






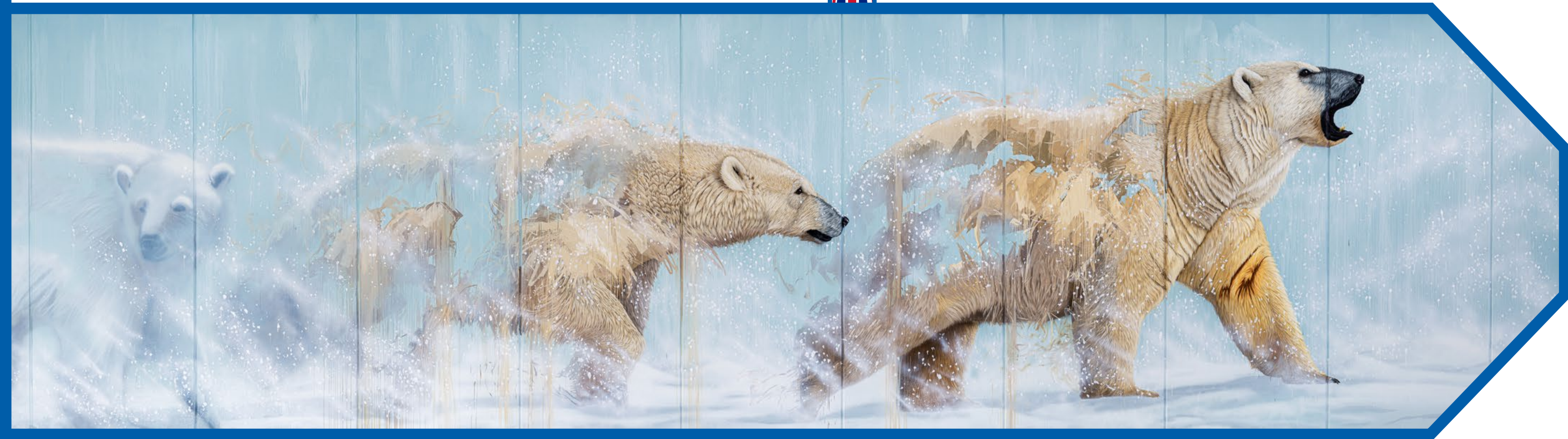


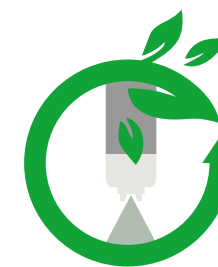
**DISCOVER THE SMARTLINE**

 ENERGY SAVING system	-50% KWH
 HEAT RECOVERY system	+40% HEAT RECOVERY
 PRESSURIZATION system	-99% DUST
 DOUBLE CONVEYOR system	-40% H2O
 ECOLOGICAL SPRAY system	-40% CHEMICAL PRODUCT
 FAST CHANGE system	-50% TIME
 CONTROL system	100% CONTROL (4.0)

\* This is an average savings estimate verified in collaboration with our customers.



**CERTIFICATIONS**



**ECOLOGICAL SPRAY**  
system

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BARNINI  
ITALY

ROT-S

SPRAY STATION

FAST CHANGE SYSTEM

**BARNINI**  
**BRAIN IN**  
**INNOVATION**





# ECOLOGICAL SPRAY

system

ECOLOGICAL SPRAY is the greenest and most efficient technological innovation for leather spraying. It is the result of a multi-year research and development project in collaboration with professionals, universities and companies from alternative sectors. Continuous research and multiple synergies for development has given light to the most evolved solution for the progress of spraying systems.

The main benefits of the system are:

- Better finishing quality
- Drastic reduction of paint passes
- Chemical product savings
- Water saving
- Time saving for spray booth cleaning
- Drastic reduction of water contamination
- Drastic reduction of air contamination

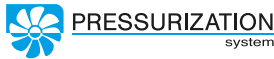
The innovative ECOLOGICAL SPRAY package includes:

- **B54** HVLP automatic spraying gun

Accessory for B54 gun: **Automatic** chemical flow **regulator**

- **SPRAYSTATION** Panel Pc with 15" Touch Screen
- **SMARTSCAN** Leather reading bar with 5 mm pitch

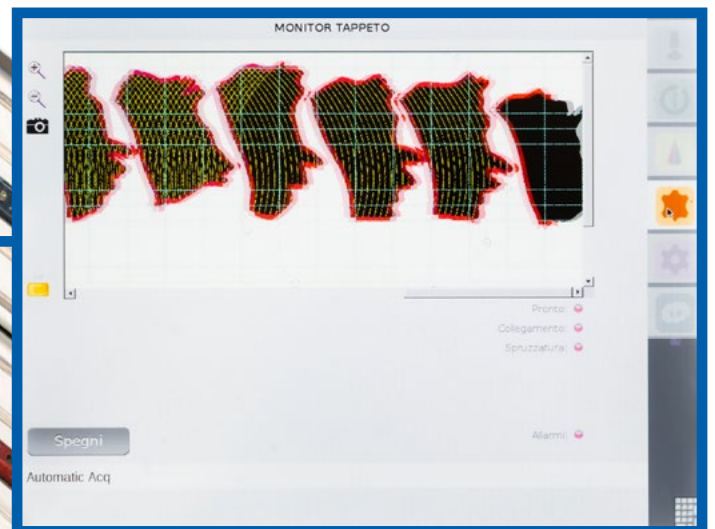
ECOLOGICAL SPRAY is added to the "SMART SYSTEMS" packages of our production:



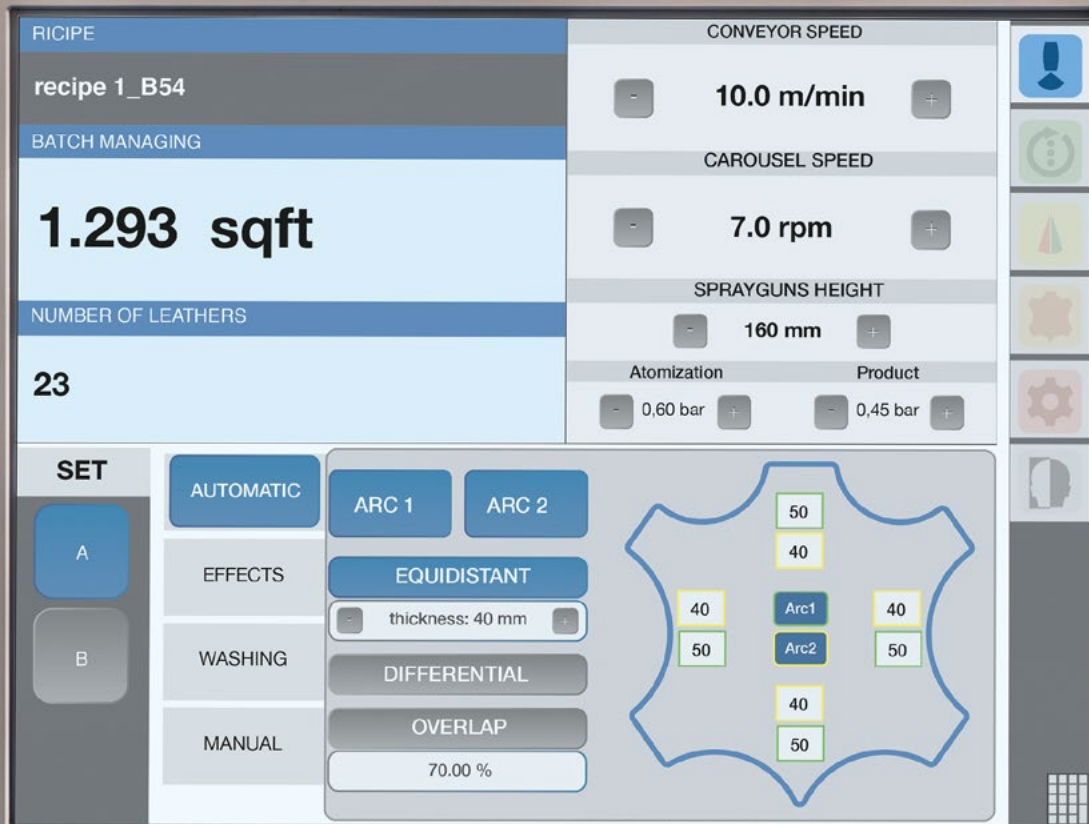
On the back side you can find the estimated savings values by investing in the full optional spraying line "SMARTLINE".

## SMARTSCAN

Smartscan is the most defined and precise leather scanning bar in the world, the projectors and receivers are **spaced at 5 mm**. The system guarantees a perfect screen of all edges of the leather optimizing spraying and measurement. Possibility on customer's request to scan the leather through a linear camera by paying attention to the limits of the same (e.g. laminated leather or metallic or fluorescent)



**NEW PATENT**



## SPRAY STATION

it is the most advanced technology for optimizing the spraying process.

It guarantees production at minimum costs, control and saving of all parameters for traceability and reproducibility, all on a simple and immediate 15" touch screen.

It is the "ALL IN ONE" solution able to control all the parameters of the spray line:

- Paint economizer (leather edge margins, solenoid valve times)
- Leather measurement with display page (sqft, sqmt, sqdm)
- Paint distribution (overlap, air atomization, quantity of chemical for each gun)
- Fast Change (color change, loading, unloading, washing of the paint circuit simultaneously with the work in progress)
- Energy Saving (speed control of each motor group)
- Control System (spray booth, anti-pollution system, drying tunnel, cooler)
- Assistance in remote

Note: Suitable for Industry 4.0 (interconnection with company management systems)



**NEW PATENT**

### **SPRAY GUN B54**

Automatic HVLP spray gun of high quality and reliability to meet the needs of most markets demanding. The automatic spray gun B54 guarantees maximum transfer efficiency, certified by Fraunhofer IPA.

Technical data:

Atomization 0.3 – 0.9 bar

Min flow rate 0.3 g/min Max flow rate 1800 g/min

Max density 45 " cup ford 4

Min application 0.5 g/sqft Max application 19 g/sqft

Application sectors: automotive, upholstery, footwear and fashion

Materials: gun body aluminum alloy, AISI 303 stainless steel for the paint passages.

Nozzle sizes: 0.6 / 0.7 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8

Types of fan: RB head (mixed coating effect), P2B head (coating only)

### **Automatic regulator**

The flow regulator allows the simultaneous regulation of the product flow on all guns. The automatic adjustment can be set from the touch screen and saved in the job recipes (Spray Station) can be applied to all guns except Airless and Airmix.





## FAST CHANGE system

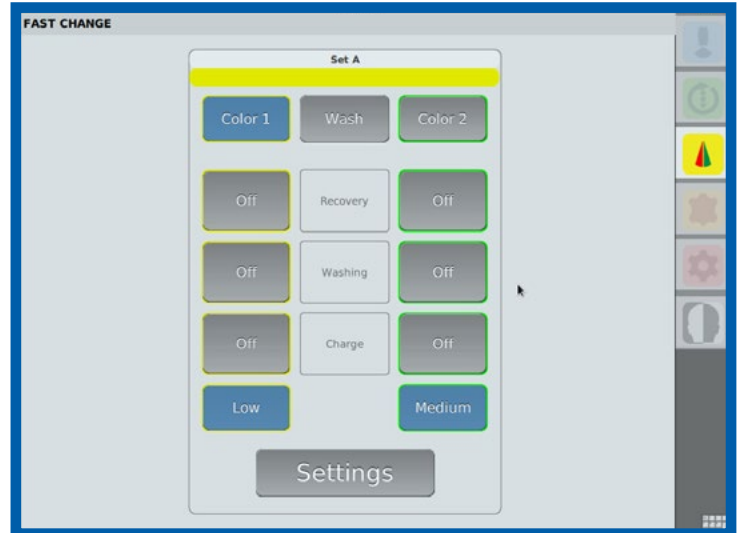
The system for the fast color change allows to perform the washing operations of the circuit, the loading and the unloading of color at the same time as normal processing, reducing the unproductive times present in the current painting lines.

The main benefits of the system are:

- Elimination of dwell times for color change.
- Elimination of paint waste.

The FAST CHANGE package includes:

- Quick color change block.
- Paint distributor.
- Fast Change app on SprayStation.



### Quick color change block

Block completes with 3 pneumatic actuators that enable passage on the color ring "1" or color "2" and rapid washing of the nozzle and head (solvent or water) "3".

Block made with main body totally in 303 stainless steel. The actuators group is in anodized aluminum alloy.

### Paint Distributor

The paint distributor has been designed to manage 10 paint circuits and 3 air compressed circuits.

Built with the best technologies; ceramic coating, color collectors in bronze and preloaded sealing gaskets.

A combination of materials that is summarized in an innovative product also performing in terms of wear over time.

### Fast Change App on SprayStation

The quick color change block is managed by the SprayStation main control system which manages the times of washing, loading and unloading colors 1 and 2 according to the different densities of the chemical product. All functions are shown in a single simple and intuitive window.

