

# MULTIVISION

## NEW 3-CAMERA OPTICAL MEASUREMENT SYSTEM

### „Ultimate geometry“

The Multivision optical measurement system has the same functionality as a traditional profile projector, with the added advantage that it instantly provides all measures in one go.

Multivision can be installed onto machines or used on benches in lieu of a profile projector.

For instance, when used on spring formers, where spring types vary considerably, Multivision will dramatically improve the quality of production.

Multivision is ideal for **three-dimensional** measurements for:

*Compression, torsion, and tensile springs as well as several templates*

The instrument consists of:

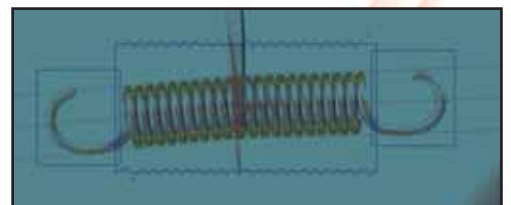
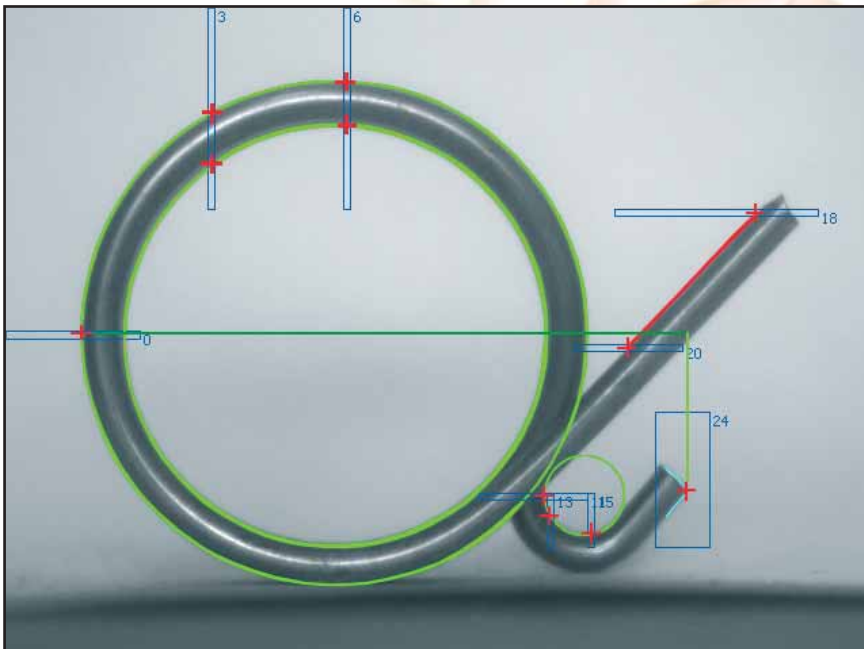
one computer box capable of controlling 1 to 3 cameras

- 1 to 3 cameras
- 1 to 3 illuminators (front or rear mounted for profile reading) harness for individual camera Start, sorter operation, correction communication (where possible), and machine stop.

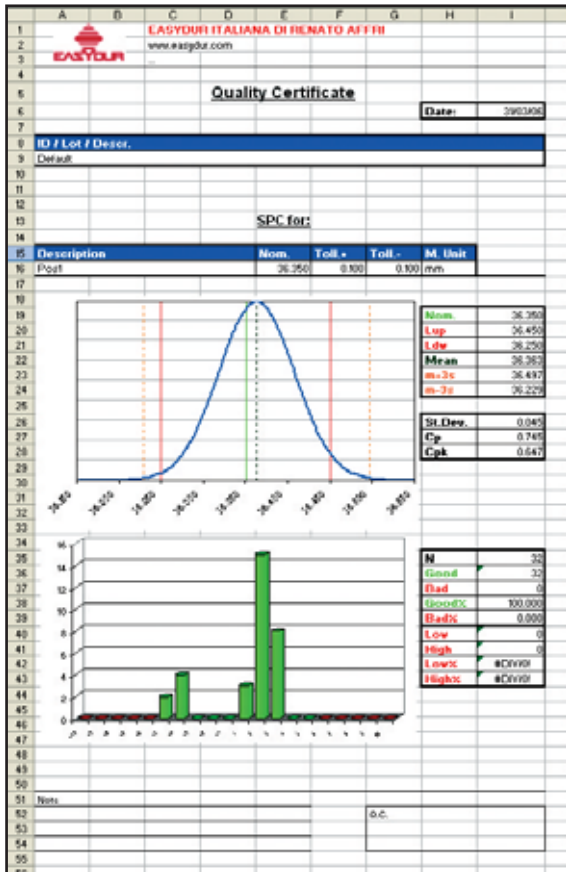
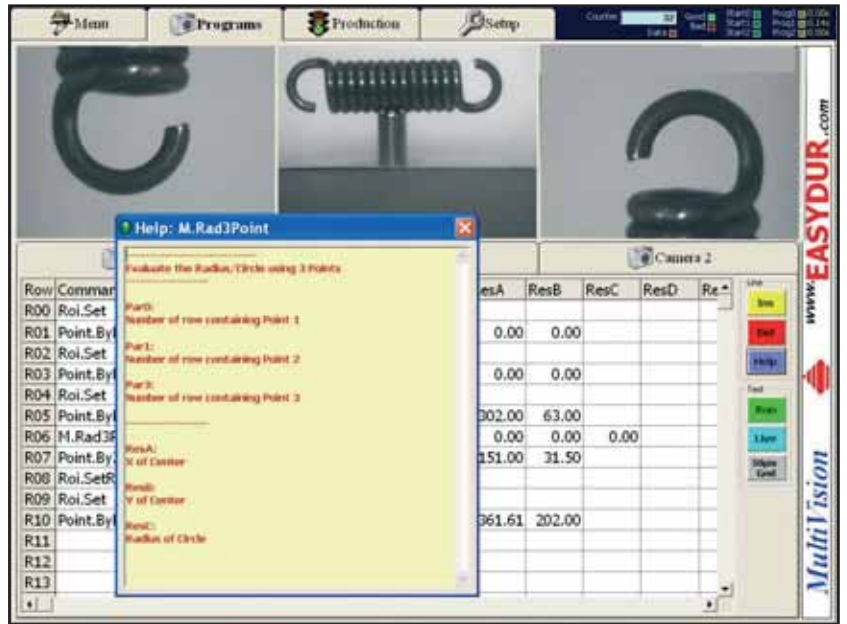
Since it is not based on a set drawing, the system is extremely open and fully programmable and will automatically reset itself and measure any shape that is brought into focus by the cameras.

The programme relies on a database full of geometrical instructions for the search of points, lines, rounds, etc., making it possible for instance to evaluate distances, angles, bend radiuses, etc.

The computer box includes a convenient touch screen, and the programme is extremely user friendly, with online help making individual commands even easier to use.



Files are included for storing programmes and test results, and all measurements are recorded. Statistics are provided in Excel, and are fully customisable. Average, Sigma, Cp, Cpk, Gaussian curve, bar graph, and other calculations are obtainable for each measurement, making it possible to analyse the output capacity and critical features of the machine connected to the instrument.



The image scan functionality has been developed by Easydur and reaches a resolution of 0.1 pixel. Search for orthogonal and radial outlines is implemented. Typical instrument resolution is 0.01 mm for a 60/70 mm field of view, and 0.001 mm for small fields of view (6 mm). Digital cameras on FireWire bus. CCD sensor. The extremely low shooting speed makes it possible to measure moving or vibrating targets. Camera resolution ranges from 640x480 to 1280x960. Various types and shapes of illuminators are offered in combination with the instrument as well as a set of lenses for the requested measurement fields.



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