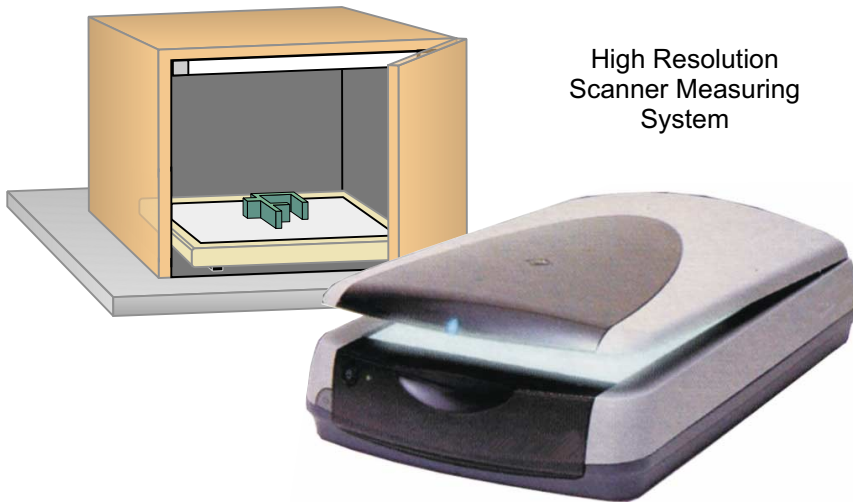


TIC Vision Profiler

Technology In Coordination designs and manufactures measuring units suitable for profile, gaskets, dies and other objects using high resolution scanners, fixed and dual axis dynamic video systems.

The Vision Profiler employs either flat bed scanners or cameras to measure and tolerance all types of cross sections. High resolution scanner systems are used for the measurement of light but possibly large objects. Their high resolution, large measuring field and low cost make it an excellent choice where the measuring plane is flat and has no recesses. Using either lighting from above or the built-in scanner illumination ensures the best image for the particular object. The system is ideally suited for the measurement of profile sections, tubes, pipes, gaskets, stamped parts etc. Camera based systems are used for very small objects or for long sections. The field of view is determined by the lens and thus the resolution can be matched to suit the application. It also enables measurement of recessed dimensions because the live image facilitates easy adjustment of the lighting, focus and acquisition settings.



High Resolution
Scanner Measuring
System

The software is designed for manual point and click measurements using the mouse. An optional automatic inspection module provides convenient tolerancing using preset product related specifications.

All images can be saved while the results are stored and exported in a text file.

A DXF export feature for measurements is under development.

Specifications:

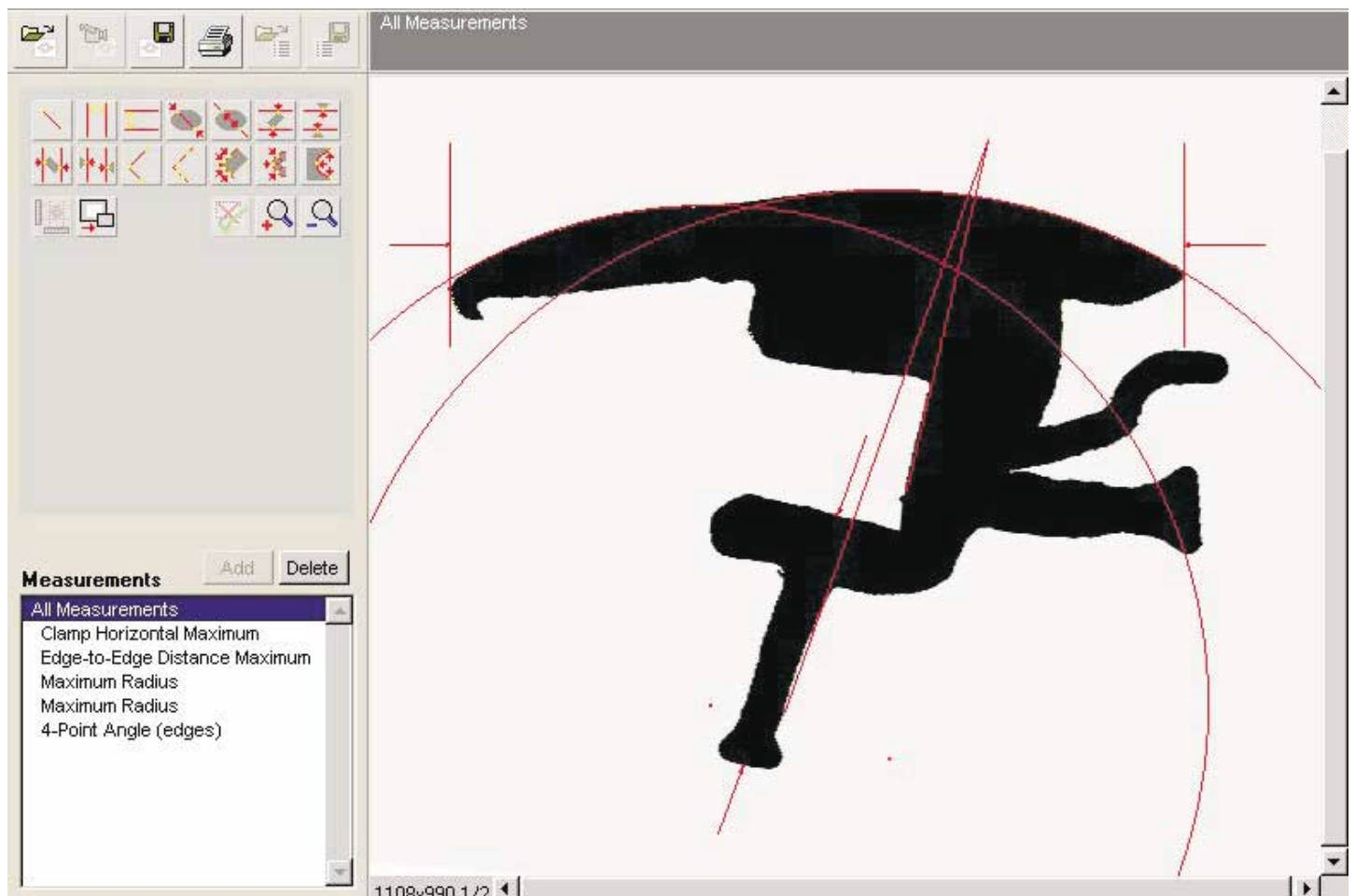
Optical Resolution < 0.01 mm

Measurement Res. (interpolated) < 0.001 mm

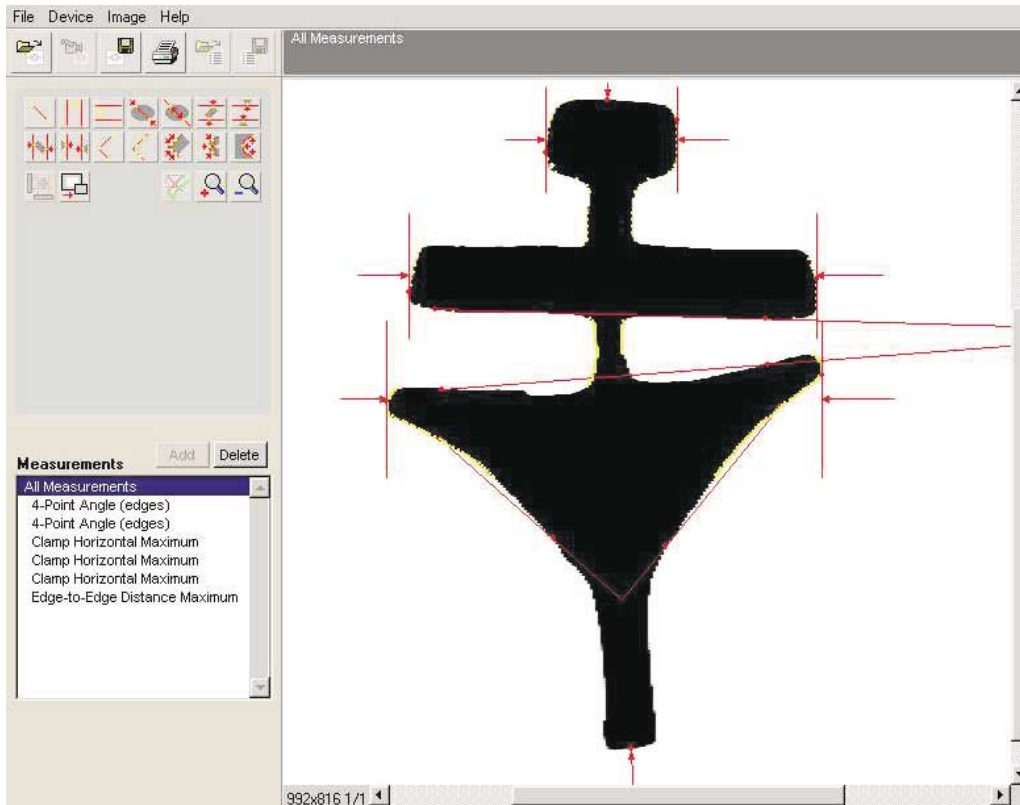
Measurement area 3 x 3 mm to A3

Measurement speed (after scanning) from 0.5 s to 5 s assuming fully-automatic inspection.

(all above subject to system configuration)



Wind screen wiper profile



Manual tools:

- Point to point distance
- 3-Point angle
- 3-point circle / radius
- Vertical clamp
- Horizontal clamp
- Template tool

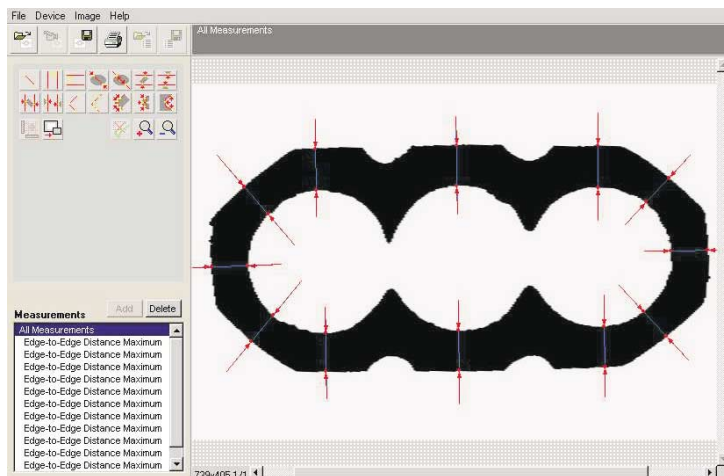
Semi-automatic tools:

- Edge-to-edge distance (ext.)
- Edge-to-edge distance (int.)
- 4-point angle measurement
- Horizontal maximum clamp
- Horizontal minimum clamp
- Vertical maximum clamp
- Vertical minimum clamp
- Radius / diameter external
- Radius / diameter internal
- Min / Max wallthickness

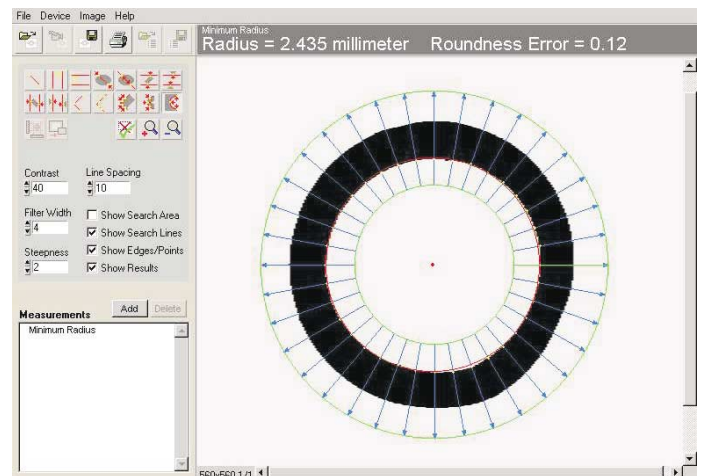
Fully automatic tools:

Many tools can be designed for very specific purposes. All of the semi-automatic tools can be used to automate the process of measurement after the sequence has been taught and stored (optional). Tolerancing will also be done automatically and the operator alerted of the results.

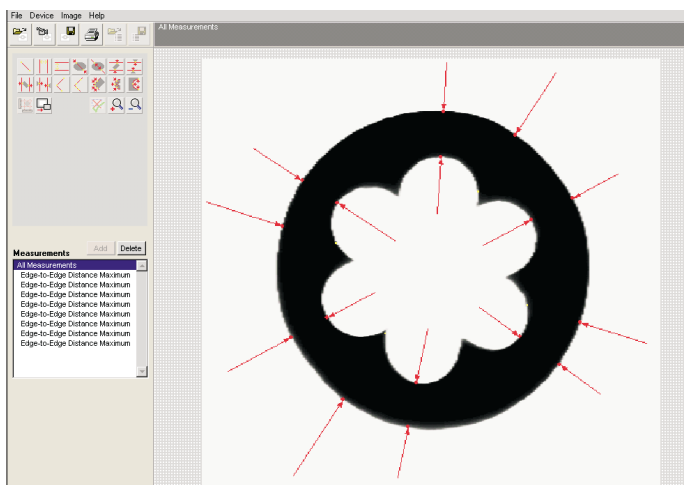
Sheath of 3-core building wire



Tubes and pipes



Circular multi-core cable



Special tools can be designed for any industry



Find min/max OD & also calculate ovality



Find min/max Wallthickness "between peaks". Display eccentricity.



Find min/max for OD, ID & Wallthickness. Calculate also ovality & eccentricity



Calculate cross section area of tubing or insulation

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