

Get More Out of Gauging
Production Decision Intelligence
 Save Costs – Maximize Quality

**On-line. Detailed. Exact.
 Production Quality
 Data Base**

ISRA
 VISION

Avoid Mistakes

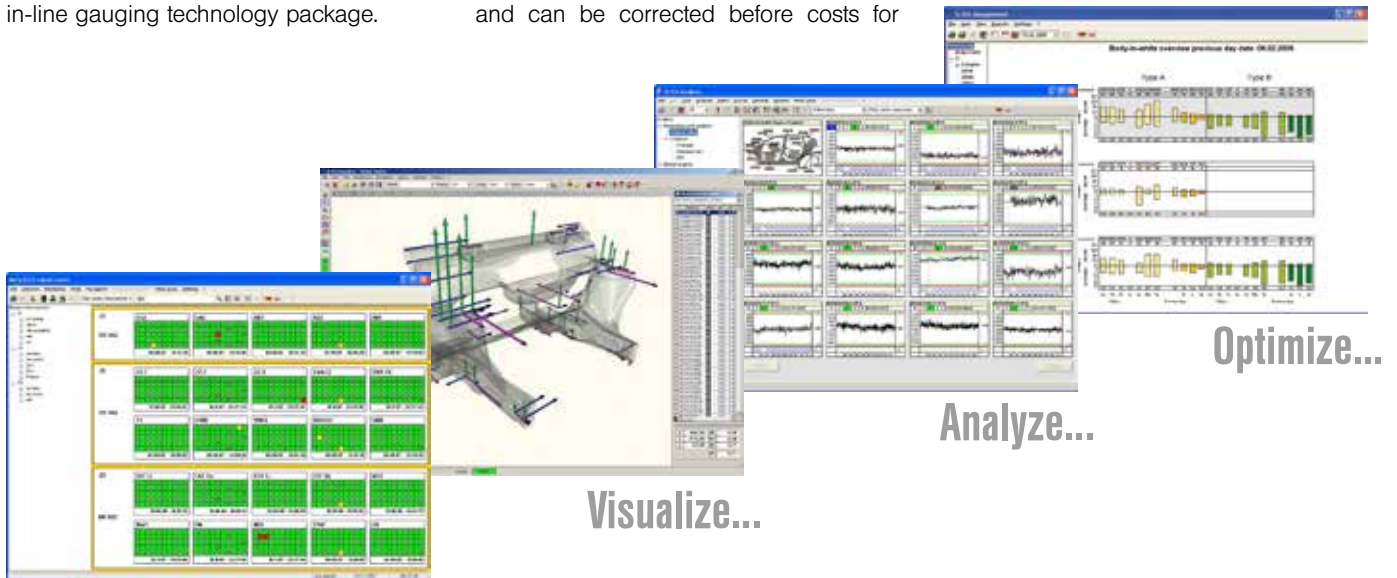
by a better understanding of the process

...and by the recognition of deviations

Our intelligent, comprehensive software Q-VIS offers you uninterrupted quality management of your process and measurement data, either as a separate software solution or in combination with the in-line gauging technology package.

Complete on-line, in-line monitoring, visualizing, analyzing and optimizing – of local measurement cells, for all production lines and each vehicle per plant with local and global access – it aids in recognizing deviations and variations. Production line problems are recognized immediately and can be corrected before costs for

defects and waste are incurred. Detailed evaluations and statistics assist you during the analysis of process capability and process optimization.



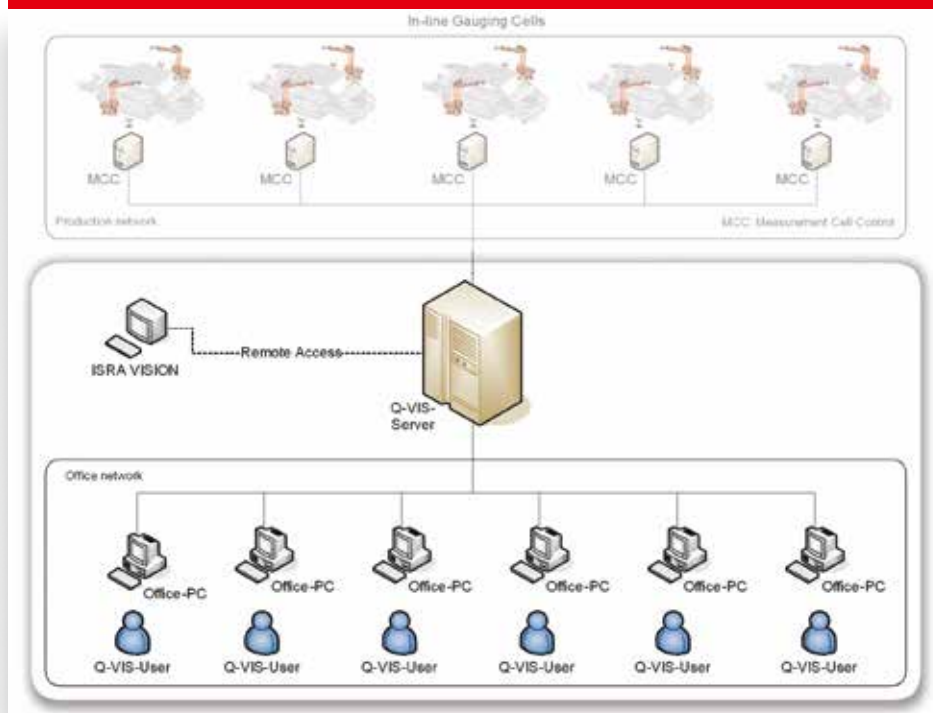
Measure...

Visualize...

Analyze...

Optimize...

- Independent of sensors and robots
- Data Base on a central server for all in-line gauging cells
- Client programs can be run on a PC
- Access for numerous users



Measure - Visualize - Analyze - Optimize

In-line. On-line. Global.

The right mix for the best quality

Best quality, widest flexibility and low costs have long been the request of automotive manufacturers. Interlocking new and complex process chains with each other is valuable for producing top-class vehi-

cles. As a supplier to the automotive industry, ISRA VISION focuses on highly efficient systems that provide the manufacturer with a long-term competitive advantage. An intelligent tool box made of in-line measurement technology and in-process analysis software is available for measurement tasks on the body in

white. It enables a complete quality inspection and evaluation locally, per measurement cell as well as for the whole car body – detailed, exact and accessible everywhere.

Quality auto body manufacturing at a glance!

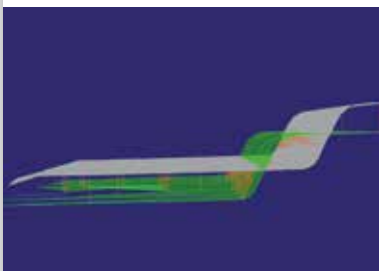
Geometry Gauging Sensor
For efficient 2D/3D measurement



Robotic Temperature Compensation
For highest stability



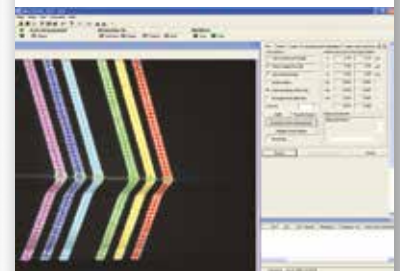
3D Area Matching
For highest precision



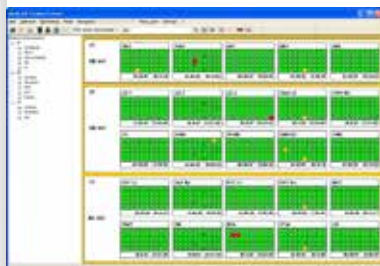
Quality

Measure...
Visualize...
Analyze...
Optimize...

Multiple-line Projection
For highest reliability



Production Quality Data Base
The whole process line on-line at a glance



On-line display for every gauging point



Process Monitoring
Interface with all robots and sensors



Reduce Your Costs

by regulating the quality of your production

Data base oriented client-/server-analysis and evaluation system

Numerous users have access to the most recent measurement data

An on-line representation of the current quality conditions of all stations at a glance

An overview provides a better evaluation

Immediate access to current problem measurement items, statistics, control cards

Simple and quick evaluation of the quality conditions of all systems

Optimized for the processing of in-line gauging results

Processes one million items per day without any problem

Aggregated information by calculation of key figures and long-term analysis

Facilitation of total evaluation for shortening the quality control cycle

Quick and simple evaluations

System maintenance and optimization in view of total facility care

Comprehensive facility control system analysis

Enhanced understanding of the process by recognizing deviations

Automated comparison with off-line measurements

Quick, intelligent correlation analysis feasible

Creation of aggregated reports as management information

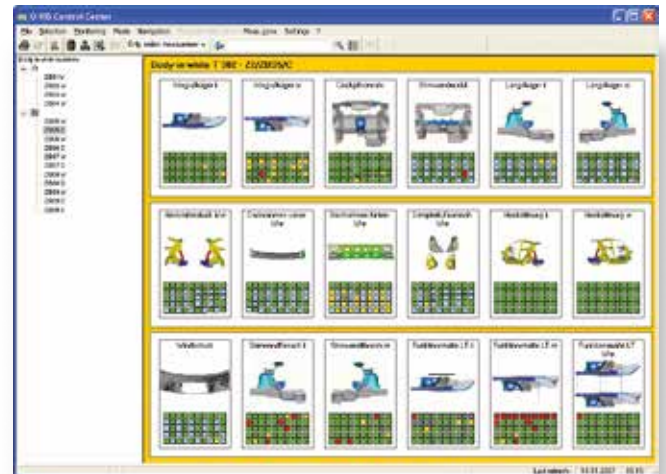
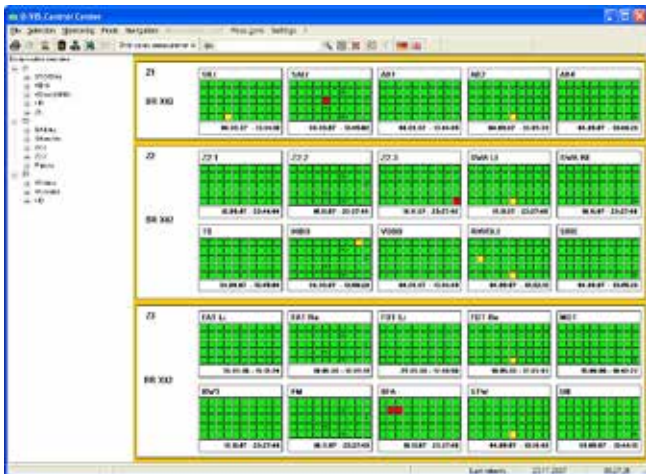
Fast creation of high quality documents for management decision-making

Evaluations for inspection process suitability in accordance with VDA 5

Complies with German standards

3D visualization in vector or CAD view and animation

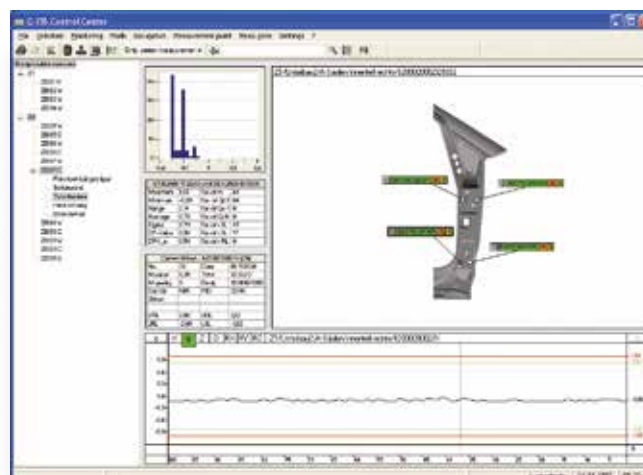
Everything in the simplest, one-glance presentation



On-line presentation of every single car body for all gauging cells

Immediate access for all problem parts with two clicks of the mouse

View every gauging cell from an office PC



On-line presentation of all gauging zones of a cell

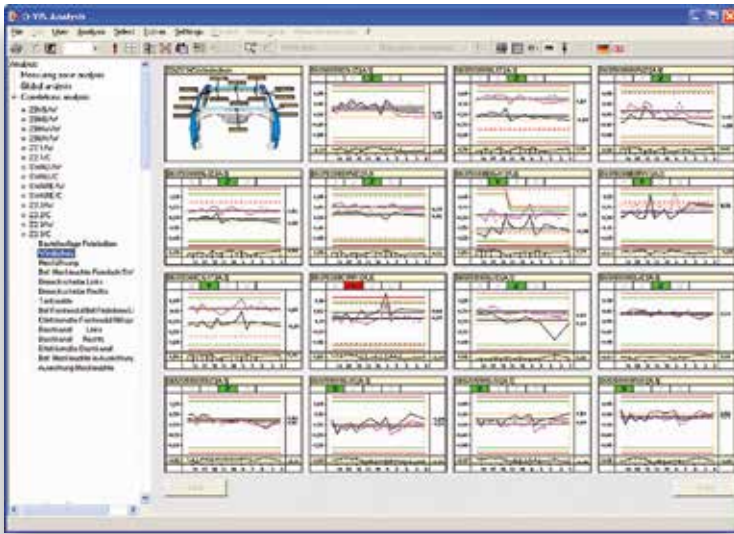
Indication of the measurement status for simple navigation to the problem items

On-line presentation of all gauging items within a measurement zone

Control chart with limit values and trend analysis for shortening of the quality control cycle

Live Overview of Car Body Quality

The right way to quality auto body manufacturing



Evaluations and analysis for optimizing the process

Gauging zone analysis:

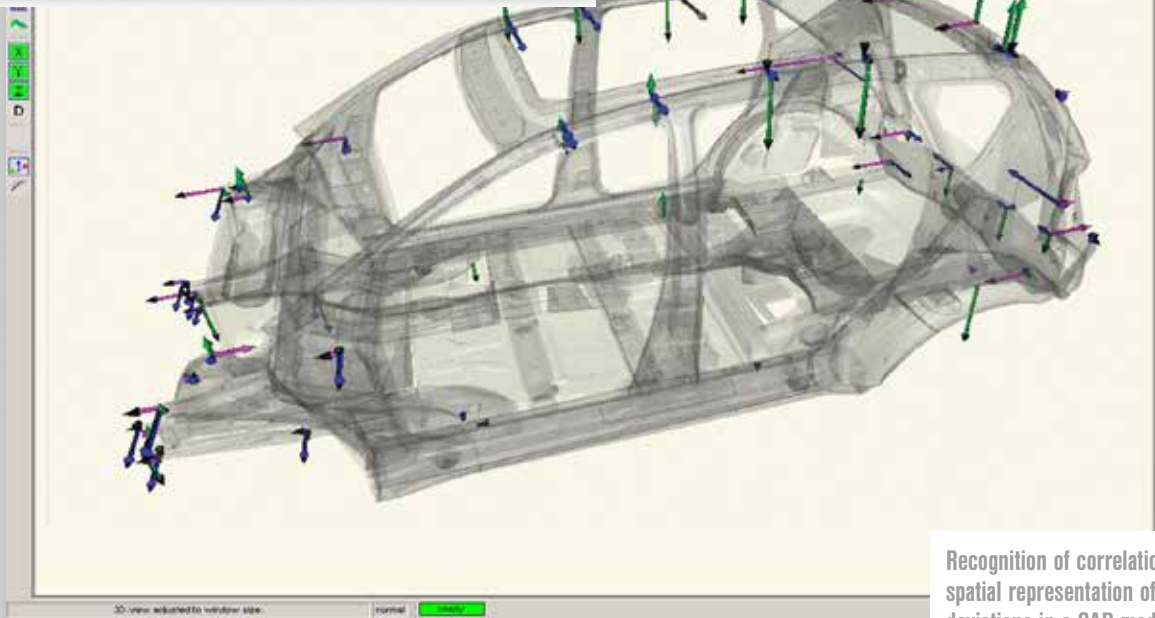
Measurement items per zone are prepared transparently and arranged on a control chart

Global analysis:

Visualizing the time ratio of different measurement cells per control chart

Correlation analysis:

Automated comparison possibility of in-line/off-line measurements



Recognition of correlations by a spatial representation of all gauging deviations in a CAD model

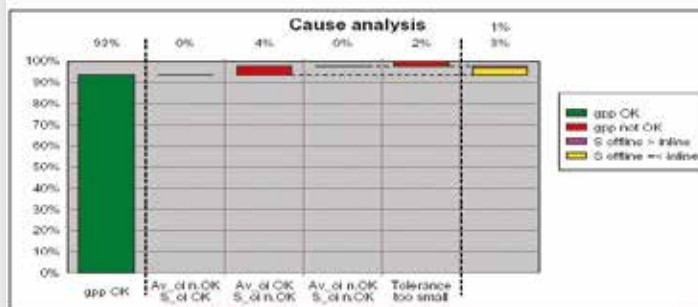
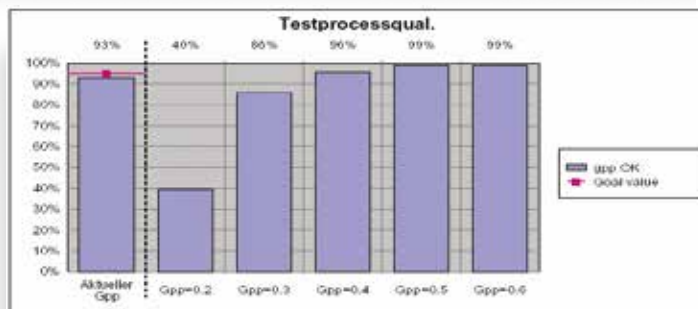
Reports and statistics

Automatically generated quality to control production per gauging zone, shift or day with optional alarm notice via text messaging

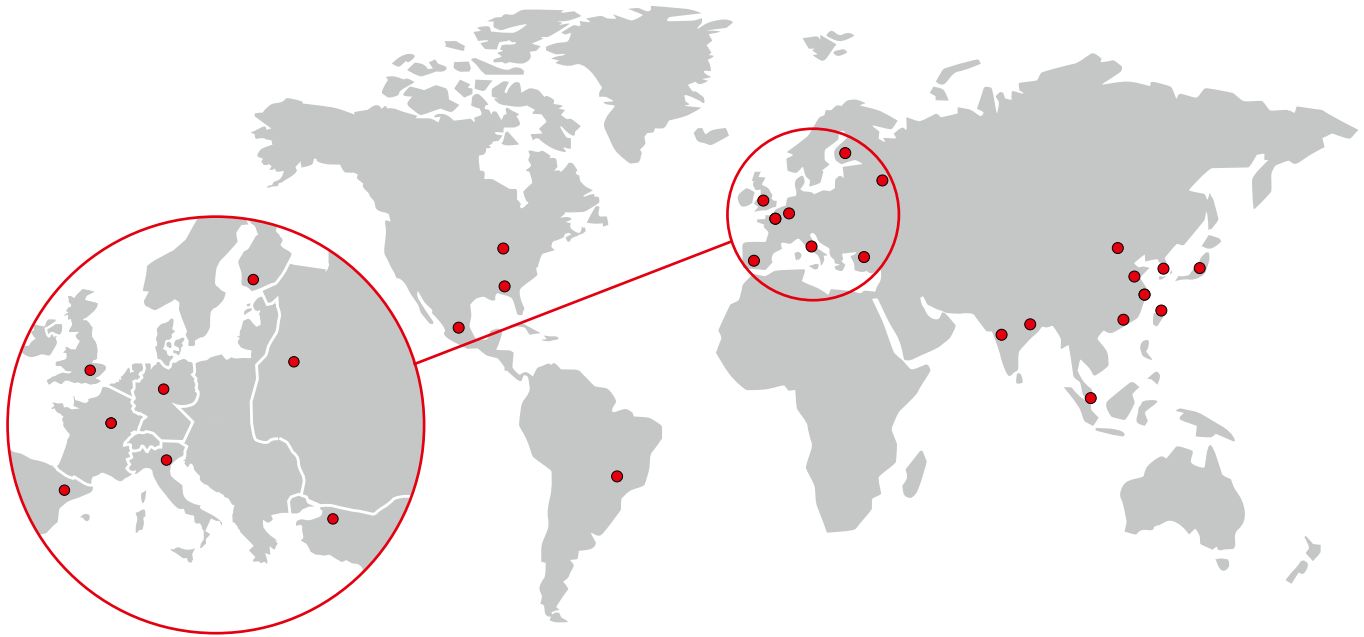
Cpk-index

Ratio comparison

for the evaluation of quality and process capability



Innovation for Robot Automation



Automation at its best

ISRA VISION has been a leading supplier of high-performance quality inspection, robot guidance and production logistics systems for more than 30 years.

Our systems are used around the world in many different industries and applications. Our mission is to offer a comprehensive portfolio of standard solutions, covering all requirements along the process chain.

ISRA's experience and technological competence in the field of industrial image processing has been proven by thousands of successfully installed systems worldwide.

Benefits at a glance

Customers opt for ISRA's solutions for the following reasons:

- Our development activities are consistently aligned with our customers' requirements.
- We are continuously expanding our knowledge and expertise in all core areas of industrial image processing.
- Our customer relationships do not end with the delivery of new products. The Customer Support and Service Center provides comprehensive support for the use of your systems and helps you to increase your productivity – be it via our telephone hotline, remote service, on-site service, or our maintenance services.
- More than 900 employees at our sites in Europe, North and South America, and Asia are committed to your success.

ISRA VISION

Germany
Tel.: +49 (6151) 948 0

Belgium
Tel.: +49 (2366) 930 00

Spain
Tel.: +34 (93) 839 70 32

France
Tel.: +33 (0) 155 681 250

Italy
Tel.: +39 (0464) 490 603

UK
Tel.: +44 (1442) 261 202

USA
Tel.: +1 (800) 753 4413

Brazil
Tel.: +55 (11) 347 611 32

Turkey
Tel.: +90 (212) 285 97 45

Russia
Tel.: +7 (921) 055 63 30

P.R. China
Tel.: +86 (21) 685 002 88

Japan
Tel.: +81 (45) 534 99 11

Korea
Tel.: +82 (31) 806 973 00

Taiwan (R.O.C.)
Tel.: +886 (3) 250 01 48

India
Tel.: +91 98 23 16 24 55

Optimize your ROI with the technology leader **ISRA**
info@isravision.com www.isravision.com