

ET NEO (latin) =
...and new technology



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SELECTIVE ASSEMBLY / SOLDERING & DISPENSING

The Etneo Systems are designed for applications in production lines. The gantry type - they provide an easier integration and allow a higher vision for programming and inspection and subsequent functions. Incorporating a sophisticated feeding and cutting of the solder wire or precision valve for non contact media fluid dispensing. We offer our customers end-users, integrators and specialized distributor, the most advanced tools for automatic SOLDERING and IN LINE units to achieve any kind of dedicated automation for special/ Custom machines. Our systems are/can be equipped with easy to use Vision Alignment / Teaching technology offering:

PRECISION - SIMPLICITY - SAVING LABOUR COSTS

Most of European and World Industries use these systems for their applications in complex lines or flexible production, in various sectors - Electronics, Automotive, Telecom, Electrical etc. - In short in every area where there are the electrical connections to be carried out safely, repetitive and qualitative.



PROCESS AUTOMATION
AUTOMATED SOLDERING ROBOTS

ASSI & ROBOT DI PROCESSO STANDARD & CUSTOM
PER IL VOSTRO SOLDERING E ASSEMBLAGGIO AUTOMATICO
AXIS AND PROCESS ROBOTS, STANDARD AND CUSTOM,
FOR YOUR AUTOMATED ASSEMBLY AND SOLDERING JOBS

follow the leaf



Gantry & Desktop

Automatic soldering Robots Gantry or Desktop configurations - three / four precision axis with automatic solder feeder and tins cleaning.

Functions: they are designed for use in automatic assembly lines, especially for the automotive industry and the technology industry in general. The temperature compensation circuit in real time, allows the soldering at lower temperatures, thus eliminating the risk of damage to boards and components. Possibility of setting various feeding speed wire at any intervals, return wire settable where necessary.

Sensors and alarms to avoid solder wire jams Simplicity and speed for the setting of programs of the working conditions. The operator inserts the known parameters of time and temperature, the software translates them into operation, guiding the hardware with precision. Compact design, with a control in the central body. Advanced temperature control with response within 3 seconds and stability of the perfect temperature with continuous sampling. I/O Ports.

Dual system of cleaning tip: compressed air or special tank with sponges / brushes. Wide range of interchangeable robotic long life tips, standard and custom made. The robots are supplied in safety box or assembly cell, related to the CE requirements, and Customers needs.

STATIONS FOR INTEGRATORS

Soldering Station for applications in complex automations. The integrator provides the axis of movement, Etneo provides all the necessary components. For higher level of automation, Etneo provide the combination of axis as well. I/O port for easy PLC interface. Our Lab welcome any test and process validation trials.



In line solder systems

Etneo IN LINE SYSTEMS are innovative solutions "ready" to be implemented by End User or Integration Company. Their functions, represents an easy and affordable solution for manufacturers of special/Custom machines and for all those customers who want to integrate automated soldering functions to their production of parts.

Etneo Italy is specialized in the soldering of circuitry and electrical / electronic parts. The process of solder with tin alloy is the technique more used in situations when precision is required, repetitiveness and work on more shifts. Soldering Contact with the "hot iron" offered by Etneo, has reached a very high standard of quality, as all aspects of the process are developed and managed with the best available technology and combined with a competitive price.

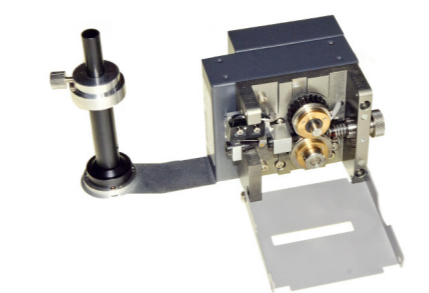
The hardware is guided by a simple and complete software that provides all the most different process requirements.

KEY FEATURES & BENEFITS

- Custom axis lengths - I/O Port
- Tools for Process-mounted in portal configuration (GANTRY) for easy integrations in automatic lines
- Advanced alloy feeders, for both the diameters and the functions
- Alarm management functional process included
- High precision and speed work
- Tools for cleaning up specific tips for alloys in use (LEAD FREE)
- Replacement soldering handpiece without loss of alignments
- High quality of the soldering tip, made of specific materials durability and separate or integrate with the heating element in order to offer **LOW COST OF MAINTENANCE AND SUPPLIES.**



3 Different IRON UNITS for specific requirements



Precision wire feeder with alarms and zero solder balls features



High quality solder tips range, both single and cartridge ones & Custom

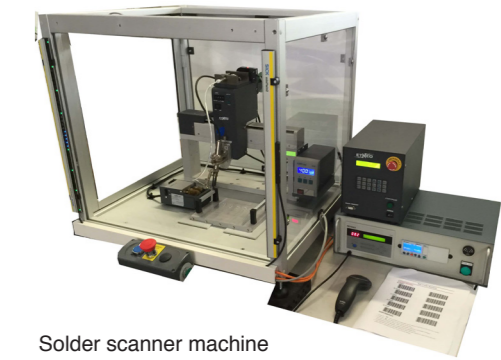


Custom Solder Cells

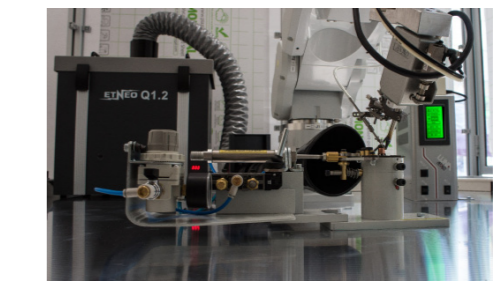
CUSTOM CONFIGURATION & SPECIAL MACHINE FUNCTIONS

The soldering cells can be configured stand-alone, with all the protection and process control necessary and defined, both hardware and software.

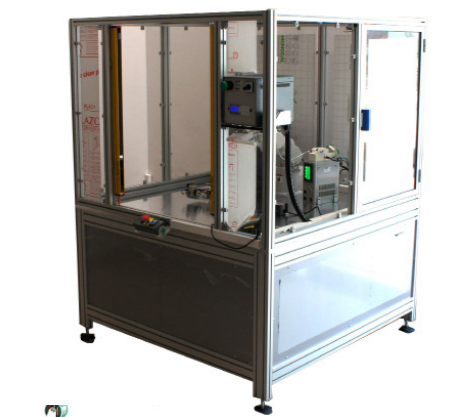
Or they can be inserted into rotary index tables with more functions, in order to better automate the processes of assembly parts. Soldering technology can be "contact type" with Iron dedicated units, or NON CONTACT TYPES Lwith dedicated peripheral components (such as feeder wire or dispense valves for soldering paste) specifications.



Solder scanner machine
The Operator call the program job by scanning the programs table-chart.



Etneo Soldering Integration with anthropomorphic 6 axis Robot. Etneo solder parts are custom made for the most used 6 axis robot, such EPSON - KUKA - MITSUBISHI - KAWASAKI



Special Iron unit and feeder designed for KUKA - ALNEA Zeus Controller



Etneo-Soldering parameters controller with Touch screen Input data.



Dedicated fumes extractor

