

INDUSTRIAL



MACHINE VISION

ARTIFICIAL INTELLIGENCE

COLLABORATIVE AND MOBILE ROBOTS



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ELECTRONIC TESTING STATION

> MACHINE VISION

ARTIFICIAL INTELLIGENCE

COLLABORATIVE AND MOBILE ROBOTS





- X86 ATOM Platform
- **USB IP67 Connector**
- 20-28V, -30C+85C





CPU & Field interface

- X86 ATOM Platform
- Embedded Microcontroller for I/O interface
- CAN/Gigab ETH/USB/RS 485 /Audio/VIDEO
- 20-28V, -30C+85C





ELECTRONIC OCNTROL UNIT

- Packaging machine controller
- Multi board system
- Electronic plus mechanical assembly and testing





НМІ

- 32 bit Microcontroller (graphic and control)
- 7 inch TFT Display with touch screen
- 2 CAN Lines /USB / RS485
- 8-32V, -30C+85C



ELECTRONIC CONTROLLER

- 32 bit Embedded Microcontroller
- Multiple I/O
- 2 CAN Lines/USB/RS485
- 20 V AC, -30C+85C





IoT Device

- BLE Module for system identification
- Long battery life (10 years)
- Wake up accelerometer
- -30C+85C











VIDEO CODEC

- 4 indipendent channel
- Video MPEG compression
- 2 ETH
- 24V, -20C+70C



SENSORS INTERFACE

- Multi I/O high precision sensors Interface
- 2 CAN, 1 ETH
- 220V AC, -20C+70C



- ZINQ PLC SOM
- Multi I/O high precision Interface
- 2 CAN Lines
- 8-32V, -30C+85C









- Imx6 CPU SOM
- Multi I/O
- CAN/WIFI/BLuethoot
- 20-18V DC, -20C+70C





CPU CONTROLLER

- Raspberry Computer Module
- Multi I/O
- CAN/WIFI/BLuethoot
- 20-18V DC, -20C+70C







RUGGED FIELD CONTROLLER

- X86 ATOM
- Rugged Field controller (Vibration/IP67)
- CAN / ETHERNET / USB
- 8-16V, -40C+85C



BIOMEDICAL





- X86 ATOM for HMI
- Redundancy on 2 Microcontrollers
- Multi i/O interface with safety architecture
- 10-14V, -20C+70C







LEVEL OPTICAL SENSOR

- Machine vision sensor (Matrix Camera)
- Blood Level reader
- Code reader
- 10-14V, -20C+70C



POWER & ENERGY



REMOTE DATA MANAGER

- IMX6 CPU + EMBEDDED Microcontroller
- Multi I/O Interface
- ADSL / 2G / 3G / SAT / ETH
- 8-16V, -40C+85 C



((4))

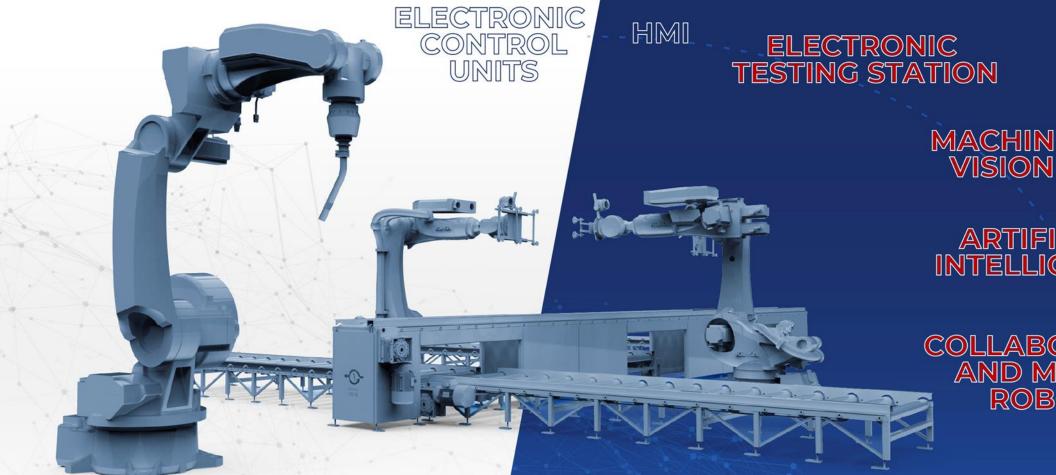
GAS DATA MONITOR

- Ultra Low power Microcontroller
- MID / IMQ / ATEX
- 2G data transmission
- Battery powered, -40C+85C





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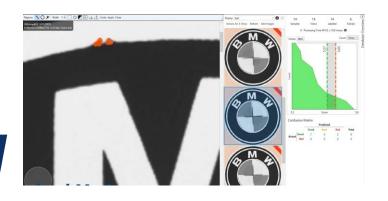


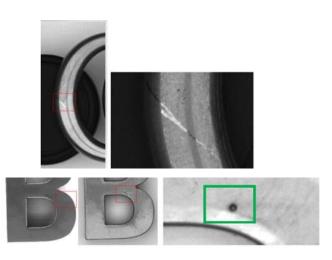
MACHINE

ARTIFICIAL INTELLIGENCE

COLLABORATIVE AND MOBILE ROBOTS

AESTHETICAL







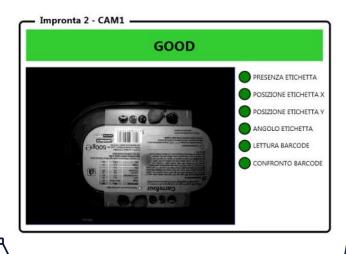
Logo aesthetic check

- Automatic matching to the golden sample
- Machine vision with A.I.



High fashion accessories check

- Automatic matching to the golden sample
- Machine vision with A.I.

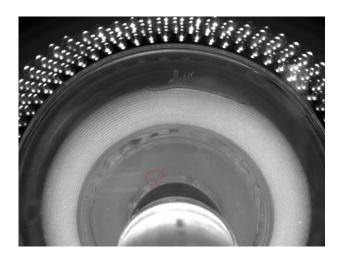


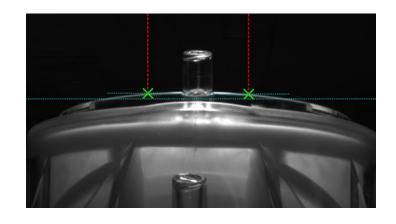


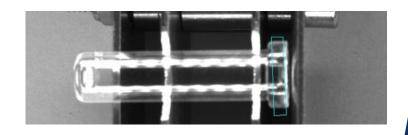
- Automatic matching to the golden sample
- Machine vision with A.I.



AESTHETICAL









Filters for medical oxygen machines

- Check for the absence of glue stains and dripping
- Machine vision with A.I.



Filters for blood treatment machines

- Leaks absence verification
- Machine vision with A.I.

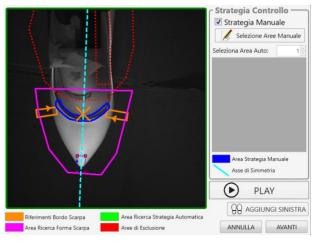


Micro vials test

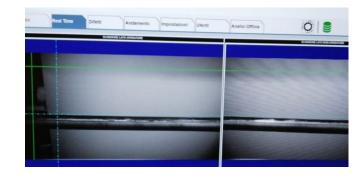
- Integrity check
- Machine vision with A.I.



AESTHETICAL









High fashion leather shoes aesthetic check

- Automatic matching to golden sample
- Machine vision with A.I.



Car leather seats aesthetic check

- Automatic matching to golden sample
- Machine vision with A.I.



Paper and cardboard aesthetic check

- Automatic matching to the reference undulated sample
- Machine vision



COUNTERFEITING





Logo counterfeiting check

- Image classification by artificial intelligence
- Machine vision with A.I.





Logo counterfeiting check

- Image classification by artificial intelligence
- Machine vision with A.I.



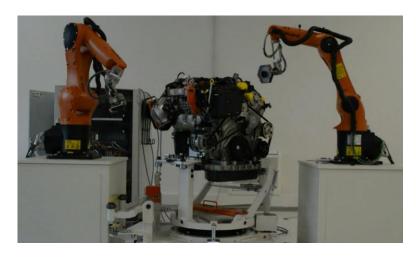
MECHANICAL





Dimensional checks, surface processing, aesthetic checks

- Automatic verification to the golden sample
- Machine vision with A.I.





Mechanical assembly check

- Engine automatic assembly and mechanical check
- Robot vision



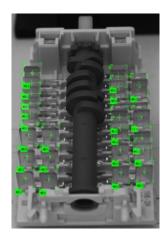
MECHANICAL

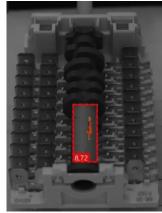


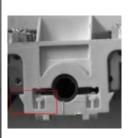


Automatic assembly and testing

- Satellite antenna automatic assembly and testing
- Collaborative robot









Mechanical assembly check

- Owen selectors mechanical automatic check
- Machine vision with A.I.



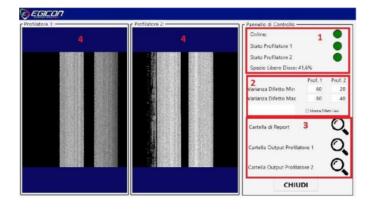
DIMENSIONAL



 Automatic check for in molding labeling correct size and positioning

Molded labels check

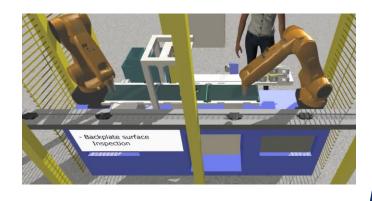
Machine vision





Tires rubber check

- Automatic verification of continuous dimensional control in dies for tires
- Machine vision



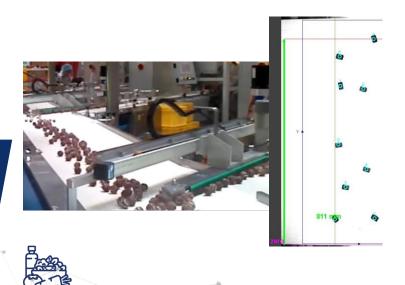


Dimensional inspection of car brake pads

- Dimensional and aesthetic control of car brake pads
- Robot vision

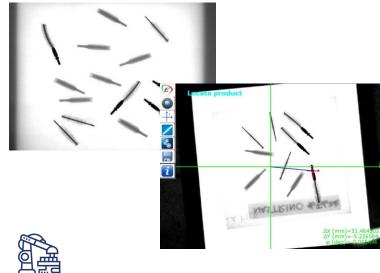


PRODUCTION FLOW HANDLING



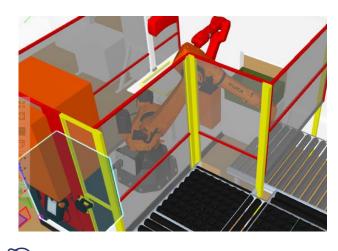


- Counting and sorting of chocolates for correct addressing to packaging stations
- Machine vision



Automatic recognition, picking, sorting

- Recognition, collection and sorting of plastic components
- Robot vision



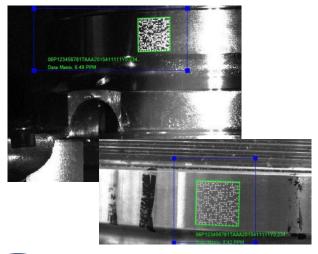


Automatic recognition, picking, storing

- Components recognition, collection and storing into the warehouse
- Robot vision



OCR, BARCODE, DATAMATRIX READING





Datamatrix

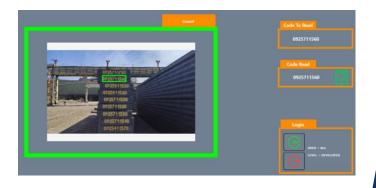
- Automatic datamatrix DPM reading for traceability
- Machine vision





Barcode

- Automatic barcode reading for traceability
- Machine vision





OCR

- Automatic OCR DPM reading for traceability
- Machine vision with A.I.



QUALITY

WE ARE TO GARANTEE THE BEST QUALITY LEVEL.











ISO 9001

ISO 13485

IATF 16949

ISO 14001 IMQ MID ATEX





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