www.coditech.it

Genius and Passion

CODiTECH is a company that specializes in designing and manufacturing "ad hoc" systems for **product coding**, **identification** and **traceability**.
Our work is aimed at Companies with specific needs in the **field of automation**, whether they are taking their first steps or they need to redesign and improve their current **production processes**.

Total control over production processes today represents a winning strategy with which to reinforce the "brand image" and reinforce the **relationship of trust** that binds a company to its customers over time. Our **"Turnkey"** formula assists the customer through each phase: **Design, Manufacturing, Installation, Support**.

CERTIFICAZIONE DI SISTEMA QUALITÀ
DNV·GL
ISO 9001

CODiTECH Designs and Manufactures 'ad hoc' systems for Product Coding, Identification and Traceability

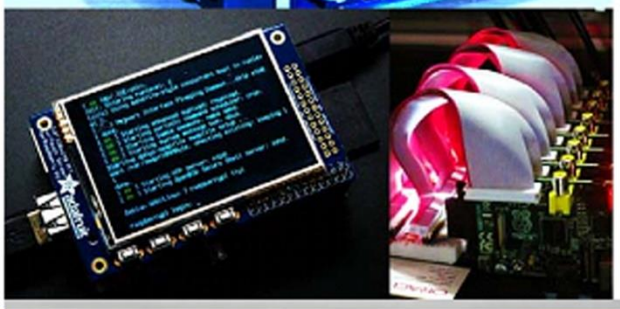
A company with a Quality Management System Certified by DNV - ISO 9001

RESEARCH AND DEVELOPMENT

Each of our solutions is born thanks to the commitment of a team of experts made up of engineers, technicians and designers.

A fundamental aspect of our daily work is the contribution of the **Research and Development** department that, every day, is committed to conceiving new solutions to address the continual and growing demand for **Technological Innovation**. The Research and Development Team is responsible for building prototypes and subjecting them to severe **quality control** and in-depth **stress testing**.





DESiGN AND MANUFACTURiNG

CODiTECH systems are made with **highly sophisticated technologies**, aimed at optimising business management and giving your company a competitive edge in the market.
CODiTECH develops new projects in **close collaboration** with its **customers**, following a **Step-by-Step** philosophy that accompanies the customer through each phase and ensures the most suitable custom configuration.




AUTOMATiON & ROBOTiCS

CODiTECH's automatic stations, customized to meet the specific needs of the customer, are designed and engineered to perform Quality Checks, Analysis, Measurement, Identification, and Product Marking.

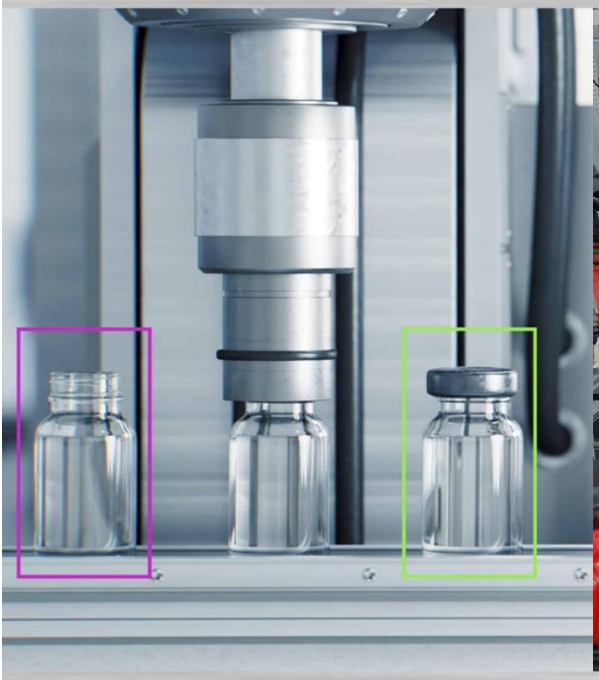
Our robotized stations represent a winning strategy for optimizing performance in production processes, reducing time and management costs.

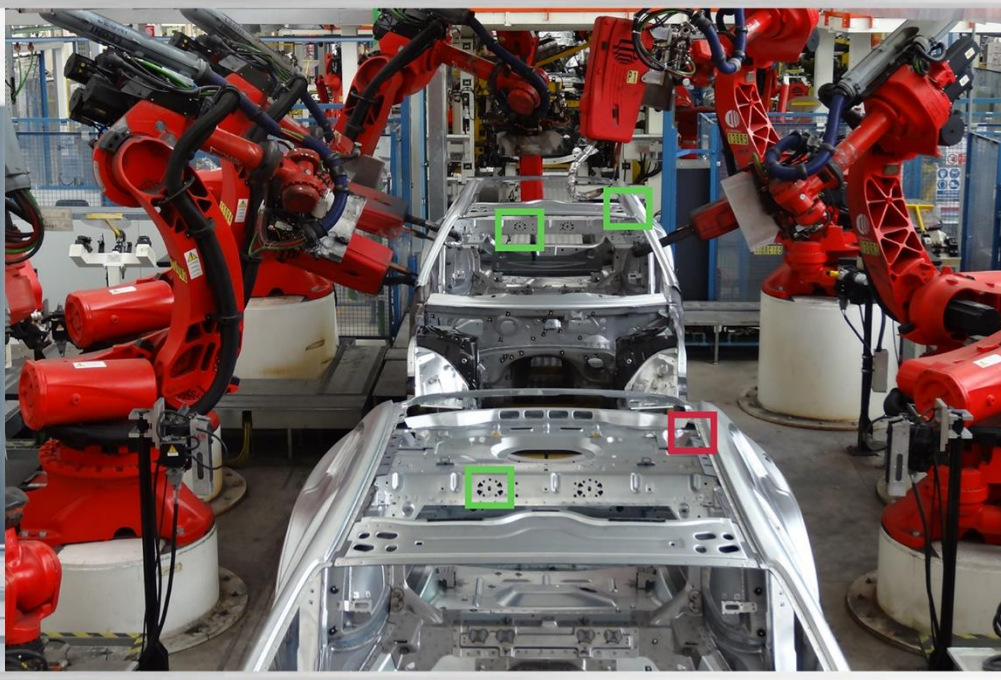
To ensure repeatability, reachability, flexibility, and speed in pick & place operations, we use the latest generation of **Robots** and **Cobots**.

ARTiFiCIAL iNTELLiGENCE

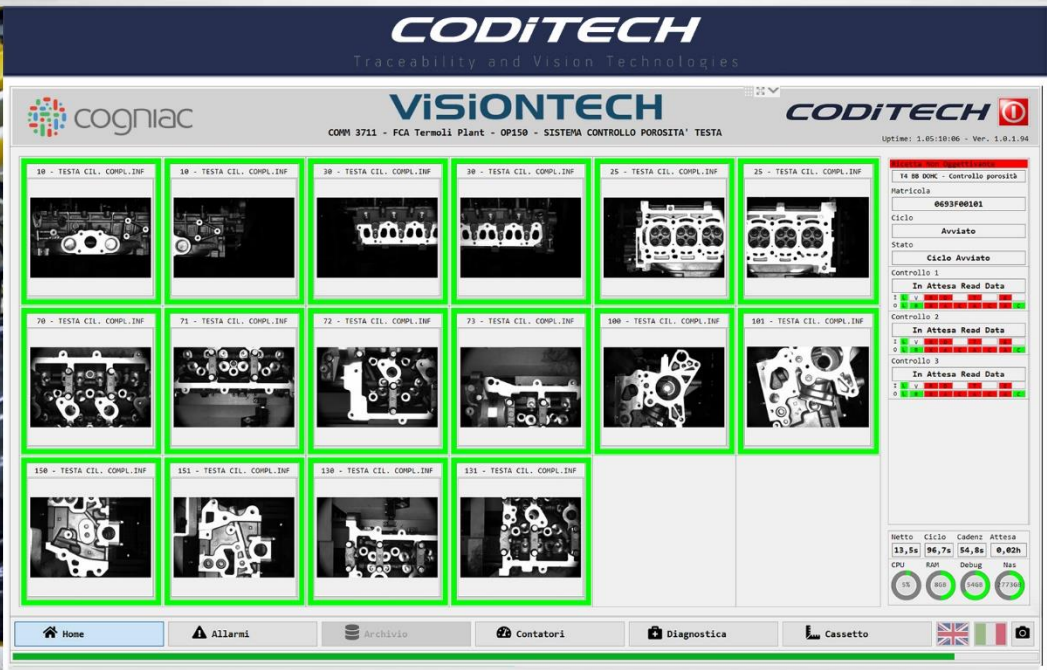
With **Artificial Intelligence**, the world of automation takes another step forward in the innovation field.

Today, systems equipped with the right hardware and software are able to perform activities that were previously unimaginable.





CODiTECH Vision Systems benefit from **Cogniac AI technology** and are able to automatically detect non-conforming elements, constantly improving analysis over time.



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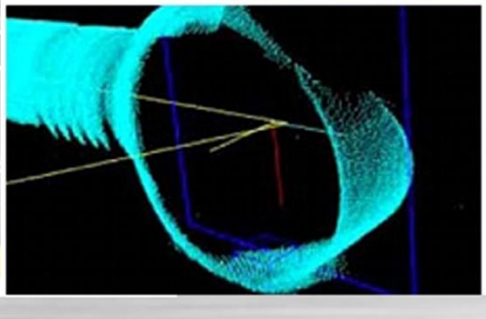
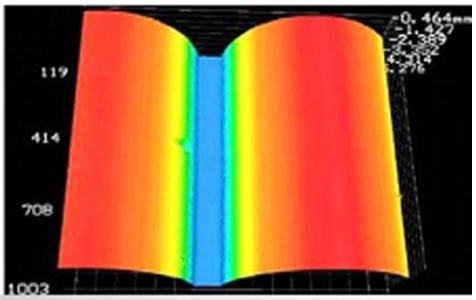
3D ViSiON SYSTEMS

3D image acquisition for production quality control effectively reproduces the visual inspection normally carried out by an operator, with the advantage of an **accuracy** that only a digital system can guarantee.

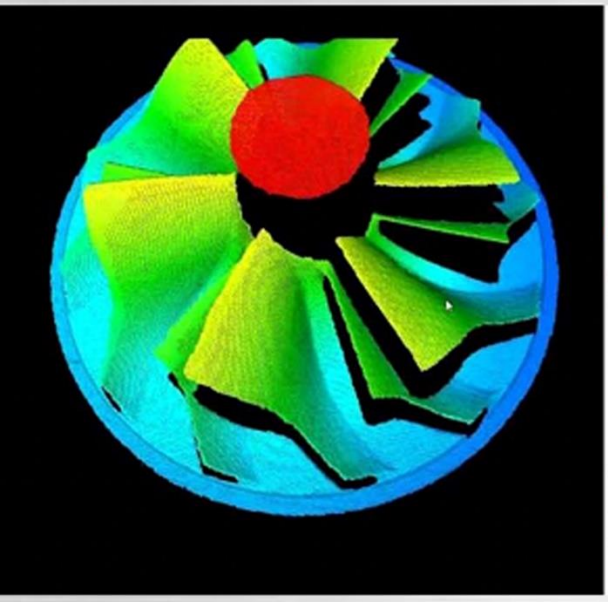
The simple image has evolved though three-dimensional processing, which not only acquires the geometry of the object under examination, but also all the minute variations such as holes, pitting, structural imperfections and much more.

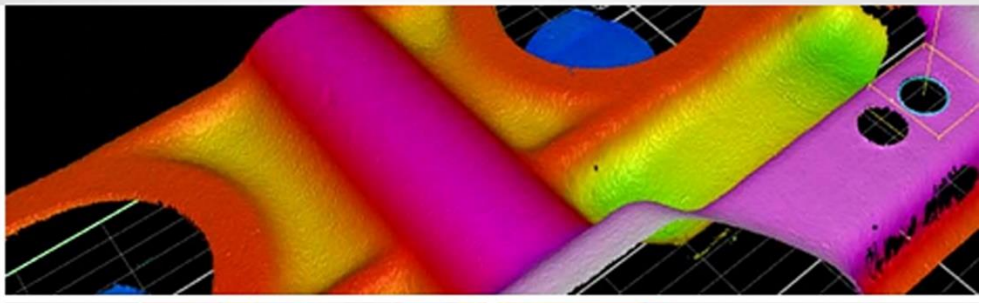


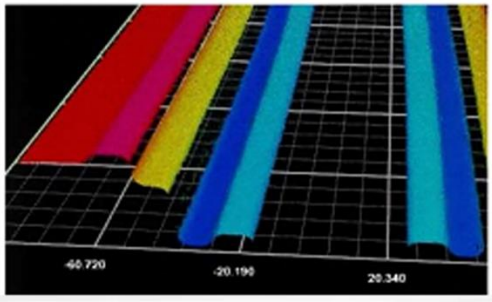


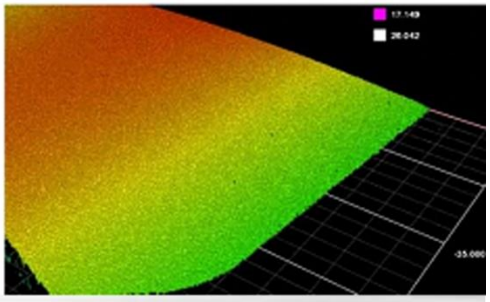
Some of our additions:

- Inspection to check **Geometric Conformity of Vehicle Windscreen/Rear Window** (Automotive sector)
- Inspection of **Engine Block Drain Hole** (Automotive Sector)
- Integrity check of **Water Pump Silicone Coating** (Engineering sector)
- Check of **Pipe Welding Seam** (Engineering Sector)







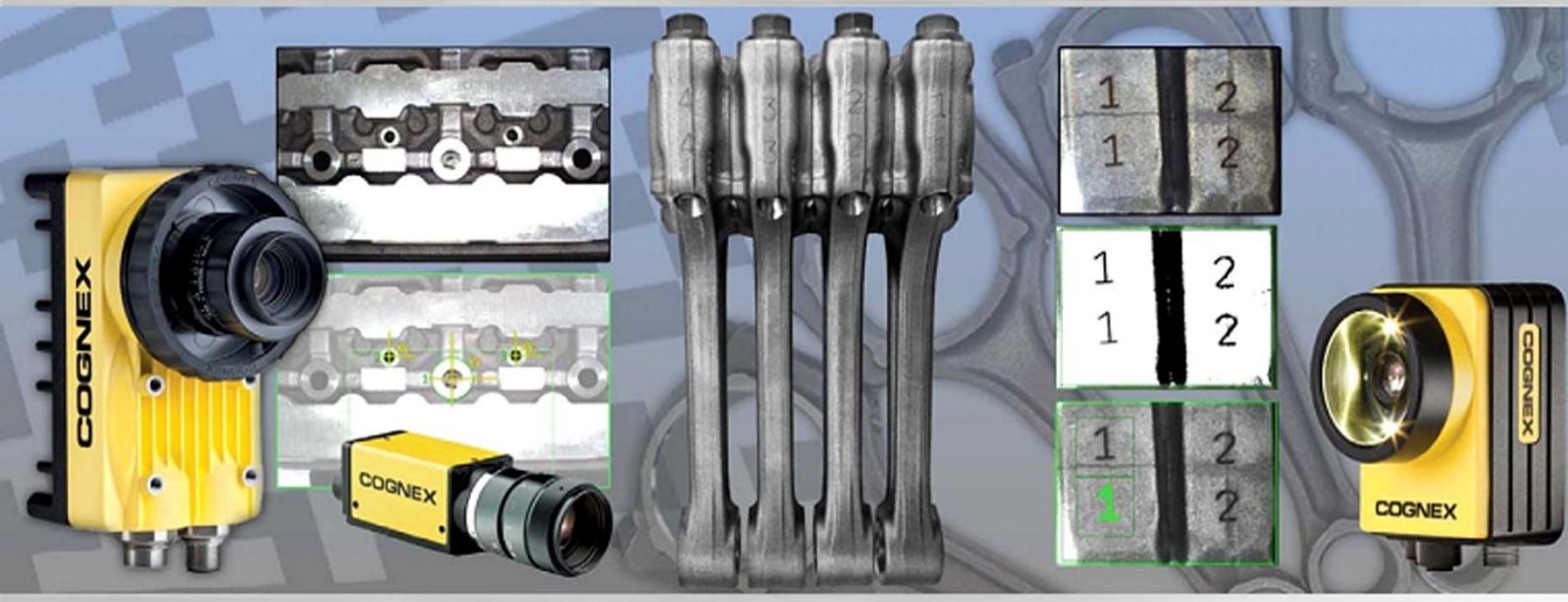


2D ViSiON SYSTEMS

The **vision** and **inspection** systems autonomously acquire data and analyse product quality in order to optimise production times.

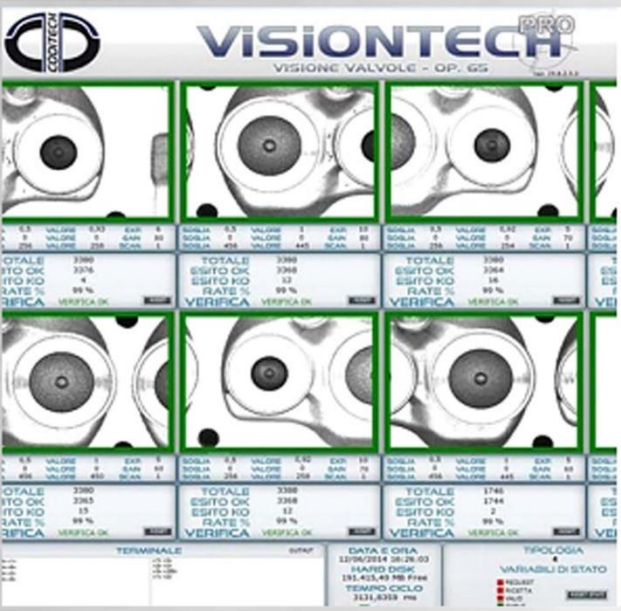
The latest generation of devices guarantee high performance, thanks to:

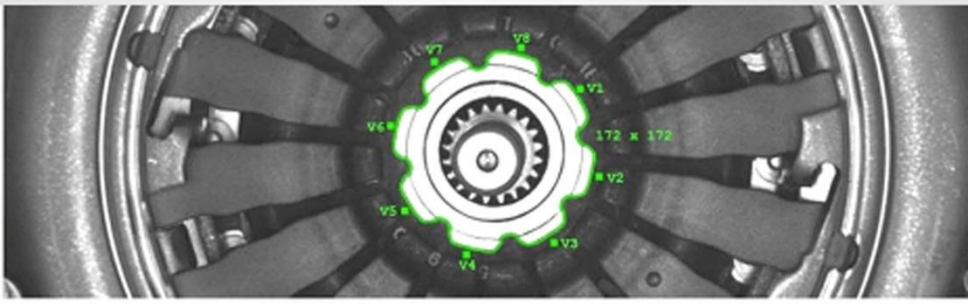
- **High resolution** CCD and CMOS sensors
- 'Ad hoc' lenses and filters to optimise the images to be analysed
- Software processing for **real time** verification

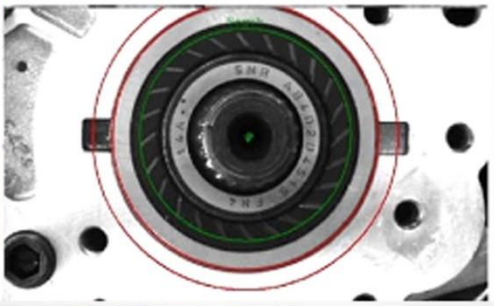


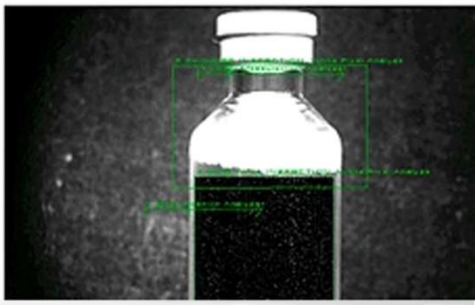
Some of our additions:

- Morphological inspection of **Tablet Blister Packs** (Pharmaceutical Sector)
- Inspection of **Engine Block Silicone Bead** (Automotive Sector)
- **Robot Guide** inspection to detect pick-up coordinates of **Cylinder Heads** (Automotive Sector)
- Chromatic Inspection and correct tightening check on **PVC Connectors** (Electrical/Electronic Sector)









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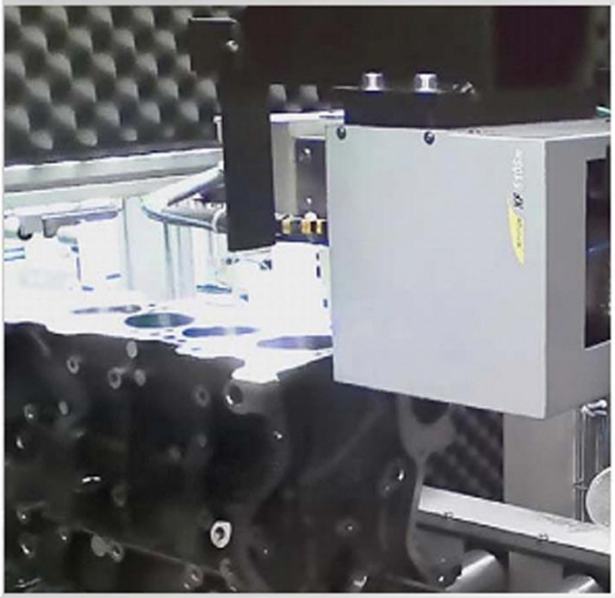
LASER MARKiNG

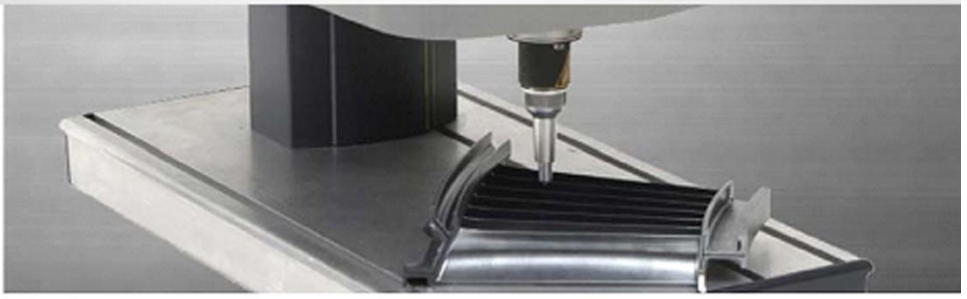
Devices with **Laser** technology use a marking process that permanently alters the surfaces of materials, thanks to the localised release of energy.

This technology offers many **benefits** compared to other traditional techniques: greater **versatility**, **incorruptibility**, **high definition**, **absence of contact**, **high speed** and cycle **repeatability**, **operating cost restraint**.

DOT PEEN AND SCRiBE MARKiNG

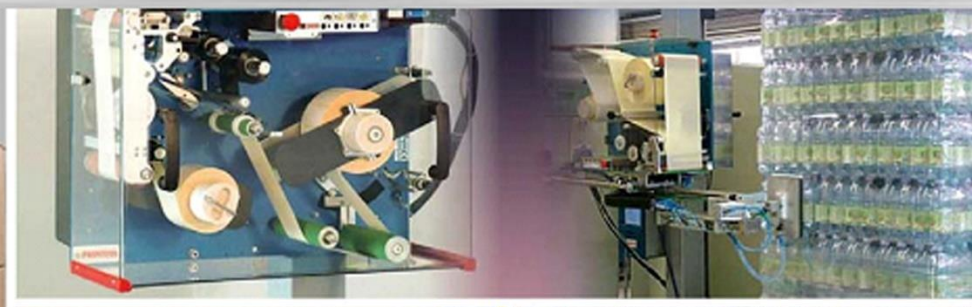
Pneumatic and electromagnetic **Dot Peen and Scribe** marking, is a contact engraving method that ensures legibility of codes, characters and logos even after **any surface treatments**.
These devices can engrave information that changes automatically for each marking operation, such as **text, date, time, lot number, serial number and DataMatrix Code.**





PRiNT APPLY SYSTEMS

The **Print-Apply** printers are automatic labelling systems **(Print and Apply).** Powerful internal microprocessors can rework **variable data** in real time, without penalizing the production rate. The **Label is applied directly** to the product or pallet, using a high-efficiency pneumatic system. These systems can also print in stand-alone mode, with the support of a common portable USB memory.



TABLETOP LABELLiNG MACHiNES

Available in various models, from 2 to 8 inches, our printers are designed for the highest standards in terms of **ease of use** and flexibility. **The tabletop printers offer small size, robustness and quiet running;** They support 1D and the most common 2D symbol types, including **DataMatrix and QR Codes**. High performance processors offer rapid processing and printing times.

iNKJET MARKiNG

Inkjet Marking devices are suitable for non-contact printing of texts, barcodes, DataMatrix, graphics and variable data on moving objects, even using several colours. These marking devices are suitable for integration into high-speed production lines to guarantee: **high marking reliability** and **quality**, efficiency, communication with devices such as PLCs and computers for product traceability with variable data.

THERMAL TRANSFER

Direct Thermal Transfer Devices can print on film, card, **plastic, paper, cardboard, wood, leather, rubber and painted metal.** Its **innovative method** can also **print on rigid objects, porous material and irregular surfaces in production and on packaging lines.**

SOFTWARE DEVELOPMENT

In many applications, the use of printing and inspection devices alone is not enough. Often it is necessary to develop and integrate **ad hoc software** for complete product Traceability and Tracking.

CODiTECH designs, develops and integrates Application Software that is built around the customer's specific needs.

DiGITAL MEASURiNG

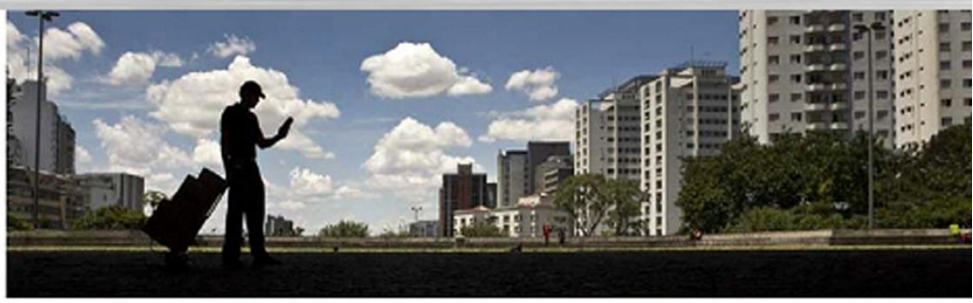
In precision industrial manufacturing, it is necessary to carry out **measurements in short times** that are optimized for greater production efficiency. The best solution in that case requires the support of Digital Micrometers capable of making rapid and accurate measurements, using complex laser and optical components.

- High **speed**, thanks to thousands of samplings per second
- Greater **stability** and **durability** over time, thanks to the use of LED and HL-CCD systems
- High measurement **accuracy**

MOBILE COMPUTING

Mobile Devices have undergone a significant technological evolution, towards component miniaturization and performance increases. The way of communicating has therefore become increasingly "mobile":

- GPS connections, for Geolocation and Traceability in movement;
- Touch Screens, to work without accessories (keyboard and mouse);
- Integrated optical devices for reading Barcodes, Datamatrix and QR-Codes.



DATAMATRIX / BARCODE READING AND VERIFICATION

The decoding systems can automatically recover data and information on products and materials, unambiguously and accurately.

These devices can **read one-dimensional (1D) and two-dimensional (2D) codes** using various technologies: Laser, 1D Imager and 2D Imager.

CODITECH

FOR OUR CLiENTS

TECHNICAL SUPPORT

Technical support for Hardware and Software on the entire range of machines, guaranteeing immediate availability of technicians and short intervention times.

SUPPLY OF CONSUMABLES, ACCESSORIES AND SPARE PARTS

The whole range of accessories and spare parts for products marketed.

PARTNERS

For us, collaborating with the leading brands in the sector is synonymous with reliability and expertise, as well as being a stimulus for us to continue growing.

Thanks to consolidated Partnerships, we are able to offer a wide range of solutions, aimed at your specific needs.

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