



**ECONOMIZERS
AND MANAGEMENT SYSTEMS**

Economizers

VISION

Absolute reading accuracy

Vision is the spraying process control system, conceived and entirely developed in Todesco. The system recognizes the shape of the hides on which to spray the chemical product, through the reconstruction of over 100 frames per second taken by two HD cameras.

Vision's reading accuracy is absolute since it is not subject to the step between the photodiodes as happens in systems that use a standard reading bar.

Electronic devices are far from the conveyor belt of the spray line and therefore immune to deposits of dust, color and neglect.

Duration over time

The Vision system works with an industrial PC and therefore does not suffer from hardware obsolescence.

The Vision software, created in Todesco, is "user friendly" and communicates with an OPC-UA, compatible with the most modern SCADA architectures. The constant software updates for the implementation of new functions are installed remotely, as is the remote diagnosis, assistance in use and resolution of any problems.

Processes under control

Vision allows the automatic management of three autonomous color circuits and a separate washing circuit. Includes quick color change and autonomous washing functions of the guns and of the distribution circuits in the machine. The working parameters and the recipes can be set for each item and can only be modified by accessing with a second level password, reserved for the responsible supervisor.

Thanks to the interface with the Statwatch system, it is possible to monitor all the production performances of the machine and the set right actions to improve the use of the spray booth.

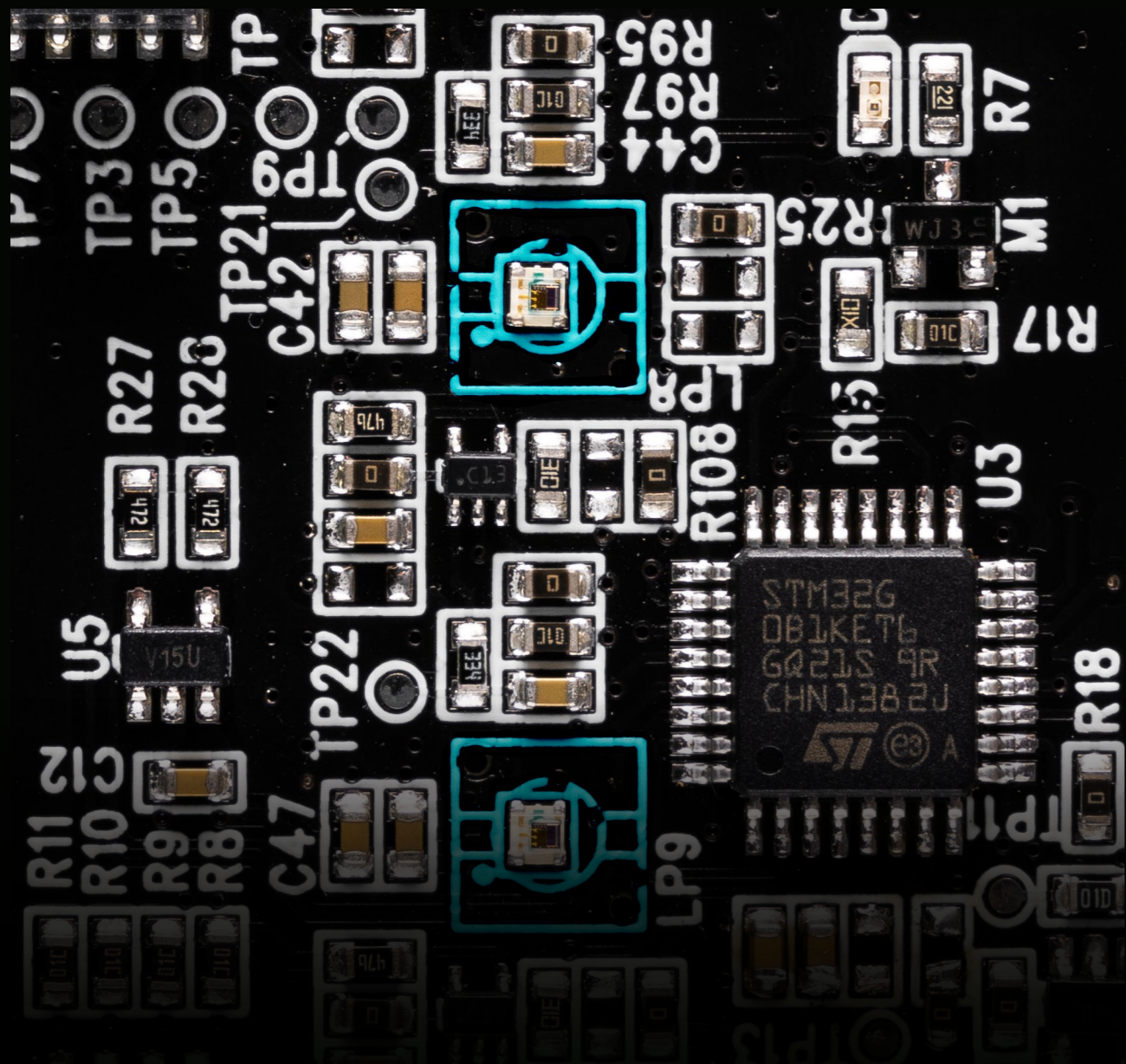


Industry 4.0 and diagnostics

All Todesco devices are created to be suitable for Industry 4.0 requirements.

All Todesco devices can communicate via VPN and be monitored in real time. Compatibility with corporate ERP and SCADA systems is possible through the SQL, MQTT and OpcUa languages.





Simply eternal

Microp is the system for the management of the spray booth and economizer of chemical product. It comes from over 40 years of experience in the production of such systems.

Microp is the first economizer in the tanning industry based on industrial PLC. The special reading bar made up of Opto Module modular elements communicates with the best-selling industrial PLCs easily available on the market.

In this way Microp does not suffer from component obsolescence and spare parts are available all over the world.

Unlimited functionality

Each parameter can be viewed and varied through a remote interface: with the use of a tablet the operator can move along the finishing line and manage each parameter in an easy and intuitive way.

Precision and simplicity

The reading bar operates above the skin, contrary to the technologies currently in use. A detail that avoids any accumulation of dirt that obscures the reading devices, as source of a useless and expensive overspray.

The wide range of Microp's reading spectrum allows it to easily detect skins with printed surfaces (reptiles, crocodiles), with fluorescent and reflective colors, such as metallic paints.

Intuitive interface

Microp has a very clear and easy to understand user interface through which it is possible to set the working parameters and create recipes for each type of article.





Management systems

First quality electrical switchboards

The electrical switchboards of all Todesco machines are made with first-rate components, guaranteeing a high-quality standard.

The electrical and physical sizing of the equipment, cables and their interfacing is performed in full compliance with the requirements imposed by the IEC and CE standards. On all switchboards there is a phase control system and safety devices for 24 V signals with electronic control that does not require the use of fuses.

The in-line motors are controlled by inverters to each of which a filter is applied in dedicated input and output to minimize electrical noises and to reduce harmonics fed into the network to negligible values

The switchboards are fitted with a heating system on board for temperature and humidity control, special cooling fans in case of high ambient temperatures and an integrated UPS to keep the economizer active in the event of a power failure (necessary to be able to wash the circuits even in the absence of power supply).

Control and communication

Energy saving

Each Todesco line includes the Power Safe function, that is a program aimed to save energy if the machinery is not in production. The rules that determine the reduction of the speed of the motors or their stop, the partial or total shutdown of the drying tunnels, the closing of the steam valves or the turning off the infrared lamps, as well as the activation of the stand-by state of the machine, can be defined by the operator and can be modified according to each specific situation.

Sensor package

Todesco automation systems provide for the applicability of up to 60 sensors of various kinds. The user has the possibility, without having to integrate new components on the switchboard, to control parameters such as: measurement of fluids (chemical product, water, steam, air used), temperature sensors inside the drying tunnels, detectors of the temperature on the grain of the leather, analysis of the state of the filters installed in the dust abatement systems.



Todesco S.r.l.
Via Pasubio, 60 - 36051 Creazzo (Vi) - Italy
todescosrl.com • info@todescosrl.com