms tested with PTB and NPL standard data sets
- ❑ **Multiple Coordinate Systems** - extensive alignment options galleries with graphical representation in the Measure Window.
- ❑ Geometric Dimensioning & Tolerancing
- ❑ **Intelligent constructions** - with context sensitive results
- ❑ **Calculated results** – non standard results can be calculated from user defined formulas



- ❑ **Reverse engineering** – SET feature for performing part digitizing.
- ❑ **'Go mode'** - for running manual measurement sequences. Ideal tool for inspecting component batches.
- ❑ **Go mode auto view** - play to enhance feature inspection
- ❑ Export results to **MS Excel and HTML** with multiple templates. User configurable, fully featured text & Graphical Report Generator

- ❑ **Free form Part alignment** – extensive methods for aligning free standing part using 3D best-fit method, multi-entity or Reference Point System (RPS)
- ❑ **CAD Interfaces** - Interfaces available to various CAD formats – DXF / IGES / CATIA v4 & 5 / ProEngineer / STEP / VDA
- ❑ **Surface Inspection** – Surface Point, Surface Edge & Surface Block inspection to show deviations from the nominal CAD model
- ❑ **Global Metal thickness compensation** – for CAD models with only single 'A' surface, material thickness can be applied to offset results for 'B' surface.
- ❑ CAD feature interrogation & capture / layer & CAD entity control



FEATURES AND BENEFITS

- ❑ **Absolute Encoders** – Referencing and warm up time was for yesterday – just switch the arm and measure.
- ❑ **Lightest Portable Arm** – from 7.1 kg.
- ❑ **Biggest Measurement Volume** – Size does matter. The ROMER Absolute arm is available in seven lengths between 1.5 m and 4.5 m.
- ❑ **SmartLock** – If the ROMER Absolute Arm is not in use, lock it comfortable and safely.
- ❑ **Romer Most Accurate Arm** – Accuracy from 0.016 mm.



For more information, visit www.axelsystems.com

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