Lesta®

YOUR SMART ROBOTIC FINISHING

CATALOGUE

Robotic solutions
for your finishing plant

ECO2 CARE

Made in Italy
CERTIFICATE
IT01.IT/2380.051.V


Lesta
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Lesta

INDEX

WHAT WE MEAN BY

SELF-LEARNING ROBOTS

The self-learning concept is based on the "teach" function. The robot, during the learning phase records real time movements of the axes piloted by the operator. The operator uses the handle attached to the robot's arm during the teaching phase. When the teaching phase is completed, the robot can reproduce the same movements in "auto play" mode.

The "teach" process consists of 4 phases:

01

NAMING

Each course must have a unique name. The teachings can be aggregated into "programs" so that they can be carried out in sequence.

02

"CONFIRM "READY" AND "GO OFF THE HOOK"

The robot needs a confirmation to proceed and to release its arm so that the operator can move it without any effort.

03

TEACHING

The paint gun is connected to the robot's wrist and is used to paint a sample piece allowing the robot to record the movements.

04

SAVING

The teaching can be saved or aggregated with other teachings to create one program, it can be deleted or immediately reproduced.

BENEFITS OF A **SELF-LEARNING** ROBOT

PROGRAMMING TIME EQUAL TO THE TIME OF THE FIRST PAINTING

USER-FRIENDLY SOFTWARE EASY TO USE

TEACHING

AUTOMATIC PLAYBACK

WHAT WE MEAN BY

INDUSTRIAL ROBOTS

For each use, where a robot does not have to learn the program through a "self-learning method", Lesta integrates industrial robots into its own advanced systems. The purpose of this integration is to simplify the use of the industrial robot and the controller through Lesta's innovative software.

Unlike Lesta's self-learning robots, industrial robots have very heavy arms that cannot be 'unlocked' and moved directly by manipulating the spray gun.

KUKA | Official System Partner

INDUSTRIAL ROBOTS IN SELF-LEARNING

Some industrial robots commonly known as "collaborative" can be moved by the operator (with the motors always switched on) to record programs through self-learning method.

However, this does not register painting in real time as it happens with the self-learning Lesta models.

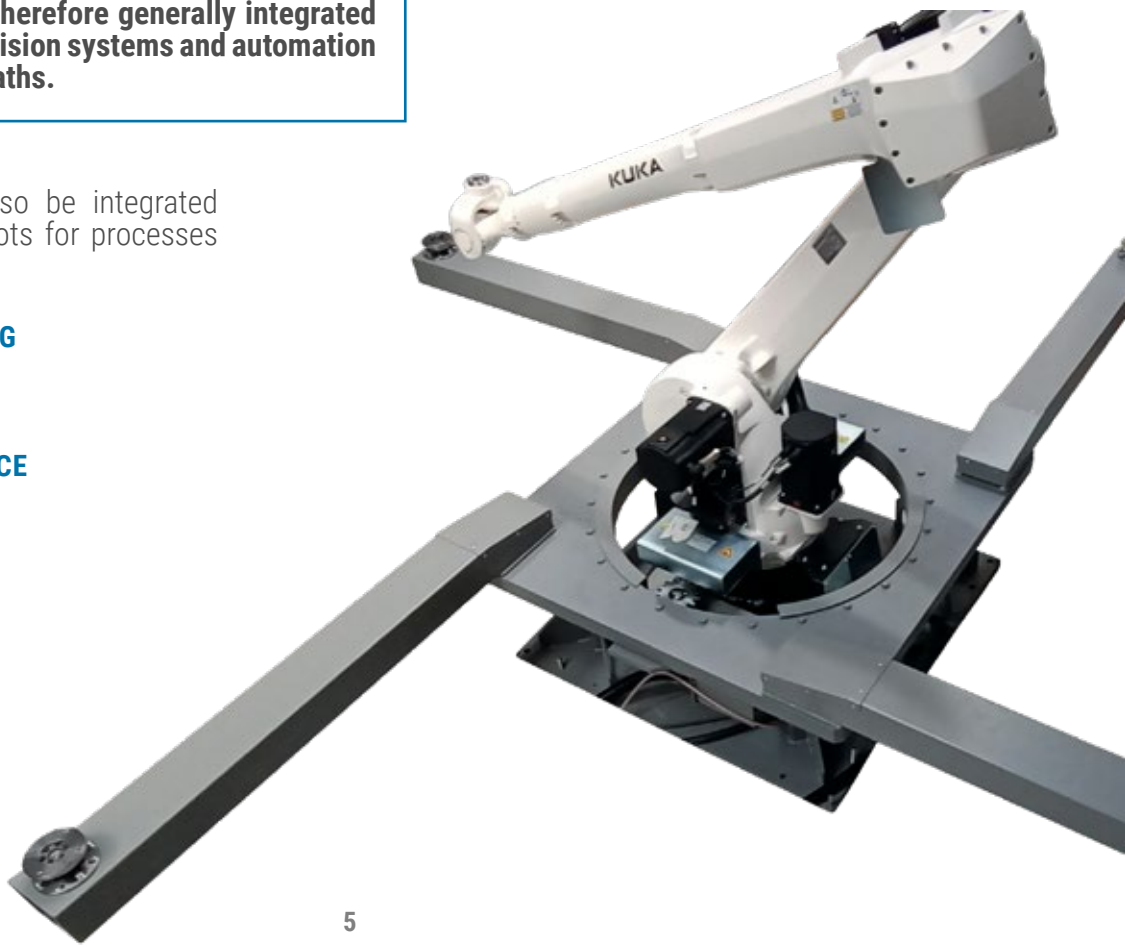
Industrial robots are therefore generally integrated by Lesta with 2D / 3D vision systems and automation generating painting paths.

BENEFITS OF A **INDUSTRIAL** ROBOT

- **LARGE ACCESSIBILITY OF THE WORKING AREA**
- **MORE CAPACITY ON THE WRIST**
- **MORE ACCURACY (REPEATABILTY)**

Lesta's software can also be integrated with other industrial robots for processes such as:

- **SANDBLASTING**
- **PICK AND PLACE**



ROBOT

Lesta LEBOT **MV A6**

6-axis anthropomorphic robot
for self-learning finishing

Protection class: **ATEX zone 2/22 Cat. 3G**
Arm material: **Aluminum**
Wrist payload: **4 Kg**
Total weight: **380 Kg**
Repeatability: **±3 mm at the wrist**
Full speed: **1000 mm/s**
Possible configurations: **Upside down, floor, carriage, carousel**
Power supply: **3x400 VAC**
Programming: **Self-learning, Point to point lite, offline, 2D and 3D vision systems**

VIDEO **DATA**

ATEX environment compatible

Lesta LEBOT MV A6 on chariot
LIQUID APPLICATION FOR METAL

Lesta LEBOT MV A6 on carousel with Easy prog 2D
LIQUID OR POWDER APPLICATION FOR SMALL PLASTIC AND METAL COMPONENTS

A system with Lesta LEBOT MV A6 on carousel with 2 variable geometry arms for painting fashion accessories.

ROBOT

Lesta LEBOT **MV A5**

5-axis anthropomorphic robot
for self-learning finishing

Protection class: **ATEX zone 2/22 Cat. 3G**
Arm material: **Aluminum**
Wrist payload: **4 Kg**
Total weight: **320 Kg**
Repeatability: **±3 mm at the wrist**
Full speed: **1000 mm/s**
Possible configurations: **Upside down, floor, carriage, carousel**
Power supply: **3x400 VAC**
Programming: **Self-learning, Point to point lite, offline, 2D and 3D vision systems**

VIDEO

DATA

ATEX environment compatible

Lesta LEBOT MV A5 on a carousel
LIQUID APPLICATION FOR WOODEN CHAIRS

ROBOT

Lesta LEBOT **I A6**

Industrial-type 6-axes anthropomorphic robot

Protection class: **IP65**
Arm material: **Casting of light alloys**
Repeatability: **±0,05 mm at the wrist**
Full speed: **1500 mm/s**
Possible configurations: **Upside down, floor, carriage, carousel**
Power supply: **3x400 VAC**
Programming: **Lesta PAINT STUDIO, 2D and 3D vision systems**

VIDEO **DATA**

ATEX environment compatible

Lesta LEBOT I A6 on carousel with Easy prog 3D scan
LIQUID APPLICATION FOR WOOD

ROBOT

Lesta LEBOT **WP**

ATEX environment compatible

Small 3-axis robot,
minimum footprint and minimum investment

Number of axles: **3**
Protection class: **ATEX zona 2/22 Cat. 3G**
Arm material: **Aluminum**
Wrist payload: **2 Kg**
Total weight: **72 Kg**
Repeatability: **±1,5 mm at the wrist**
Full speed: **600 mm/s**
Possible configurations: **Upside down, floor, carriage, carousel**
Power supply: **3x400 VAC**
Programming: **Offline, Point to point lite**

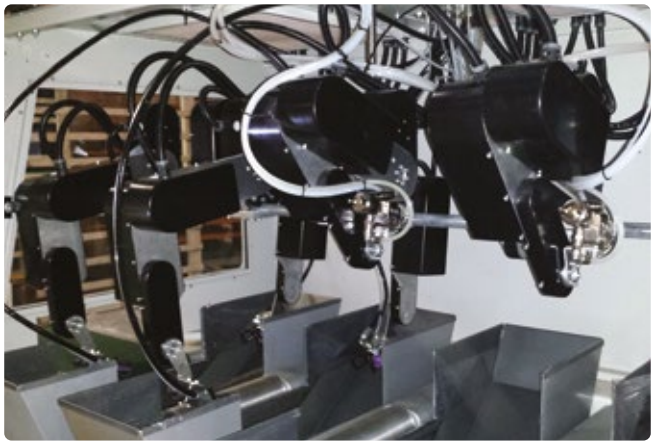
VIDEO

COMPACT
it takes relatively small space

ECONOMIC
It is the cheapest investment from the entire Lesta line

2 FUNCTIONS
It can be used as a positioner or it can repeat painting paths with its 3 axes

Lesta LEBOT WP AS A SPRAY GUN POSITIONER



Lesta LEBOT WP mobile conveyor
LIQUID APPLICATION FOR PLASTIC HELMETS

Plant with Lesta LEBOT WP mounted on a small mobile conveyor with integrated panel. The robot is configurated to repeat a continuous movement

ROBOT

Lesta LEBOT **C**

5-axis cartesian robot

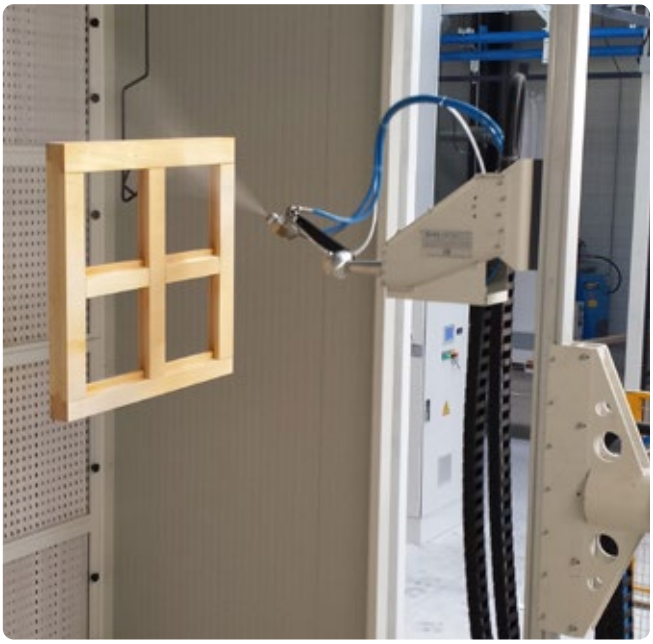
Protection class: **ATEX zona 2/22 Cat. 3G**
Wrist payload: **4 Kg**
Repeatability: **±3 mm at the wrist**
Full speed: **700 mm/s**
Power supply: **3x400 VAC**
Programming: **Offline, 2D and 3D vision systems**

VIDEO

ATEX environment compatible

Maximum window sizes and bespoke options
The structure, as illustrated, can paint windows up to **5 meters wide and 3 meters high**.
The structure also requires our technical team to adapt the system.

Lesta LEBOT C for classic windows
LIQUID APPLICATION FOR WOODEN WINDOW FRAMES



USE
Commonly for painting windows and frames

SOLIDITY
Chain is used to handle the wagon

SPEED
The wrist is applied to a **linear belt guide**

ADAPTABILITY
Length, **height** and **depth** of the structure **can be customized**

FULL SYSTEM

Lesta SAMPLE MAKER

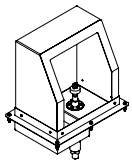
Complete system for painting with small quantities of paint, ideal for the processing of paint samples and test objects, or for conducting tests with specific painting parameters. Once optimised, these parameters can also be applied to large-scale production.

Dimensions of the robotic island:
Standard height: **2600 mm**
Standard width: **2800 mm**
Standard depth: **2000 mm**
These dimensions can be customised.

VIDEO

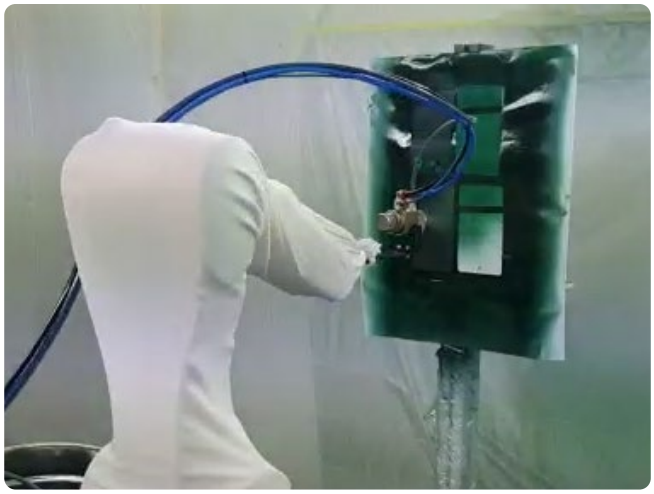
DATA

ATEX environment compatible



Includes a cleaning station for automatic cleaning of the spray gun nozzle and cup attachment

LIQUID APPLICATION FOR COLOUR SAMPLES



CONTROL CABINET

Lesta LECROB
Robot Controller

Robot interface and control pulpit equipped with 15" touchscreen and **Lesta LECROB Robot Manager** management software.

CONTROL CABINET SOFTWARE

Lesta LECROB
Robot Manager

Lesta LECROB Robot Manager is software for the control and management of **MV series robots**. In addition to the standard management of a self-learning robot for painting, it provides the following functions

MODULAR ROBOT SPEED
With perfect reproduction, 70% to 130% of teaching speed

ARCHIVING OF PROGRAMS
On local memory, on USB key or on a network path

PICTURES AND NOTES FOR THE PROGRAMS
Each program can be associated with an image and/or a "various annotations" file

5 LEVELS OF ACCESS AND USE
Access to specific machine functions, only for authorized personnel

MAINTENANCE STATISTICS
Graphic indicators divided by activity (lubrication, greasing, routine maintenance, chain change)

ROBOT CALIBRATION
Quick and easy verification of machine zeros (encoder zeros) and with guided and intuitive encoder calibration

CUT OF DOWNTIME
The time in which the robot is not moved and the gun does not dispense paint can be eliminated through an optimization

ARCHIVING OF PRODUCTION DATA
Microsoft Excel .csv files or MySQL database

REMOTE UPDATES
Remotely upgradeable software

CONTROL CABINET

Lesta LECROB
I Controller

Robot interface and control console equipped with a 15" touchscreen and management software **Lesta LECROB I Manager**

CONTROL CABINET SOFTWARE

Lesta LECROB
I Manager

This is the dedicated software for controlling the **Lesta LEBOT I A6** series robots.
It also provides the following features:

SIMPLIFIED INTERFACE
Interface with aggregated and simplified functions

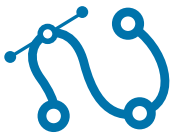
SIMPLIFIED ACCESSORY MANAGEMENT
Each accessory has a direct interface connection with a minimum number of interaction buttons

SIMPLIFIED MAINTENANCE
Direct access to 'special' positions dedicated to maintenance

REMOTE UPDATES
Software can be updated remotely (via internet connection)

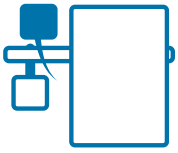
Plug-in

POINT TO POINT LITE



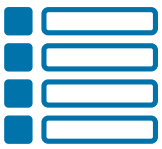
This plug-in optional feature allows the generation and processing of a virtual painting path by **physically directing the spray gun to the desired points and confirming chosen locations with a click on the joystick**. Through the plug-in interface, available with the Lesta LECROB Robot Controller, it is possible to use selected points and generate the path via software. This is done by setting different parameters such as speed, acceleration, distance from the piece, gun parameters (atomization, flow rate and fan), and more.

VIRTUAL START CYCLE



Where systems have a conveyor, **the cycle start sensor** is mounted to allow the start of the painting program. When it is not possible to install the cycle sensor in the cabin due to dirt, ATEX or other reasons, it is fitted outside the cabin along the conveyor and the **virtual limit switch plug-in** will calculate the exact moment for the robot to start reproducing the program.

INTERNAL QUEUE

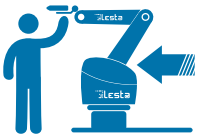


This plug-in optional feature allows you to define, from a list of programs, the order in which they will be executed. The operator can always step in and control programs by setting the order on the screen of the **Lesta LECROB Robot Controller**.
This plug-in is widely used in configurations with a carousel.

QUICK START

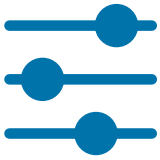
This plug-in allows you to record a program and, as soon as the recording is finished, to start the automatic cycle with 1 click.
This plug-in is widely used on solid lines

FOLLOW ME



Is a systems where the robot is mounted on a carriage. When the operator has to perform movements that are larger than the usual working area of the robot, the carriage will allow the robot to reach larger spaces without the need of using the external push-button The robot will physically move on the cart independently following the movements of the operator. All these movements, in the "teaching" stage, will be recorded and will be repeated in the "automatic repeat" stage

ADVANCED EDITING PAINTING PARAMETERS



Allows you to modify the 3 main paint dispensing parameters:
1. SCOPE
2. ATOMIZATION
3. FAN
for time intervals chosen within a program after it has been created.
The gun that is mounted on the robot's arm must be equipped with a predisposition for this function.

POWDER PACK

Software option dedicated to powder systems:

1. SAVE PAINT
The powder is dosed only when the element reaches the operator and the registration of movements begins

2. CLEANING FROM THE OUTSIDE
It allows you to start and manage washing activities from external devices.

3. MANAGEMENT OF THE ELECTROSTATIC GUN
A special holder is installed which isolates the spray gun.

LIQUID PACK

Software options dedicated to liquid systems:

1. MANAGEMENT INTERFACE WITH EXTERNAL COLOR CHANGING SYSTEMS

2. AUTOMATIC CLEANING

3. MANAGEMENT OF THE ELECTROSTATIC GUN

FIBERGLASS PACK

Software options dedicated to fiberglass, gelcoat, and resin systems:

1. AUTOMATIC WASHING POSITION AFTER EACH CYCLE

2. GLASS FIBER DISPENSING DOSAGE BY MANAGING THE CHOPPER

3. MANAGEMENT OF GELCOAT AND RESIN VALVES

EXTERNAL PROGRAM SELECTION

This plug-in enables the selection and launch of paint programs by an external system, e.g. a PLC controller.

The robot can receive program code via hardware signals or different fieldbuses.

INDUSTRY CONNECTOR

Connects the robot to factory computer systems for the exchange of production data.

SMART APP

The **smart app** plug-in allows you to monitor the status of Lesta robots on any device (PC, tablet, smartphone)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INTEGRATED ACCESSORIES

Easy prog PORTAL

AUTOMATIC PROGRAM GENERATION

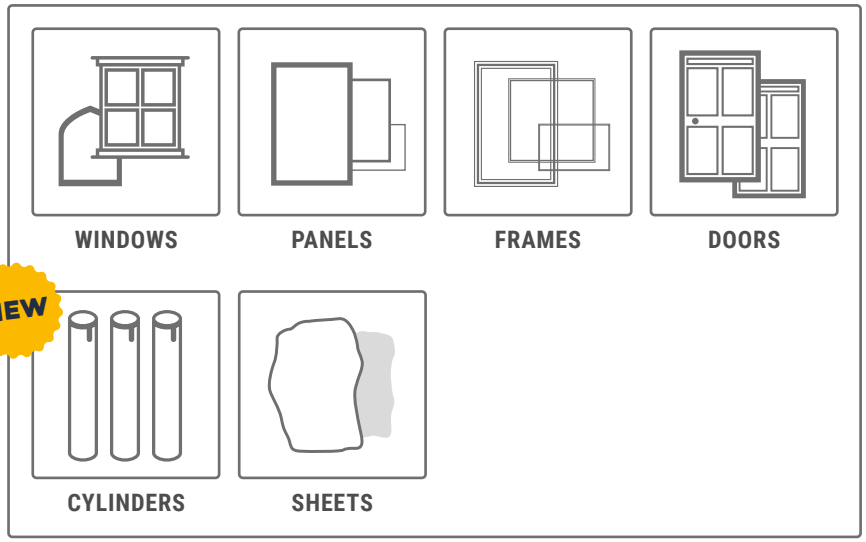
Easy prog PORTAL is a system composed of a portal equipped with photoelectric barriers and software capable of autonomously generating the painting path.
It is primarily dedicated to the recognition of windows, frames, panels, doors, as well as cylinders or similar objects. It only requires the creation of painting recipes, supply, and unloading. Specific recipes for each type of product to be painted can be created directly from the Robot Controller screen and can be recalled via barcode scanning or directly from the touchscreen.

VIDEO

DATA

SCANNER NOT compatible with ATEX environments. **Installable outside the cabin**

IT MANAGES THESE TYPES OF OBJECTS



HOW IT WORKS

01 Load the piece

02 Laser scanning

03 **The software automatically generates the painting path**

04 **Painting**

INTEGRATED ACCESSORIES

Easy prog 2D

AUTOMATIC PROGRAM GENERATION

Easy prog 2D is software capable of autonomously generating the painting path for panels, boxes, and drawers. It only requires the creation of painting recipes, supply, and unloading.

Specific recipes for each type of product to be painted can be created directly from the Robot Controller screen and can be recalled via barcode scanning or directly from the touchscreen.

The system requires the positioning of pieces according to the direction specified in the recipe.

VIDEO

Compatible with ATEX environments

LASER CENTRING OPTIONAL

Easy prog 2D can be equipped with a pair of laser pointers that can automatically compensate for any centring errors of the piece during positioning at loading.

Laser NOT compatible with ATEX environments. **Installable outside ATEX zone**

HOW IT WORKS

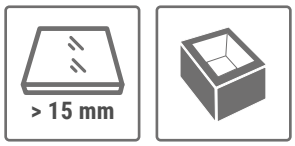
01 Load the piece

02 Select a recipe via barcode scanning

03 **The software automatically generates the painting path**

04 **Painting**

IT MANAGES THESE TYPES OF OBJECTS



PANELS **BOXES**

INTEGRATED ACCESSORIES

Easy prog 3D Scan

AUTOMATIC PROGRAM GENERATION

Compatible with ATEX environments

Easy prog 3D Scan is **a software system equipped with a 3D scanner** used on a carousel, capable of identifying the surface area of three-dimensional objects and **autonomously generating the painting path.**

Specific recipes for each type of product to be painted can be created directly from the Robot Controller screen and recalled via barcode scanning or directly from the touchscreen.

VIDEO

The system recognises the actual position of the objects, making it unnecessary to position the pieces in a specific direction

IT MANAGES THESE TYPES OF OBJECTS

PANELS CURVED PANELS BOXES

HOW IT WORKS

01 Load the piece

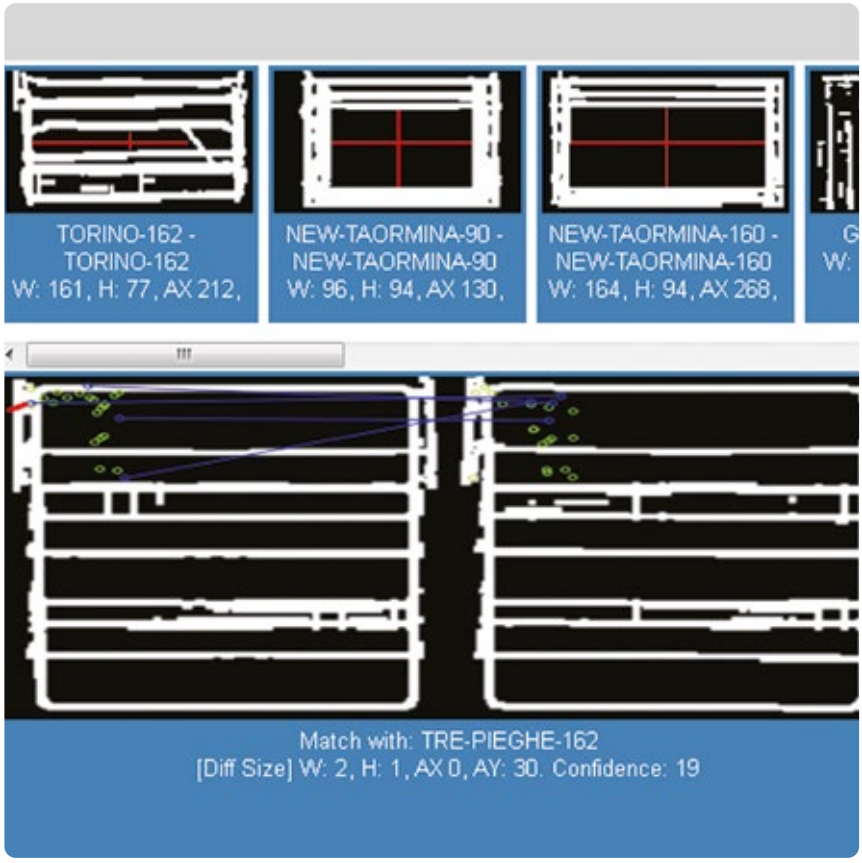
02 Laser scanning

03 **The software automatically generates the painting path**

04 **Painting**

INTEGRATED ACCESSORIES

Image match 2D



Compatible with ATEX environments

Image match 2D is a system composed of **dedicated software** and **specific vision hardware** capable of identifying the 2D surfaces of pieces and associating them with the corresponding painting program.

In the initial phase of the work, 'teaching' (painting instructions with self-learning) is carried out for each type of piece. After this, it is simply necessary to load the supply line with the pieces to be painted. Image match 2D will take care of recognising the pieces, associating them with the corresponding teachings, and painting them.

VIDEO

	2D	3D
It can distinguish objects of different thicknesses	✗	✓
It recognises the actual position and adjusts the painting path accordingly	✗	✓
It can automatically generate painting paths	✗	✗

HOW IT WORKS

01 Record the teachings for each piece

02 Scanning

03 **The software applies the corresponding teachings**

04 **Painting**

INTEGRATED ACCESSORIES

Image match 3D pro

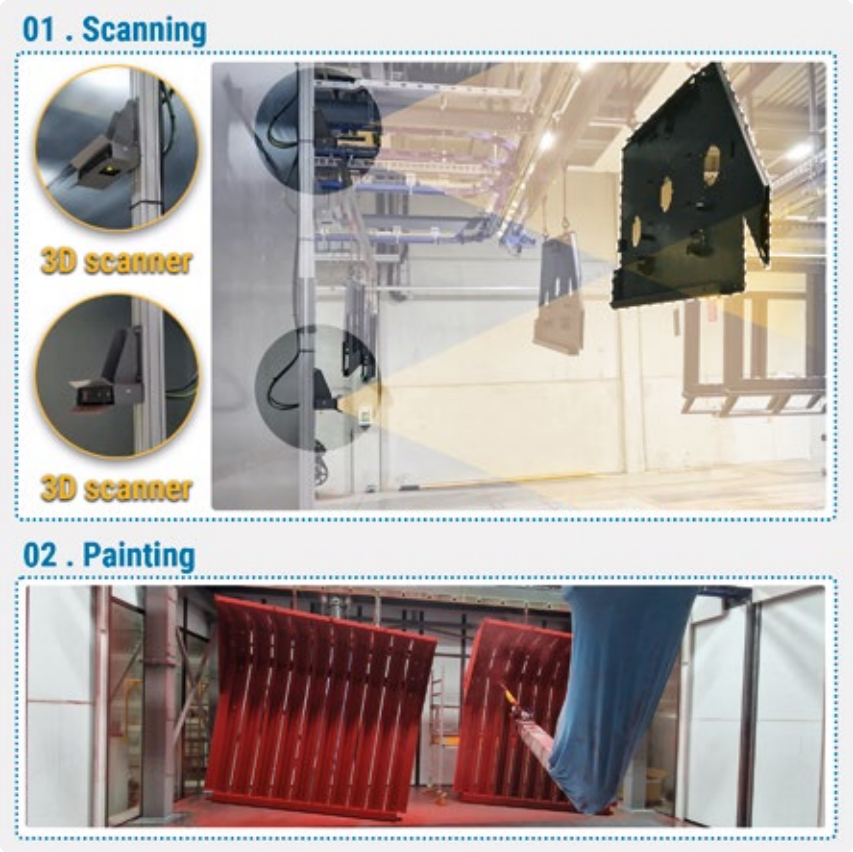


Image match 3D pro is a system composed of **management software** and **one or more 3D scanners mounted on a line**, capable of recognising the dimensions of three-dimensional objects and associating them with the corresponding painting program.

In the initial phase of work, programs are created for each type of piece. After this, it is simply necessary to load the supply line with the pieces to be painted. **Image match 3D pro** will recognise the pieces using its 3D scanners and apply the corresponding painting program.

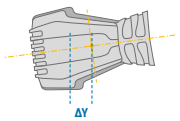
VIDEO

Compatible with ATEX environments

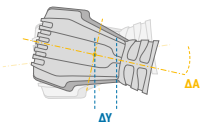
Laser NOT compatible with ATEX environments. **Installable outside ATEX zone**

Image match 3D pro recognises the inclination and position of the pieces and **automatically adjusts the painting path**.

Taught position



Detected position



	2D	3D
It can distinguish objects of different thicknesses	✗	✓
It recognises the actual position and adjusts the painting path accordingly	✗	✓
It can automatically generate painting paths	✗	✗

HOW IT WORKS

01 Record the teachings for each piece

02 Scanning

03 **The software applies the corresponding teachings**

04 **Painting**

Suction and blow-off tools

This accessory consists of a special gun capable of blowing air or suctioning water from the surface of the piece after the washing and drying tunnel.

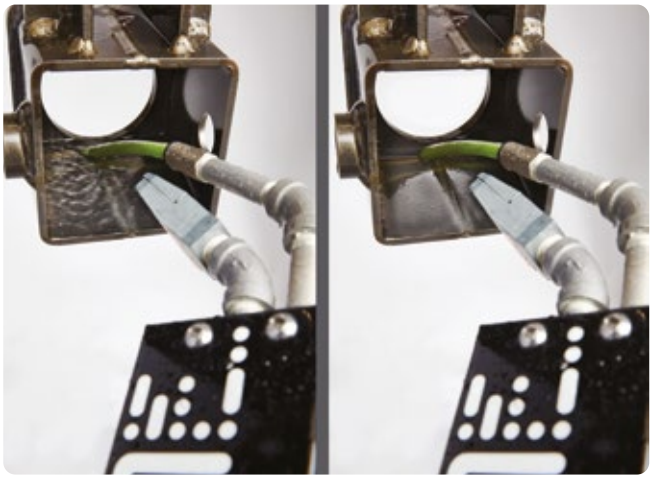
IT PREVENTS THE FORMATION OF WATER POCKETS AFTER THE PAINT APPLICATION

IT ALLOWS FOR MAINTAINING LOWER TEMPERATURES INSIDE THE OVEN.

VIDEO

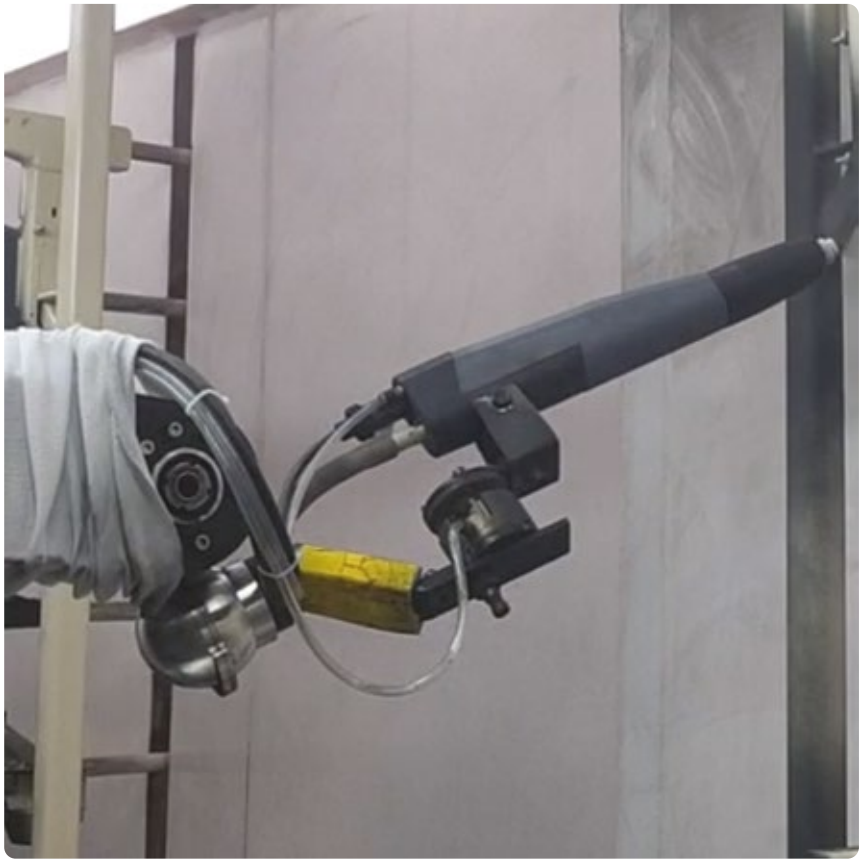
Compatible with ATEX environments

SUCTION



BLOW-OFF

Anticollision



The Lesta anti-collision system is a special pneumatic device mounted between the gun holder and the gun itself, which protects both from overloads caused by impacts.

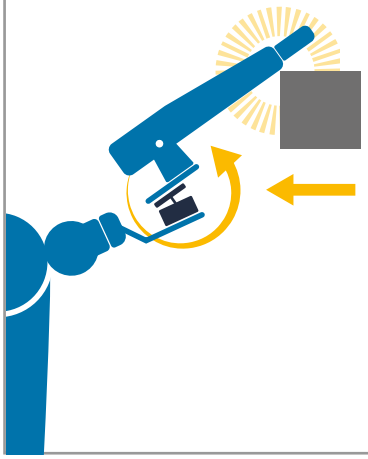
In the event of the gun colliding with objects, a mechanical overload is generated, leading to a displacement of the sensor with the release of pressurised air. The pressure drop is detected, and the system sends a signal to the control PLC, which stops the robot.

VIDEO

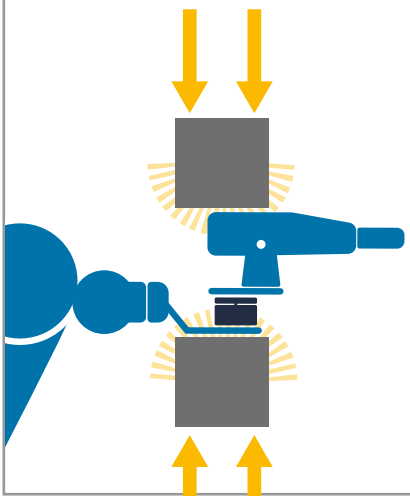
Compatible with ATEX environments

Three types of overload can occur:

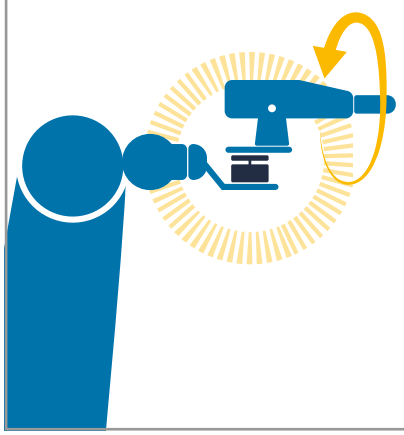
TANGENTIAL:
Occurs if the gun collides **laterally** with an obstacle



AXIAL:
Occurs if the **compressive** force in the Z direction towards the system exceeds the overload threshold



TORSIONAL:
Occurs in the case of rotation around the Z-axis when the maximum **torsional moment** is exceeded




Lesta

Lesta CLEANING STATION

Lesta CLEANING STATION is a gun cleaning station that integrates into paint booths, developed for the automatic cleaning of spray nozzles.
Lesta CLEANING STATION is entirely operated by pneumatic valves

Compatible with ATEX environments

VIDEO

DATA

Lesta CLEANING STATION **RS**

NEW

Lesta CLEANING STATION RS is the most advanced version of the gun cleaning station, equipped with a solvent recirculation system, developed for even more efficient automatic cleaning of spray nozzles

Compatible with ATEX environments

Lesta CLEANING STATION **powder**

NEW

Lesta CLEANING STATION powder is the gun cleaning station that integrates into paint booths, developed for the automatic cleaning of powder guns.
Lesta CLEANING STATION powder is entirely operated by pneumatic valves

Compatible with ATEX environments

Lesta RECIPE MANAGER

Compatible with ATEX environments

Lesta RECIPE MANAGER is a system for **managing painting parameters**, organised into recipes and easily retrievable. It interfaces with any painting system using guns or reciprocators.

The mounted gun must be equipped with a feature for this functionality.

The parameters that Lesta RECIPE MANAGER can manage are:

- **FLOW RATE**
- **FAN PATTERN**
- **CYCLE TIME**
- **ATOMISATION**
- **OPENING DELAY AND ADVANCE**

Lesta RECIPE MANAGER can be integrated with all Lesta robots without the need for a dedicated screen and software panel.

The user interface is integrated into the **Lesta LECROB Robot Manager** software.

Lesta ROTATION UNIT **RA**

Lesta ROTATION UNIT RA is a device that allows the rotation of parts arriving from an overhead conveyor.

On a step conveyor,
it can operate with two different steps on the same system.

Compatible with ATEX environments

Lesta ROTATION UNIT **RT**

Lesta ROTATION UNIT RT is a ground-based device that allows parts to be attached and **rotated perpendicularly to the floor** for painting.

On a step conveyor,
it can operate with two different steps on the same system.

It can be integrated
with carousel arms or a conveyor.

Compatible with ATEX environments

VIDEO

Lesta ROTATION UNIT **RHT**

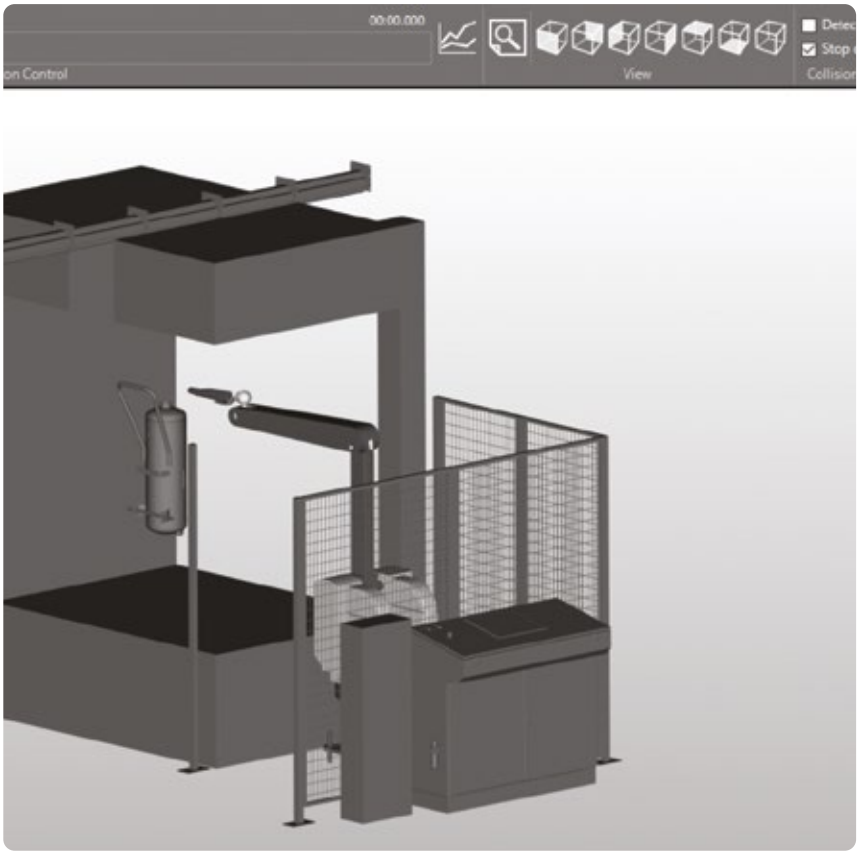
Lesta ROTATION UNIT RHT is a ground-based device that allows parts to be attached and **rotated parallel to the floor** for painting.

It can be integrated
with carousel arms or a conveyor.

Compatible with ATEX environments

VIDEO

Lesta PAINT STUDIO 3.0



Lesta PAINT STUDIO 3.0 is the software for programming Lesta robots and creating offline painting paths.

Every painting path created directly from the software or through self-learning can be modified.

It is also possible to adjust various parameters including:
- Speed
- Acceleration
- Distance from the piece
- Gun parameters
- Painting angle

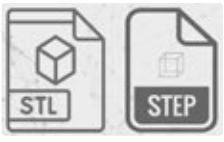
VIDEO

Methods for importing parts:

- **IMPORTING 3D MODELS OF OBJECTS AND THE BOOTH**
- **CAPTURING KEY POINTS USING THE ROBOT OR CREATING THEM IN THE SOFTWARE**
- **CONSTRUCTING GEOMETRIES WITHIN THE SOFTWARE**

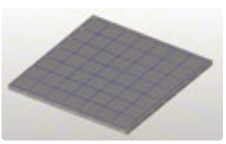
NEW

ToolPath Editor
This newly introduced feature **allows the modification of painting trajectories previously generated** through self-learning.

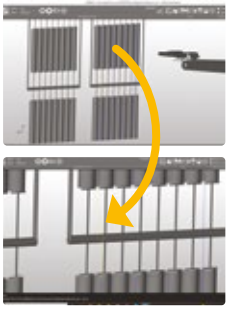


Import of 3D models in STL and STEP formats

360° view of the robot's surrounding environment even during the simulation



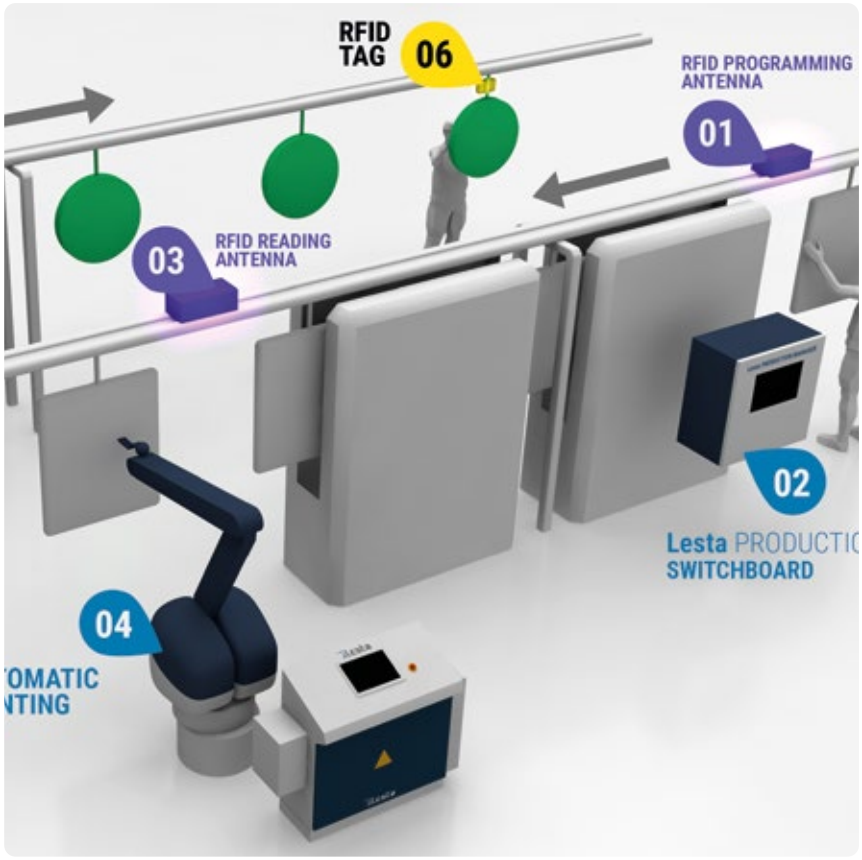
Automatic grid creation on surfaces to facilitate path generation



Possibility of automatic or manual generation of connections between different paths

Simulation of the robot's cycle, with verification of reachability limits and cycle times

Lesta PRODUCTION MANAGER TAG WEB



Compatible with ATEX environments

Lesta PRODUCTION MANAGER is a production queue management system that allows a specific programme to be associated with a specific part or batch. It consists of a management panel **(*02)**, tags **(*05 *06)**, and antennas **(*01 *03)** capable of receiving information and transferring it to the robots.

It is generally used on inline systems when there is a need to paint a large number of different models, each associated with a different painting programme.

VIDEO

It has 3 possible configurations:

Lesta PRODUCTION MANAGER: programmes are transmitted to the robots by reading barcodes with a scanner gun operated by an operator. It does not require tags and antennas.

Lesta PRODUCTION MANAGER TAG: 2 antennas and a variable number of tags are installed on the hangers. The first antenna will associate a specific painting programme with each tag. The second antenna will be positioned near the painting booth and, upon the piece's arrival, will communicate the corresponding programme to the robot.

Lesta PRODUCTION MANAGER TAG WEB: the system, already equipped with tags and antennas, can be managed remotely.

THE PROCESS CAN PROVIDE THESE PARAMETERS:

- Position of the piece in the line
- Oven temperature setting
- In the case of reciprocators, washing cycle and recipes
- Total cycle time
- Ability to catalogue all products by code, object, or macro-family

SUGGESTION SCREENS 15" 4:3 TOUCH SCREEN:

Optionally, the system can integrate screens, generally positioned at loading and unloading stations, that provide operators with important details about the tasks to be performed, images, or specific characteristics of the piece.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Lesta JOYSTICK **C2**

NEW

Lesta JOYSTICK C2 is the Lesta device for moving and controlling robots in self-learning mode, equipped with a cable. It has been renewed in terms of ergonomics, enhancing its ease of use.

Lesta JOYSTICK **W1**

Lesta JOYSTICK W1 is the wireless version of the Lesta joystick for moving and controlling robots in self-learning mode. It offers increased usability thanks to the freedom from the cable constraint.

CERTIFICATIONS

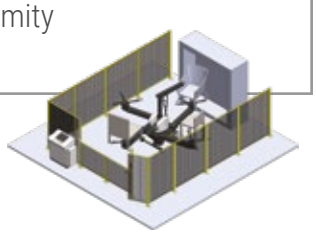
EC declaration of conformity of the machinery

according to Annex II.1.A of Directive 2006/42 / EC

Equipment, including safety devices, once assembled/installed according to the manufacturer's instructions can be used safely.

Ex. The robot, including safety barriers and commands related to the robot controller

The following documentation is provided:
- CE marking on the machine (plate)
- Use and maintenance manual
- EU declaration of conformity



CERTIFICATIONS

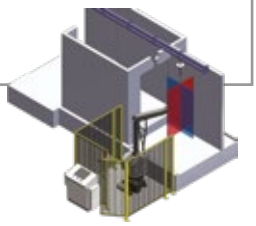
Declaration of incorporation of partly completed machinery

according to Annex II.1.B of Directive 2006/42 / EC

Equipment, in order to be used safely, must be completed or assembled with other machinery or partly completed machinery.

Ex. The robot, to be used safely, must be protected by safety barriers and by commands related to the robot controller

The following material is provided:
- Integration manual
- EU declaration of conformity

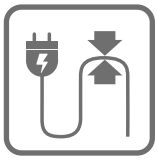


SET-UP

ATEX (EU)

If the area where the robot is to be installed is categorized as ATEX, it will be our duty to provide customers with ATEX equipment.
There are 3 characteristics that make an ATEX system:

The robot must be built in an explosion-proof version.



The robot must be delivered with all pressurized electrical parts in the machine as well as with the covers for the connections between the panel and the robot.

The pressure system is controlled by a safe PLC that stops the machine from running by cutting all voltages in cases where:
- The initial wash cycle is not completed correctly
- There is a loss of pressure in the crankcases

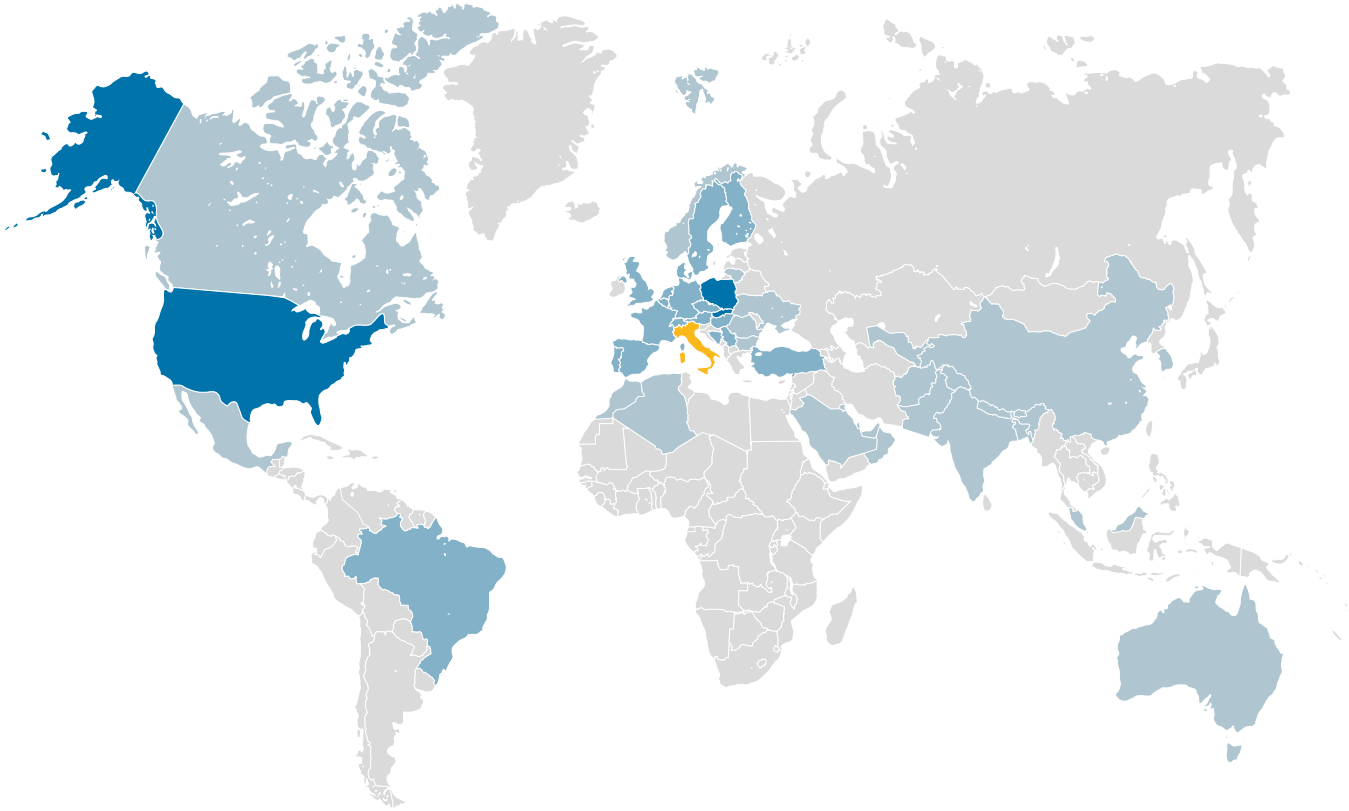
SET-UP

HAZLOC (UL)

Preparation necessary for the US market.
A dedicated pressure unit and specific components are implemented for the American market

LESTA SRL

Lesta IN THE WORLD



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www.Lestausa.com

Workshop for Central/North Europe
Jamnik, Slovakia 053-22

Made in Italy
CERTIFICATE
IT01.IT/2380.051.V

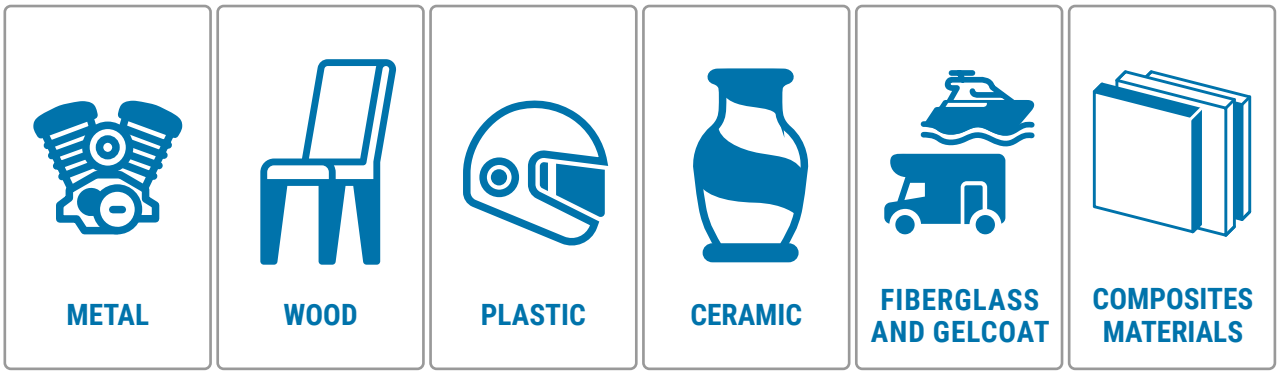
Lesta has totally European quality in both design and production.

The headquarters is spread over an industrial site of about 1600 square meters, divided into offices, laboratories, workshops, and warehouses, and **is located near Milan, an area of excellence for the industry**.

This feature, together with the strong will of the company's ownership to bring Italian excellence to the world, has allowed Lesta to obtain **100% Made In Italy certification (Registration No. R.N.P.I. IT01.IT/2380.051.V.**

Lesta®

YOUR SMART ROBOTIC FINISHING



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Lesta IS A CARBON-NEUTRAL COMPANY WITH ZERO IMPACT

From the latter months of 2023, Lesta initiated a project to offset the CO^2 emissions released into the atmosphere.

We have calculated our emissions, including those from employee vehicles, and have committed to a 100% offsetting program through the procurement of carbon credits from Treebu (treebu.io), a company based in Northern Italy. The carbon dioxide is absorbed by algae-equipped tanks in the Venetian lagoon and certified.

Thanks to this project, we can proudly assert that Lesta is a CARBON-NEUTRAL COMPANY with ZERO IMPACT.

The future of the planet we will leave to our children is determined by our choices today.

Lesta promises to make a difference.