

# TB1-AV

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Strong and ergonomic structure,  
easy to use, assisted setup.

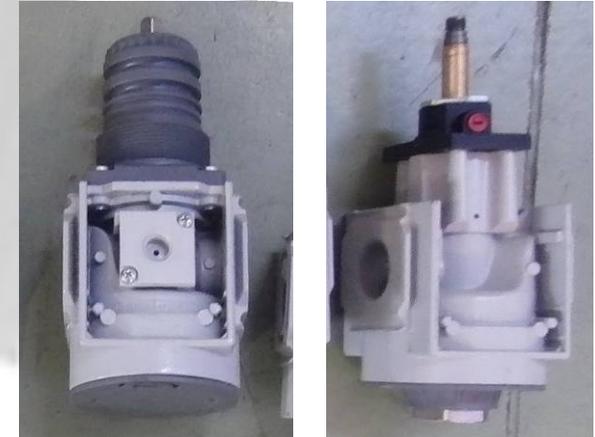
Screw driving machine, suitable for  
pneumatic components, pressure regulators,  
filters and automotive parts:

- Lean production.

Characteristic:

- CNC screw driving (torque angle).
- Not moving CNC motor.
- Programmable torque and/or high.
- Screw position controlled by CNC.
- 3 CNC axes.
- Screw driving area 100x200 mm
- Large parts, single or multiples.
- Screw automatic loading.
- Can manage two different screws.

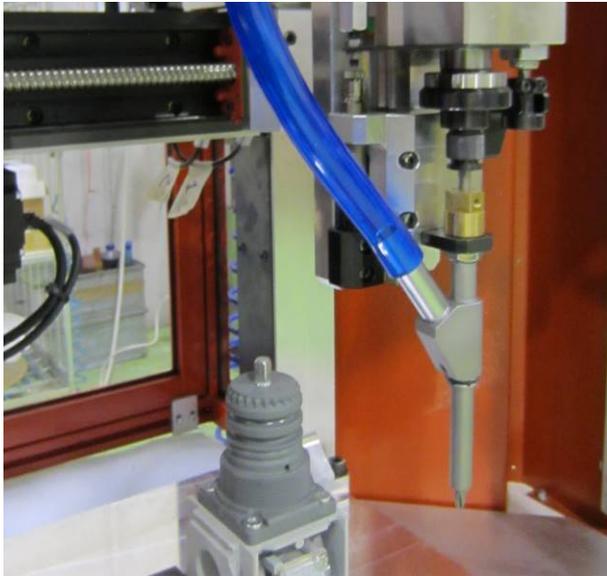
The working sequence can be programmed  
directly in the machine CNC, including also  
manually operations driven by the CNC.  
The working time of the units can be also  
programmed as part of the sequence.  
All the production data are continuously  
saved in the machine memory or directly in  
your network, to allow a real time process  
traceability.  
Calibration data are stored too, in a separate  
file and managed form a dedicated scheduler.



Parts that can be screw driven in the machine just changing  
simple fixture with quick changeover.



Can screw drive single pieces with lots of screw or multiple  
pieces with few screw just using multiple fixtures.



The screw driving sequence, positioning the first screw without any torque, then screw driving in torque the opposite screw the other 2 crossing the position, at the end back to the first screw to lock it with the right torque.



USB and NETWORK.



Code scanner



Process traceability through bar or Q code (Data-matrix).  
Automatic upload of the working programs  
Continuous storage of the process data.  
Remote service available on all the machine components.

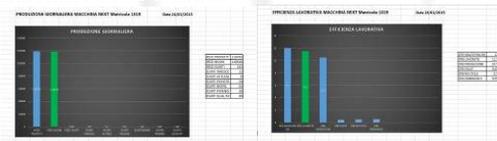
### OPERATOR INTERFACE HMI:

All the program step is shown, in a 23" touch monitor. With a clear description of the working step, the values and a help picture about the fault areas.  
The HMI is available in different languages and use icons, to help operators not mother language.

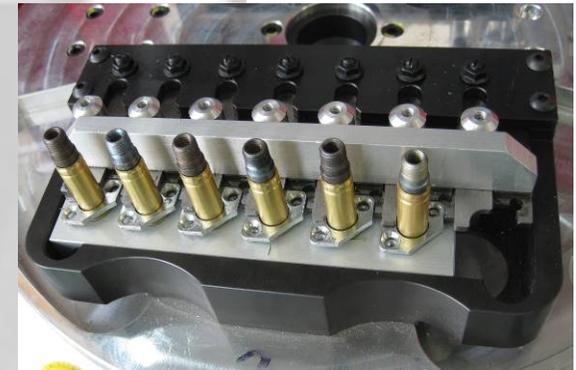


### EFFICIENCY

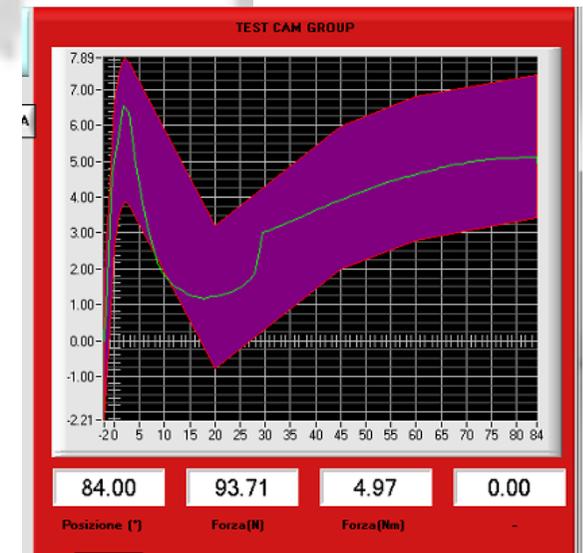
Sometime may happen that also the most performing machine don't give the forecasted production of the day, the understand of what happened is not easy because involve also the people who work on the machine, like who have to refill the feeder or who have to fix and reset the machine after a fault.



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 on line, the total of the work hours, and the dead hours with the causality. Available also on your smartphone.



Multi screw manifold



Torque and screw position real time graphic.