



The focus of our business is placed on the development of innovative machinery and equipment for efficient measuring, testing and sorting as well as for integrated quality control.



Sorting Machine
CORAVEL

Our Business Activities

Business Areas

- Engineering
- Mechatronics
- Computer Technology
- Software Development

Counselling

- Rationalization of Production
- Quality Control
- Development of Electromechanical Devices

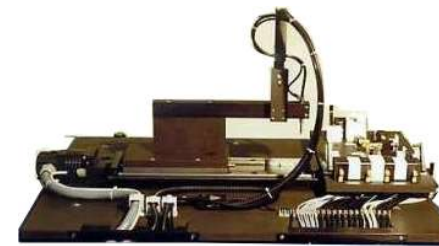


Challenges, we already solved...

- Fully automated sorting and selection of hazelnuts and other oilseeds
- Inspection of waffles in the production process using camera systems
- Performance test of precision mechanics and electronic components
- Development of sensors and measuring methods based on infrared light and ultrasound
- Development of high power computers based on digital signal processors (DSP und FPGA) for special applications
- Integrated solutions for measurement-, testing- and computer technology
- Optical inspection of Flow Pack packaging on a conveyor belt



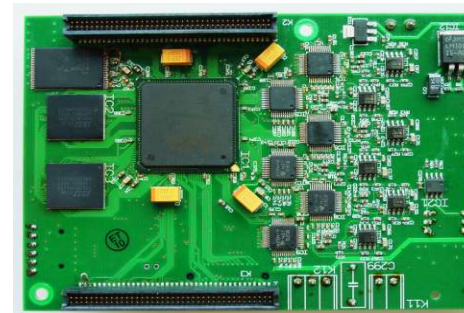
Test Station for
ABS-Sensors



Vibration-Tester
with Laser-Interferometer

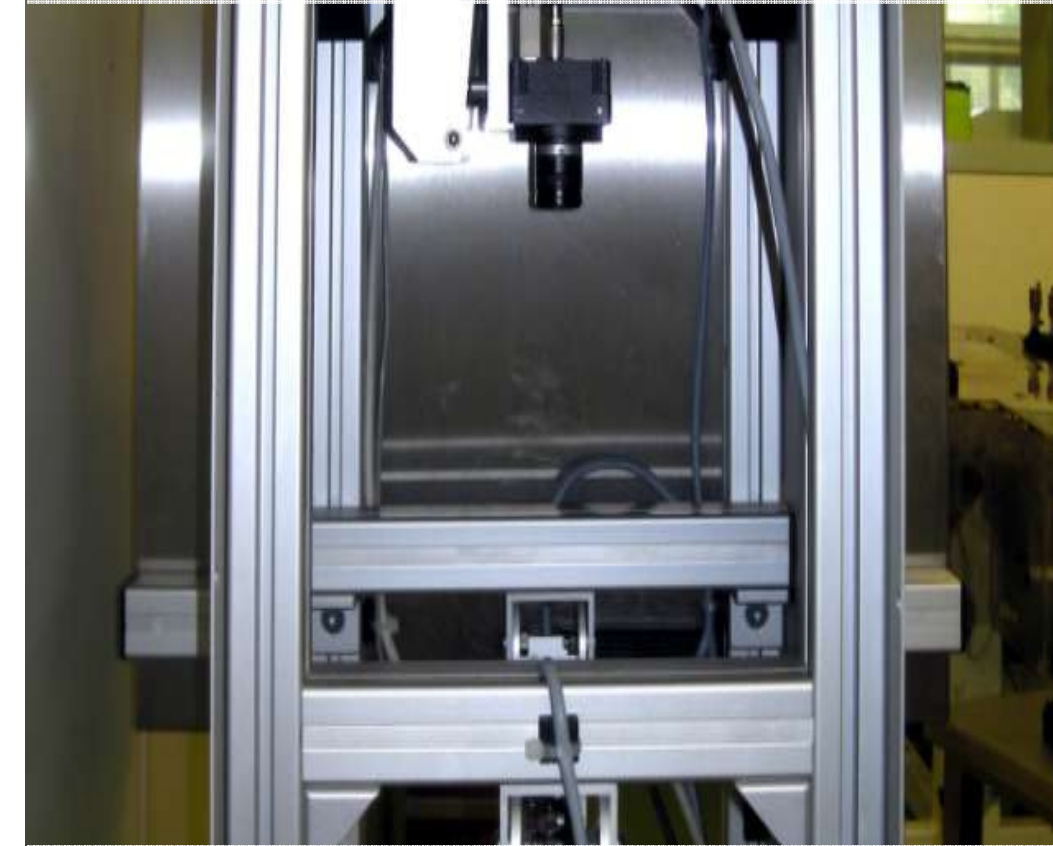


Tester for 2-Pole
Elektronic Components



Special Computer for
Ultrasound Analysis

HELMS-INSPEKTOR Product- and Packaging Inspection



Quality Control via Camera Inspection for Packed and Unpacked Products



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Our Service

- Product Change
- Remote Maintenance
- Remote Diagnostics
- Service on Site

Direct Control of the Machine



Remote Support



Company Network



Operation via Web Interface

Innovation for Integrated Quality Control



About the HELMS-INSPEKTOR

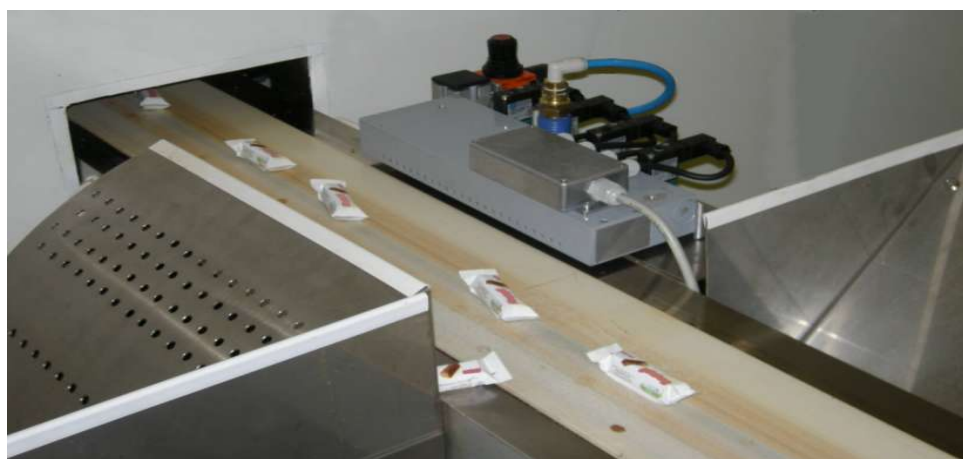
The HELMS-INSPEKTOR has already gained considerable reputation for its efficiency and functionality at respective companies of the food industry.

Applications for the Quality Control of:

- Packaging
- Labels and Barcodes
- Unpacked Products
- Raw Materials

Strengths of the HELMS-INSPEKTOR

- High Speed
- Easy Operation
- Easy Product Change
- Easy Integration in Existing IT Infrastructure
- Remote Diagnostics and Maintenance
- Automatic Operating Documentation



Packaging Inspection

- For all Types of Packaging, including Bottles and Tins
- Makes a Completeness Check
- Recognizes Welding Errors
- Identifies Cracks and Impurities
- Finds Open and Empty Packaging

What It Can Do

- Optical Inspection of Products Transported on a Conveyor Belt
- Picture Recording with High Definition Line and Area Cameras
- Control of the Form, Color and Size of the Products
- Image Evaluation per Digital Signal Processors (DSP)
- Removes Defect Products via Different Methods, e.g. Compressed Air



Inspection of Labels and Bar Codes

- Recognizes Displaced Print
- Checks the Print Quality
- Checks the Use-By-Date, Batch number and Serial number
- Recognizes and Reads Labels, Barcodes and 2D Codes



Cameras and Lighting

The number, resolution and types of area or line sensor cameras employed are adapted to the respective task on hand.

Photo Assessment

The evaluation software, which we developed ourselves, is ideally suited for adaptation to the given task on hand.



Inspection of Unpacked Products and Raw Materials

- Measures the Size
- Detects Colour and Form Deviations
- Recognizes Foreign Bodies
- Identifies Fragments
- Identifies Cracks...



Assembly

- Switch Box
 - Evaluation Electronics
 - Control Elements
- Take-Up Unit
 - Cameras
 - Lighting Modules
- Ejection Unit
 - High-Pressure Air Jets
 - Foldable Belts
 - Actuators