

Intra Robotics The future is now

Machines that talk to the people
Machines that give Information of the productivity - of the status in progress, the yield - that alert possible downtime and are able to self adjust the parameters. The Data are than sent through local network and the clouds.

The current decade is experiencing an industrial change that requires new rules and methodologies. Factories that make the machines talk to people and products between them. Systems manufacturing networked, exploiting the cloud and artificial intelligence to create a single production process. Etneo, with its products, and partner skills is an Actor of the revolution called Industry 4.0.



Vision software learning, teaching and monitoring

The parts and the material become everyday smaller and precise, the majority of the products are than assembly by nano parts, only dedicated vision systems and UI can assure consistent productions.



Vision on Micro soldering

Vision on micro 3D dispensing

NEWSLETTER 02/17

The More you know - The more you Benefit

The slogan has been conceived to invite you to spend some time with us. Our technical, commercial staff has been trained to the today/tomorrow technology in Europe, Asia and Usa directly on Customers applications. We are offering a comprehensive database of experiences and know how being translated into products and solutions to help your production. Your requests are welcome.



SELECTIVE SOLDERING

Etneo has acquired, over the years, the technical knowledge for system design for repetitive and reliable processes in all its automatic soldering systems.



MICRO JET DISPENSING

We changed the dispensing technology by advanced software and vision technology. Precision Robots, precision piezo valves are parts of our solutions.



SOFTWARE INTEGRATION

Etneo is designing applications, most of the time custom for specific needs. It is than essential to write special algorithms to integrate IOT technology with the emerging AI knowledge.



PROCESS HARDWARE

The new tools are the robots, however they need specific parts and controls to dialogue with the software and the Customer application, Therefore Etneo is designing the most suitable hardware,

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Balancing New Robotics/Technology

The Scara and Gantry Robot design, is for easy configuration in automated production lines. The processes Etneo provides are for soldering/dispensing and ancillary assembly requirements.



Human and tool Evolution



from the desktop to the Anthropomorphous

Investing on knowledge

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Etneo Italy is a soldering specialist. The Company has been manufacturing soldering systems and stations with different configuration and for different applications since his creation. The electronics/automotive Industry appreciates the quality of our products and services. The Company, since the beginning has been engaged in the transition from the manual to the automatic work. Today this transition is going at a faster pace. The Robotics technology is offering further possibility to the manufacturing industry to implement more and more automated platforms. Etneo develops its soldering applications/products on the following robot systems:

- DESKTOP
- GANTRY
- IN LINE UNITS

Those are the configurations fully manufactured. Etneo is also Partner of COMAU, Italian Robots leader manufacturer. The Etneo automated stations are integrated in their:

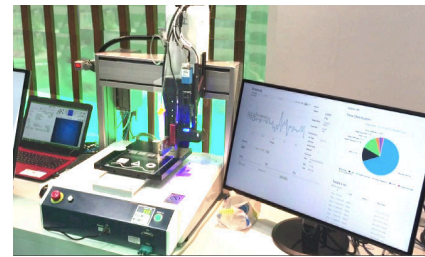
- SCARA MODELS
- 5/6 AXIS ANTROPOMORPHOUS MODELS

The solutions include software and hardware UI.



“Essentially, it shows you how the choice of the robot configuration can significantly improve your yield and reduce your costs”

The user interface of our robotics are Operator friendly. Our systems can be managed by Operators with basic skill. Etneo take care of the soldering/dispensing processes which are usually the most critical parts of the assembly line. To ease the parameters profiling programming Etneo has recently add a Smart vision feature to guide the robotics axis to the target positions and a further vision/camera (for soldering) to help programming and control the performance.



Jet piezoelectric nano dispensing



MASTER SITE
<http://www.etneo.com/>

Integrating Web Stores & Social Media

ETNEO STORES

All Etneo products, including Robots are described and available on line in our STORE. The platform we created allows the user to get pricing, specifications, descriptions and applications video, usefull to make the correct choice. In case of further technical questions, an Etneo specialist is available in Real time during office hours.

<http://www.etneo.com/en/product-category/automatic-robot/>

ACCESSABILITY

Social media such facebook or blogs are improving their presence in the manufacturing Industry. Etneo is using the socials to inform about Exhibitions, special events and product news.

<https://www.facebook.com/Etneo-Italy-285184084862343/?ref=hl>

<https://www.facebook.com/EtneoWebStore/?ref=hl>

MEDIA INTERACTING

Etneo catalogues, brochures, data sheets and Manuals are all digital and on line. Video applications are embedded on our site, while a wide library is available on you tube.

Advance Innovation while controlling costs



Can your company keep up? In Etneo we believe that the cost of soldering Cell and consummable parts needs to be less expensive while keeping the quality. This is our policy for the solder/assembly application made throught an Anthropomorphous 6 axis robot able to replicate the human hand movements. Critical applications they require tool movements in the 3D space to achieve the correct process result. Only such a Robot can guarantee that performance.

Complete range of parts/tools/stations for any application and Robot/Automation configuration



Wide range of soldering tips, both cartridge type (with heater inside) or single tips for all Etneo system range and compatible with most known Robot/stations makers.



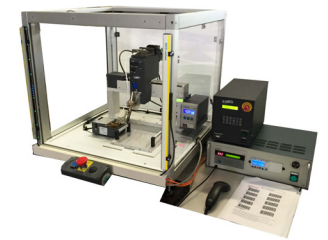
ITECH UPDATE

TECH LAB FOR CLIENTS & OPERATORS

Etneo is currently involved to improve its LAB, where the Customers can see and learn how to use the robots and validate the soldering/assembly process that we provide.

MAKING APPS FOR ASSEMBLY WORKS

As a results of his recent activity, Etneo is developing a special hardware/software package for Robots that include the most advanced data input by barcode reader and manager of the different soldering/assembly programs associated to the productions batch.



TAKE IT TO THE CLOUD

We did mention about Soldering 4.0. This program in development foresee the possibility of uploading manufacturing data to a cloud and manage them through the IOT.

BETA TEST PROVES A SUCCESS

New process robotics and process are on the way: Fine fluid dispensing through non contact piezo valve. Smart screw-tightening with automated Robots. Fully automation functions, both with rotary table or linear conveyor have been already installed: Etneo foresee activity increase for those systems.

