

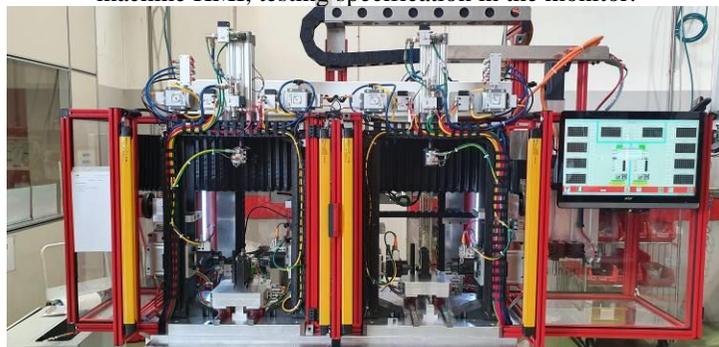


TB4F

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Strong frame easy to move, assisted changeover driven from the machine HMI, testing specification in the monitor.



The two station are completely independent one from the others so, one can be loaded or unloaded when the other is working.

Flexible assembly and testing machine, 5 CNC axes, suitable for:

- Small and medium production.
- Prototypes.

Standard functions:

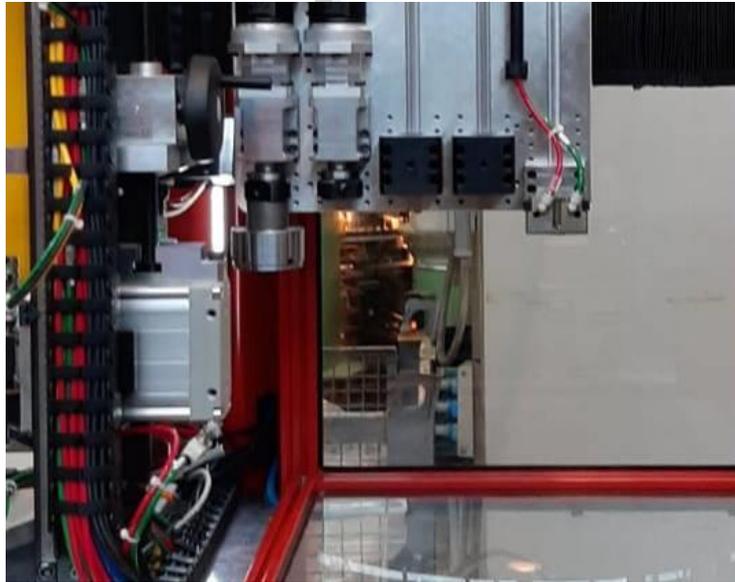
- CNC Screw drive, until 50Nm
- CNC Pinning until 12.000N
- Pressure or flow adjusting.
- Leak, flow, force and torque test.
- Proportional opening.
- Rolling and rivetting.
- Pick and placing.
- Glue dispensing.
- Greasing.

The working program can be done directly from the operator in the machine HMI or off-line, 60 program steps can be linked to create a testing sequence without program language skills; the working sequence may include also some manual operations driven from the machine CNC.

All the process data are stored in the machine CNC in order to allow the traceability of the production and quality. The machine calibration is managed from a dedicated program that will store the calibration data in a separate file.

The pieces shown below are just few of the parts that can be assembled and tested with the machine, the working philosophy is that the operator prepare manually all the parts in the pallet and the machine does automatic assembly and testing.





Changing tools area, easy access and quick coupling.
 Two spindle, two pinning and one jaws as basic tooling.
 Alternative tooling kits can be used for different application.
 Automatic tool changer of 9 tools available as option.

Interchangeable pallets tailor made for every piece.



USB and NETWORK.



Code Reader



Smart info



INDUSTRY 4.0

Process traceability trough, Barcode, Qcode/Datamatrix (optional).

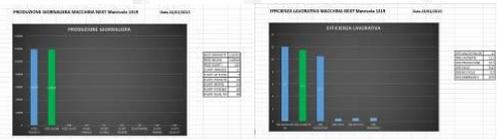
OPERATOR INTERFACE (HMI)

All the machine working steps, are displayed on the monitor with a clear description and a picture or a sketch that show the area of the machine where an eventually fault happened.
 Several languages available and upgradeable.



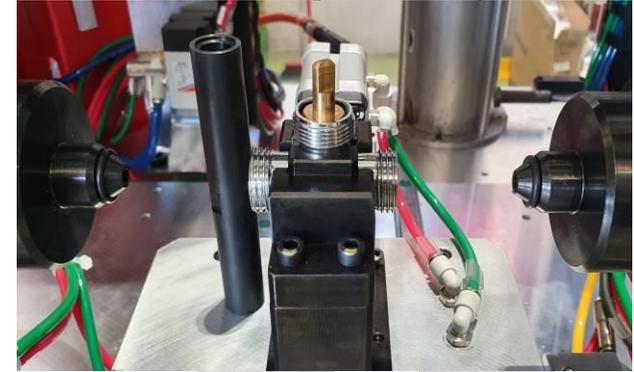
EFFICIENCY

Sometime may happen that also the most performing machine don't give the forecasted production of the day, understand of what happened is not easy because involve also the people who work on the machine, like who have to refill the feeder or who have to fix and reset the machine after a fault.

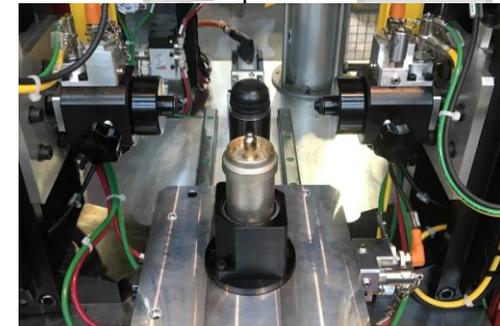


A couple of tables show to the operator the production shared from pieces right and pieces wrong with the causality of the wrong with its own totals. The second table show the total of the hours of the machine online, the total of the work hours, and the dead hours with the causality.

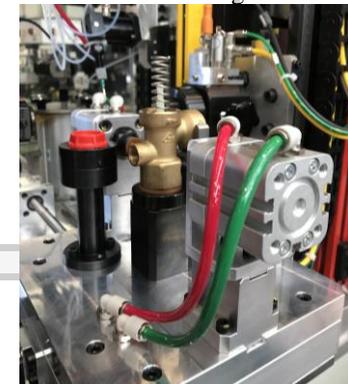
The Pallet has all the pipes, cables etc on itself and this allows fast and reliable changeover. RFID option available.



Stop valve



Air discharger



Safety valve.