Traceability System

For a well-known multinational automotive company we have created a Traceability System for one production line that includes 9 processing stations (welding, tightness control, screwing, vision and pick to light).

The traceability in this case is related to all the processing of the pieces that will form the finished product at the end of the line with relative machining status OK or NOT OK.

Furthermore, the flow of components within the line is in real time on the line SUPERVISOR, on all stations of reference and on the various mobile devices (smartphone, tablet, PC, etc...).

The System includes

- a server application that manages flows, acceptance or less than pieces, the start of production cycles and saving traceability data;
- 11 barcode scanners used by operators to identify the pieces in production. They are connected in ethernet with the application that receives information about the parts and uses them for the management of the line;
- a supervisor application that tracks in real time all activities in progress within the line, allows for view the reports on the productions made on the line and takes care of printing the traceability labels when the piece leaves the line, the label of the container one achieved a precise number of finished products and the OEE label containing the performance of the line in turn.

All communications between devices, PLCs of the banks, applications and scanners are carried out via a dedicated Ethernet network.

The peculiarity of the system lies in being able to put in communication all the communication stations between them through a server application that acts as a connector and logic controller of the flows within the line itself.