



# AUTOJET® MODULAR SPRAY SYSTEMS

## NEXT GENERATION SPRAY CONTROL



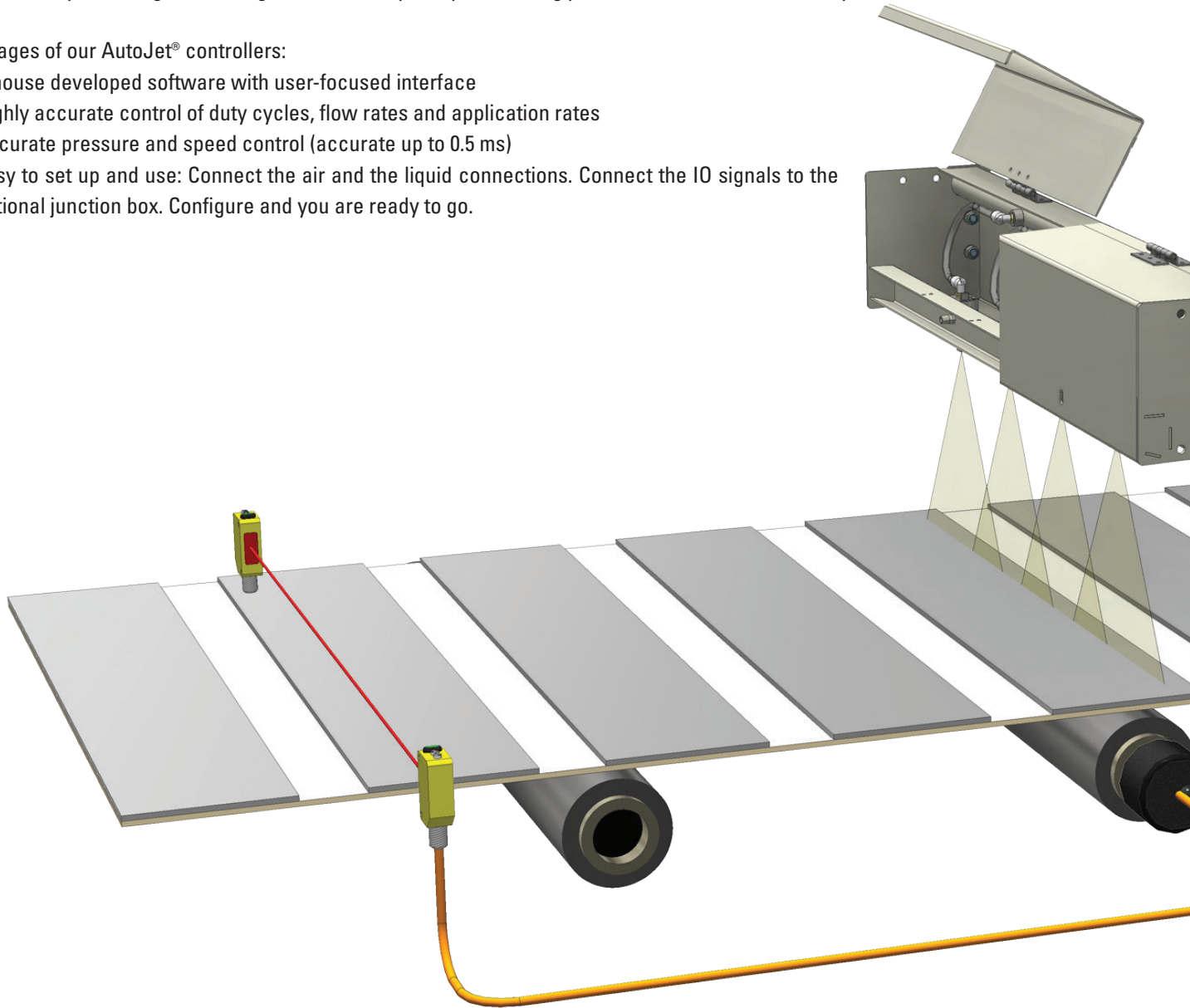
**Spraying Systems Co.®**  
Experts in Spray Technology

# OUR MODULAR SPRAY SOLUTIONS

Our Modular Spraying Systems are dedicated to controlling, monitoring, and improving spray operations at your plant. They are designed to integrate seamlessly into your existing process for maximum efficiency.

Advantages of our AutoJet® controllers:

- Inhouse developed software with user-focused interface
- Highly accurate control of duty cycles, flow rates and application rates
- Accurate pressure and speed control (accurate up to 0.5 ms)
- Easy to set up and use: Connect the air and the liquid connections. Connect the IO signals to the optional junction box. Configure and you are ready to go.



## HOW WILL THIS BENEFIT YOUR SPRAY APPLICATION?

- **Production Savings:**  
Precision spray control with SprayLogic software results in significant savings of the sprayed fluids. Ignoring spray control often uses 5 to 50% more resources.
- **Improved Product Quality:**  
Full control over your spray process prevents unexpected issues and improves the quality of your end-product.
- **Safety:**  
Minimal overspray prevents misting or slippery conditions.
- **Repeatability and Dependability:**  
Continuous closed loop control detects variations in your production process and makes adjustments to supply inputs to keep your lines running.
- **Proven Compatibility:**  
A single supplier for your spray solutions guarantees compatibility throughout the process.
- **Plant Floor Flexibility and Connectivity ??????????**

**HEADERS / MANIFOLDS**

For an optimal coverage of your products.

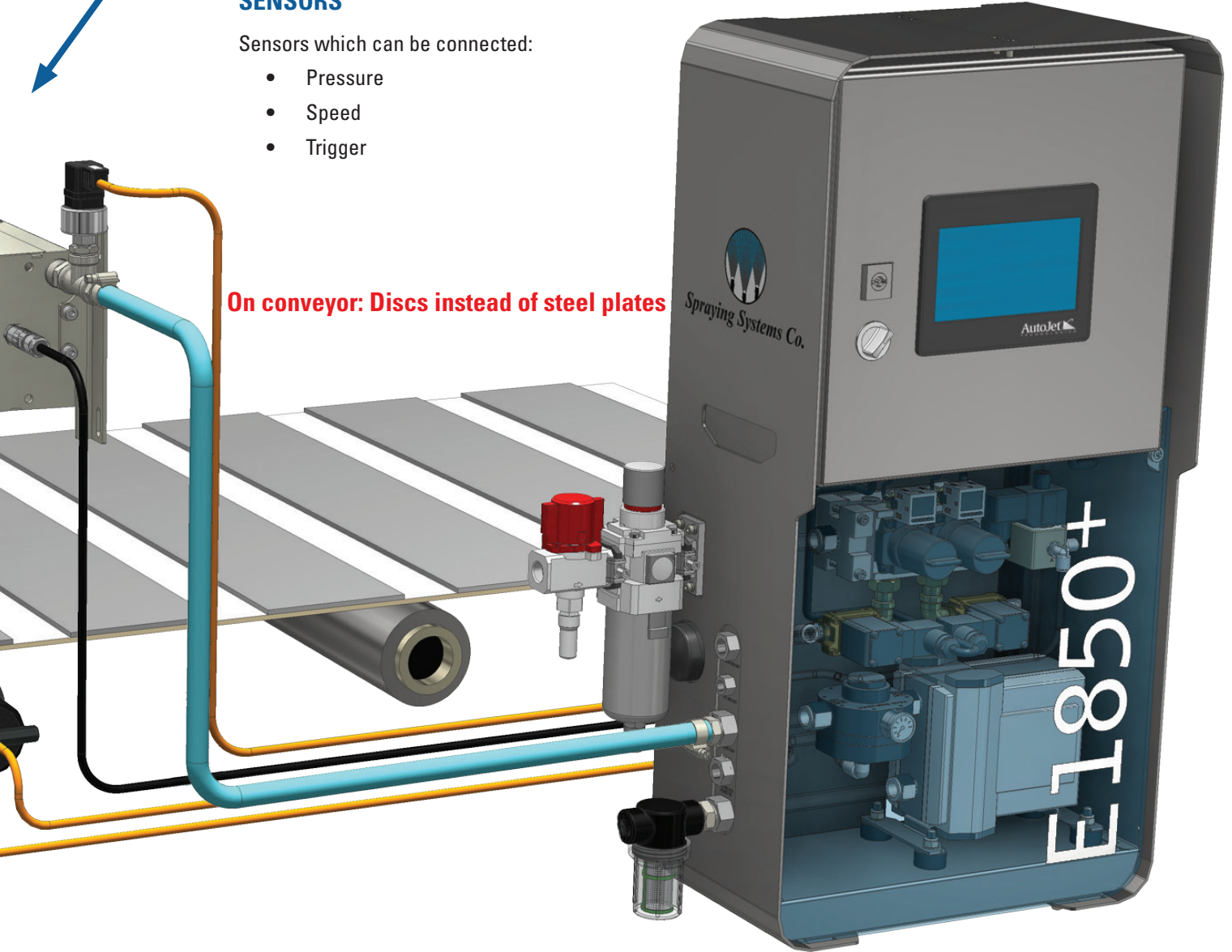
**SENSORS**

Sensors which can be connected:

- Pressure
- Speed
- Trigger

**AUTOJET® SPRAY SYSTEM**

Full control over your spray application.



**On conveyor: Discs instead of steel plates**

- **Local Expertise:**  
We have spray experts all around the world for quick support and advice in your local language.
- **Spray Research:**  
Our research services on drop size, spray pattern, distribution, and automation options.???????
- **Quality Equipment:**  
From pharmaceutical environments to steel mills, our systems meet industrial requirements and are proven reliable.



\*Available on select models



# PRECISION SPRAY CONTROL & SPRAY LAYOUT

## PRECISION SPRAY CONTROL

Electrically-actuated spray nozzles are turned on and off very quickly to control flow rate.

This gives the following advantages:

- Uniform coverage and consistent application rate.
- Reduced product scrap caused by over- or under-application of coatings.
- Reduced use of costly coatings by applying the correct volume directly on the target.
- Less need to change spray set-ups between batches because a single nozzle can produce a wide range of flow rates.
- Very low flow rates means PSC can often eliminate costly compressed air and the misting associated with air atomizing nozzles.

<https://www.spray.com/en-gb/products/spray-control-options/precision-spray-control>

NOZZLES SPRAYING  
90% OF THE TIME



NOZZLES SPRAYING  
50% OF THE TIME



NOZZLES SPRAYING  
25% OF THE TIME



## THE VALUE OF AUTOMATED PRECISION SPRAYING IN YOUR PROCESS

The pressure on industry increases constantly: cost reduction, quality improvement, optimal use of available capacity, increased safety, reduced emissions. A recent survey suggested the prime interest of customers looking at system control was the need to reduce product waste and the associated downtime caused by poor spray. These measures require extra means, such as the implementation of sophisticated process controls. However, often process automation is only considered when there is a problem, and not as a powerful strategic means for continuous improvement of processes and profitability.

One of the most remarkable studies ever published was carried out by Solomon Associates. The research was carried out in oil refineries and it aimed at establishing the main factors of their profitability. The result was astonishing: only two parameters had a statistically significant impact:

- The training level of personnel
- The implementation level of advanced controls.

Other, at first sight more obvious factors (such as location, cost structure, age of equipment, etc.) appeared much less significant. Experience over the past 25 years has revealed that the same principles and mechanisms are also valid elsewhere, and the economic advantages are often similar.

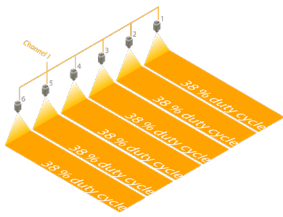
The message is clear: in all industrial sectors, it is worthwhile to consider recent technologies and systems. In other words: process automation, and mainly advanced controls, must be implemented intensively in a well-thought way in order to bring improvements on a continuous basis and to meet ever increasing requirements.

We know from experience that a spray nozzle can only perform properly if the entire spray system operates efficiently. All system components - spray nozzles, pumps, sensors and other hydraulic and pneumatic components - must be accurately controlled. The AutoJet brand was created to engineer entire systems that optimize spray performance in order to improve product quality and reduce production costs.

Where possible, purpose-designed spray controllers, such as the AutoJet Model 2300, are used in the heart of each system. Like PLC's these controllers offer a flexible, programmable interface for timing, sequencing, parameter control and system monitoring functions. In addition, these controllers have been purpose designed for spray related systems applications using the knowledge gained by the world's largest spray nozzle manufacturer. Such controllers are supplied pre-programmed with parameters and function screens specific to your application. Added to this is the capability of making on-site system improvements and upgrades through on-screen menus and SprayLogic® software.

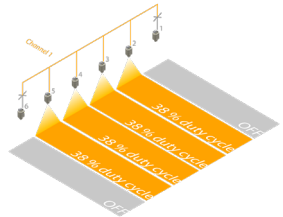


## Single Channel Spraying (Applicable for E1850+, E2150+ and E2850+)



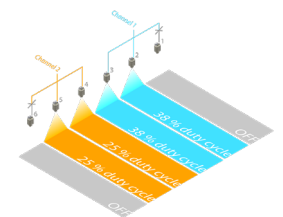
Spraying	All nozzles sprays at the same time
Duty cycle	All nozzles works at the same duty cycle
Trigger signal	Only one start / stop, or trigger signal is needed
Channels	Only one PWM control channel is needed

## Single Channel with Zoning (Applicable for E1850+, E2150+ and E2850+)



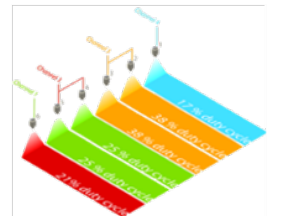
Spraying	All nozzles sprays at the same time, but some can be switched off
Duty cycle	All nozzles works at the same duty cycle
Trigger signal	Only one start / stop, or trigger signal is needed
Channels	Only one PWM control channel is needed

## Single or Dual Channel with Zoning (Applicable for E2150+ (max. two channels) and the E2850+ (max. 16 channels))



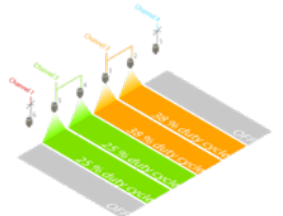
Spraying	Nozzles can spray at a different moments in time
Duty cycle	All nozzles works at the same duty cycle
Trigger signal	Only one start / stop, or trigger signal is needed
Channels	For every spray moment, a different channel is required

## Multi PWM (Applicable for E2150+ (max. two channels) and the E2850+ (max. 16 channels))



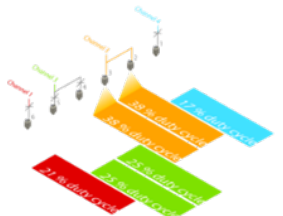
Spraying	All nozzles sprays at the same time
Duty cycle	Nozzles can work with different duty cycles
Trigger signal	Only one start / stop, or trigger signal is needed
Channels	For every Duty cycle, a different channel is required

## Single Channel with Zoning (Applicable for E2150+ (max. two channels) and the E2850+ (max. 16 channels))



Spraying	All nozzles sprays at the same time, but some can be switched off
Duty cycle	Nozzles can work with different duty cycles
Trigger signal	Only one start / stop, or trigger signal is needed
Channels	For every Duty cycle, a different channel is required

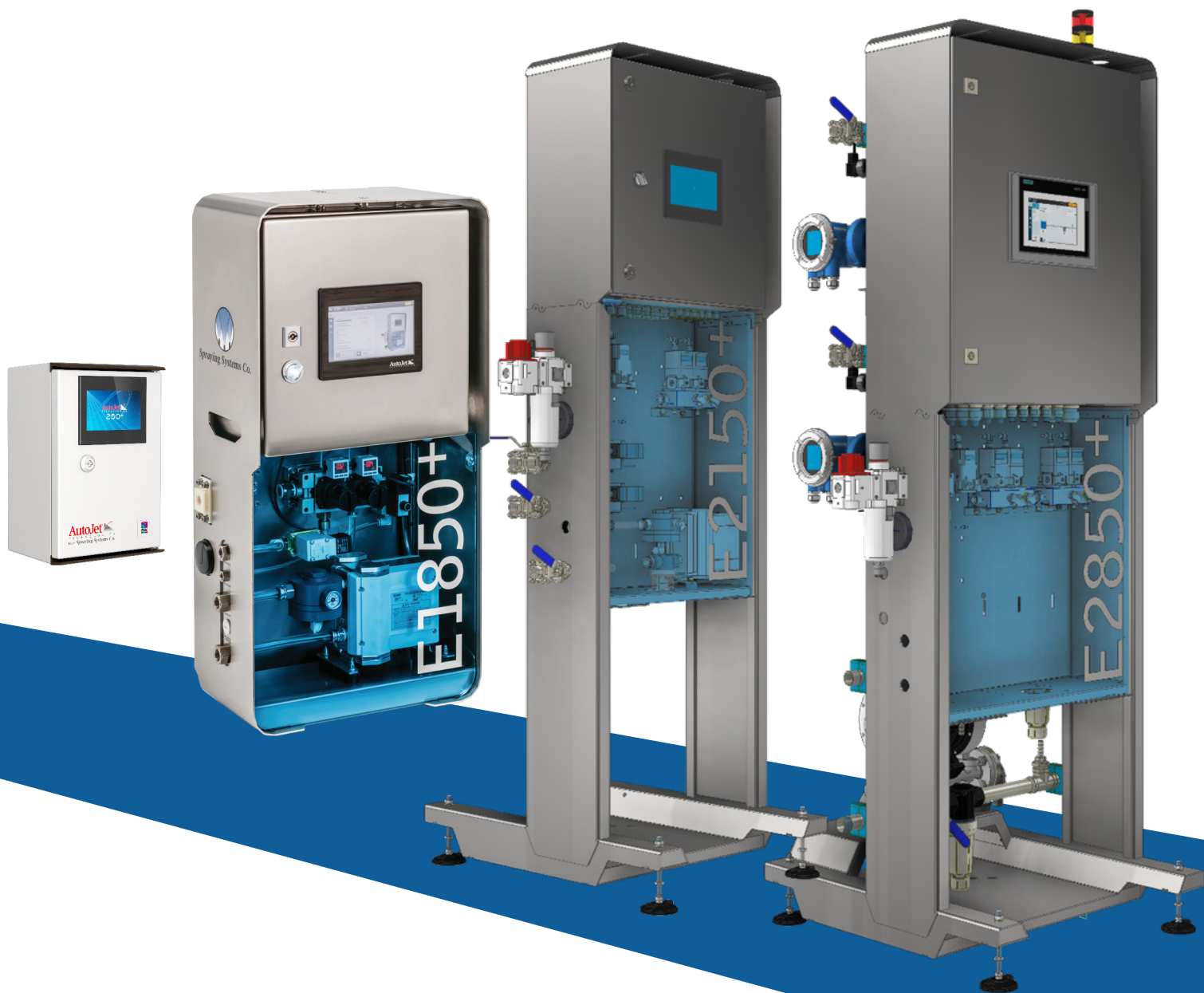
## Single or Dual Channel with Zoning (Applicable for E2150+ (max. two channels) and the E2850+ (max. 16 channels))



Spraying	Nozzles can spray in different moments in time
Duty cycle	Nozzles can work with different duty cycles
Trigger signal	Multiple start / stop, or trigger signals are needed
Channels	For every Duty cycle, a different channel is required



# NEW GENERATION SPRAY CONTROL



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# AUTOJET® PRECISION SPRAY CONTROL MODULAR SPRAY SYSTEMS NEW GENERATION SPRAY CONTROL

AutoJet® Spray Controller Features		E250+	E1850+			E2150+			E2850+
		BASIC	BASIC	STANDARD	HIGH PRECISION	BASIC	STANDARD	HIGH PRECISION	HIGH PRECISION
Spray Nozzles	Maximum number of PWM Channels	2	1	1	1	2	2	2	> 16
	Maximum number of PulsaJet nozzles (PWM, 10000AUH-03 series, 35°C Temp)	4	8	8	8	1x 16 or 2x 8	1x 16 or 2x 8	1x 16 or 2x 8	256
	PWM cycles per Minute (in cpm)		5 000	10 000	15 000	5 000	10 000	15 000	15 000
Timing	Time based spraying	✓	✓	✓	✓	✓	✓	✓	✓
	Distance based spraying			✓	✓		✓	✓	✓
	High speed application (reduce striping)				✓			✓	✓
Spray Check	Liquid Pressure Measurement + Duty Cycle Correction (Requires Liquid Pressure Sensor)			✓	✓		✓	✓	✓
	Flow Meter Supported							✓	✓
	Detection of clogged or worn nozzles							✓	✓
Flow Control	Adjust flow via HMI (liquid and atomizing air)							✓	✓
	Adjust flow via remote signal		✓	✓	✓	✓	✓	✓	✓
	Adjust flow via Profinet							✓	✓
	Closed loop flow control								✓
	Recipes				✓			✓	✓
	Pixel spray algorithm								✓
Miscellaneous	Automatic Rinsing and priming								Optional
	4G router (remote service)		Optional	Optional	Optional	Optional	Optional	Optional	✓
	Junction box: Input & Output		Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Junction box: PulsaJet® PWM		Optional	Optional	Optional	Optional	Optional	Optional	Optional
	ATEX version		Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Food version		Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Controller-only version		Optional	Optional	Optional	Optional	Optional	Optional	Optional

# AUTOJET® E250+ SPRAY CONTROLLER

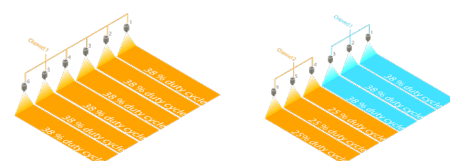
The AutoJet® E250+ Spray Controller is designed to provide basic timing control over your air- and electrically-actuated spray nozzles. It improves the performance of your automatic spray nozzles for a more efficient use of resources and a high quality end result.

In combination with the automatic nozzles the system achieves high cycling speeds. It can easily be set up and allows adjustment of the spray by setting spray times and delays with a resolution of 0.1s.

Other features include:

- 20 timing recipes
- 2 timing channels
- Save multiple objects between trigger sensor and automatic spray nozzle position
- ... and more

The AutoJet® E250+ Spray Controller can be used as a basic spray control solution for low precision applications.



Single Channel

Dual Channel



# AUTOJET® E1850+ SPRAY CONTROLLER

The AutoJet® E1850+ Spray System is designed to be a perfect fit for nearly every spray application.

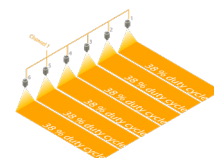
The system optimizes the performance of your automatic spray nozzles for an efficient use of resources and a high quality end result.

In combination with the PulsaJet® automatic nozzle the system achieves very high cycling speeds.

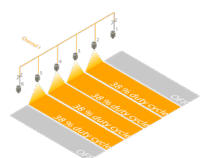
This allows adjustment of the flow rate based on changing operating conditions such as:

- Belt speed
- Pressure fluctuations
- Product change
- Recipes
- ... and much more

The AutoJet® E1850+ Spray System can be used as an autonomous spray system or can be integrated into any existing process control system.



Single Channel



Single Channel  
with Zoning



# AUTOJET® E2150+ SPRAY CONTROLLER

The AutoJet® E2150+ Spray System is designed to be a perfect fit for advanced spray applications.

The system optimizes the performance of up to 16 automatic spray nozzles for an efficient use of resources and a high quality end result.

In combination with the PulsaJet® automatic nozzle the system achieves very high cycling speeds.

This allows adjustment of the flow rate based on changing operating conditions such as:

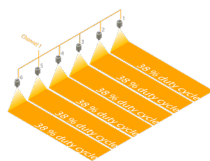
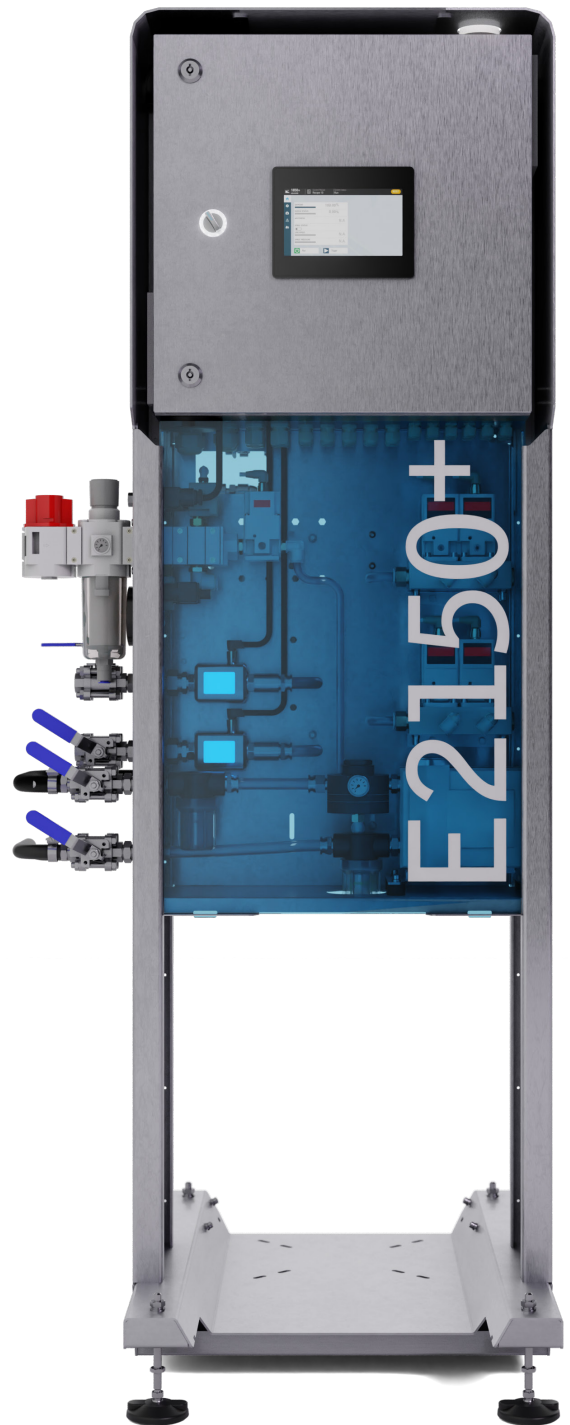
- Belt speed
- Pressure fluctuations
- Product change
- Recipes
- ... and much more

The automatic spray nozzles can be controlled via a single channel (max. 16 nozzles) or via two channels (each with max. 8 nozzles).

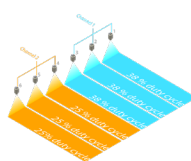
High precision editions also offer optional functionality:

- One flowmeter per channel for more accurate spraying
- Automatic liquid pressure and air pressure control
- Profinet support for full integration of your PLC

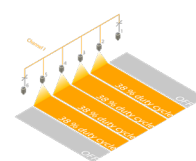
The AutoJet® E2150+ Spray System can be used as an autonomous spray system or can be integrated into any existing process control system.



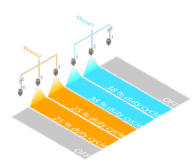
Single Channel



Dual Channel



Single Channel  
with Zoning



Dual Channel  
with Zoning

# AUTOJET® E2850+ SPRAY CONTROLLER

The AutoJet® E2850+ Spray System is designed to be a perfect fit for all spray applications, no matter how challenging.

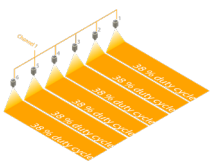
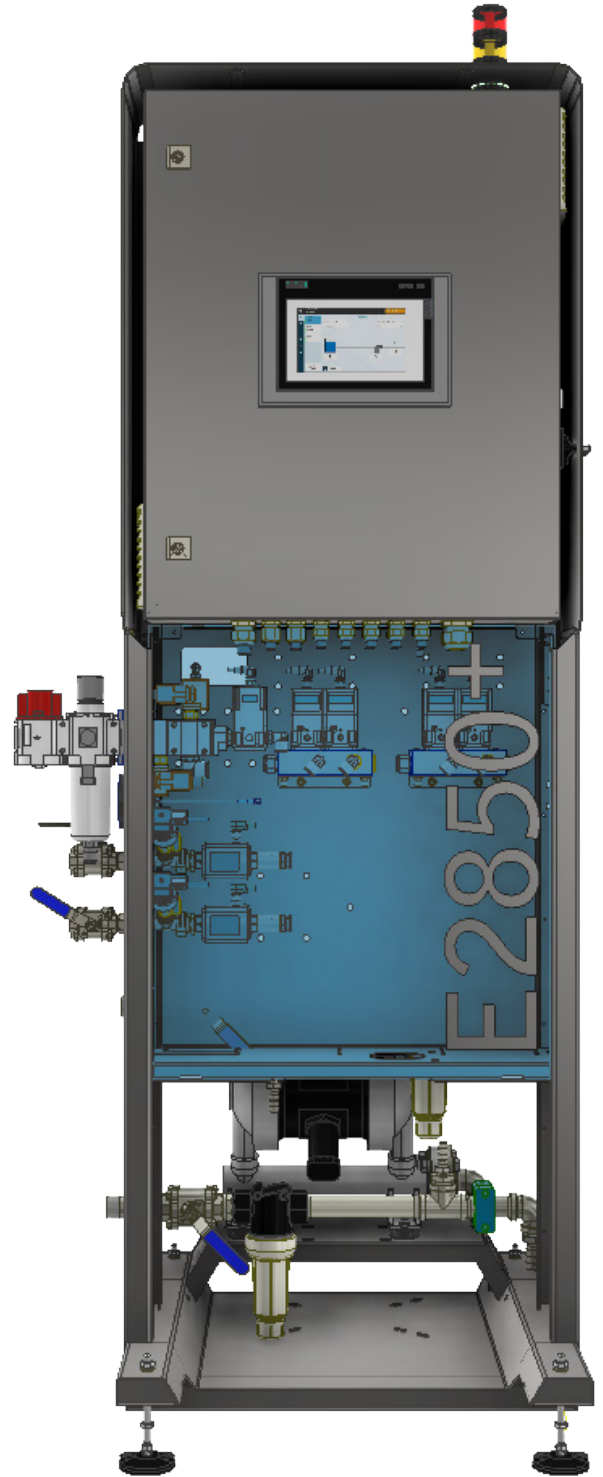
The system uses custom-built firmware and software to allow optimal flexibility in setting up custom-built spray solutions.

The system optimizes the performance of automatic spray nozzles for an efficient use of resources and a high quality end result. Due to the modular nature of the E2850+ there are no limits to the number of spray nozzles that can be controlled for your spray process.

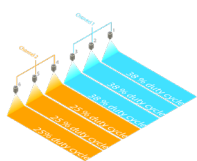
There are limitless possibilities with spray applications so the E2850+ offers a large variety of options as standard:

- To improve integration and usability the system uses a Siemens PLC System. This allows remote connection and control to the system
- The set-up of all of the parameters can be done on the touch panel.
- Tower light for an easy check on the state of the system
- The E2850+ can generate warnings and alarms to alert operators. In a worst-case scenario the system will even shut down altogether to prevent any damage to your equipment or facilities.

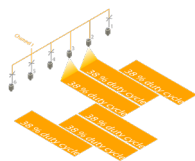
The AutoJet® E2850+ Spray System can be used as an autonomous spray system or can be integrated into any existing process control system.



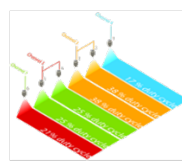
Single Channel



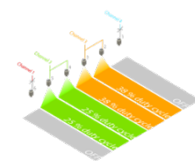
Single Channel with Zoning



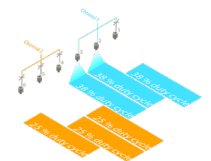
Single or Dual Channel with Zoning



Multi PWM



Single Channel with Zoning



Single or Dual Channel with Zoning



# SPRAY CONTROL OPTIONS

## 1. LIQUID SUPPLY

Pressurized liquid supply can be provided by the production environment or can be provided by one of our options.

### LIQUID SUPPLY - STANDARD

Applicable for the AutoJet® E1850+, E2150+ and E2850+ models.

### LIQUID SUPPLY - LOW

### LIQUID SUPPLY WITH PRESSURE TANK

Available sizes: 4, 6, 10, 20 and 40 L.

### LIQUID SUPPLY - BIG AOD

Liquid connections VFD pump (standard, can be switched depending on flowrate & pressure)

Applicable for the AutoJet® E2150+ and E2850+ models.

### LIQUID SUPPLY - HIGH (VFD)

Liquid connections VFD pump (standard, can be switched depending on flowrate & pressure)

Applicable for the AutoJet® E2150+ and E2850+ models.



## 2. HEADERS

### BASIC PULSAJET SPRAY HEADER

Specifications

Min. length 500 mm

Max length 6 000 mm

Available manifolds Liquid

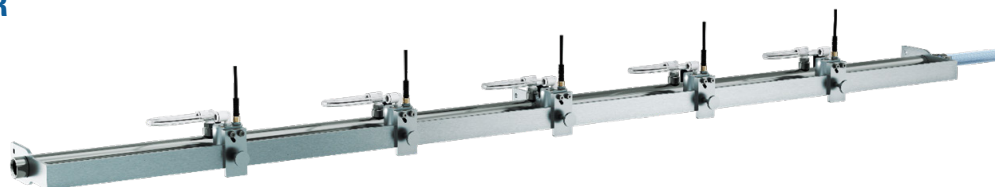
Atomizing air

Liquid circulation

Main Liquid connection 13 mm ID to 1/2" BSPT male

Material Stainless Steel 304

Options Liquid pulsation damper



### BASIC PULSAJET SPRAY HEADER

Specifications

Min. length 500 mm

Max length 6 000 mm

Available manifolds Liquid

Atomizing air or Liquid circulation

Main Liquid connection 13 mm ID to 1/2" BSPT male

Material Stainless Steel 304

Options Liquid pulsation damper





## 3. SENSORS AND CYCLES

### PRESSURE SENSOR FOR OPEN LOOP CONTROL

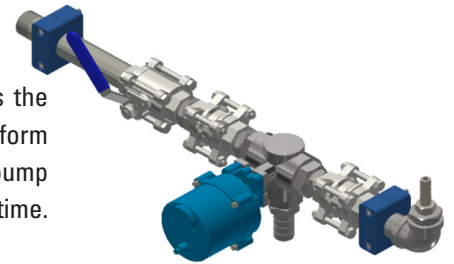
The liquid pressure to the nozzles is measured by the pressure sensor. Warnings are generated when the measured value is outside minimum/maximum limits or when a sensor error occurs.

*Flow through an orifice is dependent on applied pressure. By measuring the pressure change, it is possible to calculate a new theoretical duty cycle to compensate for flow differences caused by pressure differences. Since the actual flow is not measured (e.g. with a flow meter) and it is a calculated value, it is called an open loop control.*



### RINSING & PRIMING

The AutoJet® E2850+ Spray Controller has a built in rinsing and priming cycle. This allows the customer to automatically switch to a cleaning agent or other liquid of choice and perform necessary steps automatically such as draining the piping, draining the PulsaJets, priming pump and priming of PulsaJets. The system can also be activated automatically after a set period of time.



### CLOSED-LOOP FLOW METER

With closed-loop the liquid flow to the nozzles is measured by the electromagnetic flow sensor. Warnings are generated when the measured value is outside minimum/maximum limits and automatically compensate for changes in flow rate.

Functionality combined with E2850+:

- Automatic nozzle duty cycle calibration
- Closed loop regulation on actual flow
- System integrity, checking max deviation and clogged or worn nozzles

### SYSTEM INTEGRITY SYSTEM FLOW METER

The System integrity line is used to detect clogging of the PulsaJet spray nozzles. The flow meter can also be used in closed loop with the PulsaJet spray nozzles to make sure the required amount of liquid is sprayed. The conductivity of the sprayed liquid needs to be higher than 25  $\mu\text{S}/\text{cm}$  (electro-magnetic flow meter).

Functionality combined with E2850+:

- Automatic nozzle duty cycle calibration
- Closed loop regulation on actual flow
- System integrity, checking max deviation and clogged or worn nozzles

## 4. NOZZLES

### ELECTRICALLY-ACTIVATED SPRAY NOZZLES

The electrically-activated spray nozzles have a plunger that is activated by changing polarity in a coil. Most of these spray nozzles are suited for PWM (Pulse Width Modulation) and therefore seamlessly integrate into our sophisticated line of controls offering precise spray control.

### OVERVIEW OF SELECTED ELECTRIC PRODUCTS

PulsaJet® 03  
Up to 15'000 cycles/minute

PulsaJet® JAU / -10  
Up to 5'000 cycles/minute

Compact HF  
Up to 12'000 cycles/minute

Mini PulsaJet®  
Up to 20'000 cycles/minute

Up to 5'000 cycles/minute

For Air Atomizing Setups



AAB10000JJAU



AAB10000JAU

For Hydraulic Spray Tips



AAB10000AUH



AAB10000AUH-10



D55571



AAB10000AUH-0050



AAB250AUH



DS55573

**AIR-ACTIVATED SPRAY NOZZLES**

Air activated spray nozzles are easy to control by pressurized air. Models with single action functionality are normally closed. Activation by air pressure will open a needle or plunger, switching the pressure off will let the needle close through a spring. For a few models we can offer a double action needle, that needs air pressure for both actions, opening and closing.

**OVERVIEW OF SELECTED PNEUMATIC PRODUCTS**

1/4J setups + TPU spray tips  
Up to 180 cycles/minute

For Air Atomizing Setups



B1/4JAU

For Hydraulic Spray Tips



B1/4JAUH

Compact Design  
Up to 300 cycles/minute



Compact JAU:  
D55500-P18JAU



Compact JAUH:  
D55500-P18JAUH

Compact Design  
Up to 600 cycles/minute



E Compact JAU:  
D55573

Variable Spray Pattern  
Up to 180 cycles/minute



B1/4VMAU

# AUTOJET® E1850+ CASE STUDIES

**STEEL BAR MANUFACTURER SAVES MORE THAN €750,000 WITH NEW SPRAY COOLING SYSTEM**



**PROBLEM:** A manufacturer of high-strength steel bars needed to reduce the amount of water used in the spray cooling process. The current system used a large amount of water, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the steel bars.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray cooling system. This system uses a precision spray control system to reduce water usage and improve the quality of the steel bars. The system also includes a water recycling system to further reduce water usage.

**RESULTS:** The manufacturer saved more than €750,000 annually by reducing water usage. The system also improved the quality of the steel bars, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4032 Steel Bar Manufacturer Saves More Than € 750,000 with New Spray Cooling System**

**HARDWOOD FLOORING MANUFACTURER SAVES €40,000 PER YEAR BY SPRAYING PIGMENT WITH AUTOJET® E1850+ SYSTEM**



**PROBLEM:** A manufacturer of hardwood flooring needed to reduce the amount of pigment used in the finishing process. The current system used a large amount of pigment, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the flooring.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray pigment system. This system uses a precision spray control system to reduce pigment usage and improve the quality of the flooring. The system also includes a pigment recycling system to further reduce pigment usage.

**RESULTS:** The manufacturer saved €40,000 annually by reducing pigment usage. The system also improved the quality of the flooring, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4033 Hardwood Flooring Manufacturer Saves € 40,000 Per Year by Spraying Pigment**

**PLASTIC CUP MANUFACTURER SAVES €18,000 ANNUALLY WITH AUTOMATED ANTI-STATIC SPRAY SYSTEM**



**PROBLEM:** A manufacturer of plastic cups needed to reduce the amount of anti-static agent used in the finishing process. The current system used a large amount of anti-static agent, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the cups.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ anti-static spray system. This system uses a precision spray control system to reduce anti-static agent usage and improve the quality of the cups. The system also includes an anti-static agent recycling system to further reduce anti-static agent usage.

**RESULTS:** The manufacturer saved €18,000 annually by reducing anti-static agent usage. The system also improved the quality of the cups, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4034 Plastic Cup Manufacturer Saves € 18,000 Annually with Automated Anti-Static Spray System**

**ELASTOMER MANUFACTURER REDUCES RELEASE AGENT USAGE AND SAVES €50,000 ANNUALLY THANKS TO NEW AUTOMATED SPRAY SYSTEM**



**PROBLEM:** A manufacturer of elastomer pellets needed to reduce the amount of release agent used in the finishing process. The current system used a large amount of release agent, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the pellets.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray system. This system uses a precision spray control system to reduce release agent usage and improve the quality of the pellets. The system also includes a release agent recycling system to further reduce release agent usage.

**RESULTS:** The manufacturer saved €50,000 annually by reducing release agent usage. The system also improved the quality of the pellets, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4035 Automated Spray System Helps Elastomer Manufacturer Reduce Release Agent Usage and Save € 50,000**

**WOOD PELLET MANUFACTURER SAVES MORE THAN €10,000 PER YEAR BY SPRAYING OIL WITH AUTOMATED SPRAY SYSTEM**



**PROBLEM:** A manufacturer of wood pellets needed to reduce the amount of oil used in the finishing process. The current system used a large amount of oil, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the pellets.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray oil system. This system uses a precision spray control system to reduce oil usage and improve the quality of the pellets. The system also includes an oil recycling system to further reduce oil usage.

**RESULTS:** The manufacturer saved more than €10,000 annually by reducing oil usage. The system also improved the quality of the pellets, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4036 Wood Pellet Manufacturer Saves More than € 10,000 Annually Spraying Oil with Automated Spray System**

**TISSUE MANUFACTURER SAVES €40,000 AND IMPROVES SUSTAINABILITY**



**PROBLEM:** A manufacturer of tissue rolls needed to reduce the amount of release agent used in the finishing process. The current system used a large amount of release agent, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the tissue rolls.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray system. This system uses a precision spray control system to reduce release agent usage and improve the quality of the tissue rolls. The system also includes a release agent recycling system to further reduce release agent usage.

**RESULTS:** The manufacturer saved €40,000 annually by reducing release agent usage. The system also improved the quality of the tissue rolls, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4037 Tissue Manufacturer Saves € 40,000 and Improves Sustainability**

**OSB MANUFACTURER SAVES €25,000 PER YEAR BY RECYCLING 2 MILLION LITERS OF WASTEWATER**



**PROBLEM:** A manufacturer of OSB panels needed to reduce the amount of release agent used in the finishing process. The current system used a large amount of release agent, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the OSB panels.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray system. This system uses a precision spray control system to reduce release agent usage and improve the quality of the OSB panels. The system also includes a release agent recycling system to further reduce release agent usage.

**RESULTS:** The manufacturer saved €25,000 per year by recycling 2 million liters of wastewater. The system also improved the quality of the OSB panels, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4038 OSB Manufacturer Saves € 25,000 per Year by Recycling 2 Million Liters of Wastewater**

**MODULAR RETAINING WALL MANUFACTURER CUTS RELEASE AGENT USE BY 75% TO SAVE MORE THAN €60,000 PER YEAR**



**PROBLEM:** A manufacturer of modular retaining walls needed to reduce the amount of release agent used in the finishing process. The current system used a large amount of release agent, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the retaining walls.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray system. This system uses a precision spray control system to reduce release agent usage and improve the quality of the retaining walls. The system also includes a release agent recycling system to further reduce release agent usage.

**RESULTS:** The manufacturer cut release agent use by 75% to save more than €60,000 per year. The system also improved the quality of the retaining walls, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4039 Modular Retaining Wall Manufacturer Cuts Release Agent Use by 75% to Save More than € 60,000 per Year**

**CABLE MANUFACTURER HALVES ITS CHEMICAL CONSUMPTION WITH AUTOMATED SPRAY SYSTEM**



**PROBLEM:** A manufacturer of cables needed to reduce the amount of chemical used in the finishing process. The current system used a large amount of chemical, which was costly and environmentally unfriendly. The manufacturer also needed to improve the quality of the cables.

**SOLUTION:** The manufacturer installed the AUTOJET E1850+ spray system. This system uses a precision spray control system to reduce chemical usage and improve the quality of the cables. The system also includes a chemical recycling system to further reduce chemical usage.

**RESULTS:** The manufacturer halved its chemical consumption with the automated spray system. The system also improved the quality of the cables, resulting in fewer rejections and scrap.

**SUSTAINABILITY APPLIED:** Water Recycling, Energy Efficiency, Waste Reduction

**CS E4040 Cable Manufacturer Halves its Chemical Consumption with Automated Spray System**



# NEED ADVICE? PICTURE OF SPRAY EXPERTS

**FIBER-CEMENT SIDING MANUFACTURER REDUCES COATING CONSUMPTION, SAVES € 80,000 ANNUALLY WITH AUTOMATED SPRAY SYSTEM**

**PROBLEM:** A global manufacturer wanted to spray a 400m long fiber-cement siding system, which had a complex geometry and required a high level of precision. The company needed a solution that would reduce coating consumption and save resources.

**SOLUTION:** The company installed an automated spray system, which allowed them to spray the siding with a high level of precision and control. This resulted in a 10% reduction in coating consumption and a saving of € 80,000 annually.



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Experts in Spray Technology

SUSTAINABILITY APPLIED.

**CS E4041** Fiber-Cement Siding Manufacturer Reduces Coating Consumption, Saves € 80,000 Annually

**AUTO MANUFACTURER REDUCES DEFECTS AND SAVES € 200,000 WITH AUTOMATED SPRAY SYSTEM**

**PROBLEM:** A manufacturer of 400m long auto parts was experiencing a high level of defects in their automated spray system. The company needed a solution that would reduce defects and save resources.

**SOLUTION:** The company installed an automated spray system, which allowed them to spray the auto parts with a high level of precision and control. This resulted in a 10% reduction in defects and a saving of € 200,000 annually.



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SUSTAINABILITY APPLIED.

**CS E4042** Auto Manufacturer Reduces Defects and Saves € 300,000 with Automated Spray System

**STRUCTURAL INSULATED PANEL (SIP) MANUFACTURER INCREASES PRODUCT QUALITY AND SAVES RESOURCES**

**PROBLEM:** A manufacturer of structural insulated panels (SIP) was experiencing a high level of defects in their automated spray system. The company needed a solution that would increase product quality and save resources.

**SOLUTION:** The company installed an automated spray system, which allowed them to spray the SIP panels with a high level of precision and control. This resulted in a 10% increase in product quality and a saving of resources.



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SUSTAINABILITY APPLIED.

**CS E4043** Structural Insulated Panel (SIP) Manufacturer Increases Product Quality and Saves Resources

**STEEL BAR MANUFACTURER ELIMINATES OIL OVERSPRAY, AND SAVES € 17,500 PER YEAR**

**PROBLEM:** A steel bar manufacturer was experiencing a high level of oil overspray in their automated spray system. The company needed a solution that would eliminate oil overspray and save resources.

**SOLUTION:** The company installed an automated spray system, which allowed them to spray the steel bars with a high level of precision and control. This resulted in a 10% reduction in oil overspray and a saving of € 17,500 per year.



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SUSTAINABILITY APPLIED.

**CS E4044** Steel Bar Manufacturer Eliminates Oil Overspray, and Saves € 17,500 per Year

**CEMENT BOARD MANUFACTURER REDUCES CHEMICAL USE AND SAVES € 27,000 PER YEAR**

**PROBLEM:** A cement board manufacturer was experiencing a high level of chemical use in their automated spray system. The company needed a solution that would reduce chemical use and save resources.

**SOLUTION:** The company installed an automated spray system, which allowed them to spray the cement boards with a high level of precision and control. This resulted in a 10% reduction in chemical use and a saving of € 27,000 per year.



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SUSTAINABILITY APPLIED.

**CS E4045** Cement Board Manufacturer Reduces Chemical Use and Saves € 27,000 per Year

**AUTOMATED SPRAY SYSTEM SAVES BUILDING PRODUCTS MANUFACTURER MORE THAN € 35,000 PER YEAR**

**PROBLEM:** A building products manufacturer was experiencing a high level of waste in their automated spray system. The company needed a solution that would save resources.

**SOLUTION:** The company installed an automated spray system, which allowed them to spray the building products with a high level of precision and control. This resulted in a 10% reduction in waste and a saving of more than € 35,000 per year.



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Experts in Spray Technology

SUSTAINABILITY APPLIED.

**CS E4046** Automated Spray System Saves Building Products Manufacturer More Than € 35,000 per Year

**AUTOMATED SPRAY LUBRICATION SYSTEM SAVES FOAM PARTS PRODUCER MORE THAN € 30,000 PER YEAR**

**PROBLEM:** A foam parts producer was experiencing a high level of waste in their automated spray system. The company needed a solution that would save resources.

**SOLUTION:** The company installed an automated spray lubrication system, which allowed them to spray the foam parts with a high level of precision and control. This resulted in a 10% reduction in waste and a saving of more than € 30,000 per year.



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SUSTAINABILITY APPLIED.

**CS E4047** Automated Spray Lubrication System Saves Foam Parts Producer More Than € 30,000 per Year

**CAN MANUFACTURER INCREASES YEARLY REVENUE BY € 4 MILLION THANKS TO NEW SPRAY SYSTEM**

**PROBLEM:** A can manufacturer was experiencing a high level of defects in their automated spray system. The company needed a solution that would increase yearly revenue.

**SOLUTION:** The company installed a new spray system, which allowed them to spray the cans with a high level of precision and control. This resulted in a 10% increase in yearly revenue.



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Experts in Spray Technology

SUSTAINABILITY APPLIED.

**CS E4048** Can Manufacturer Increases Yearly Revenue by € 4 Million Thanks to New Spray System

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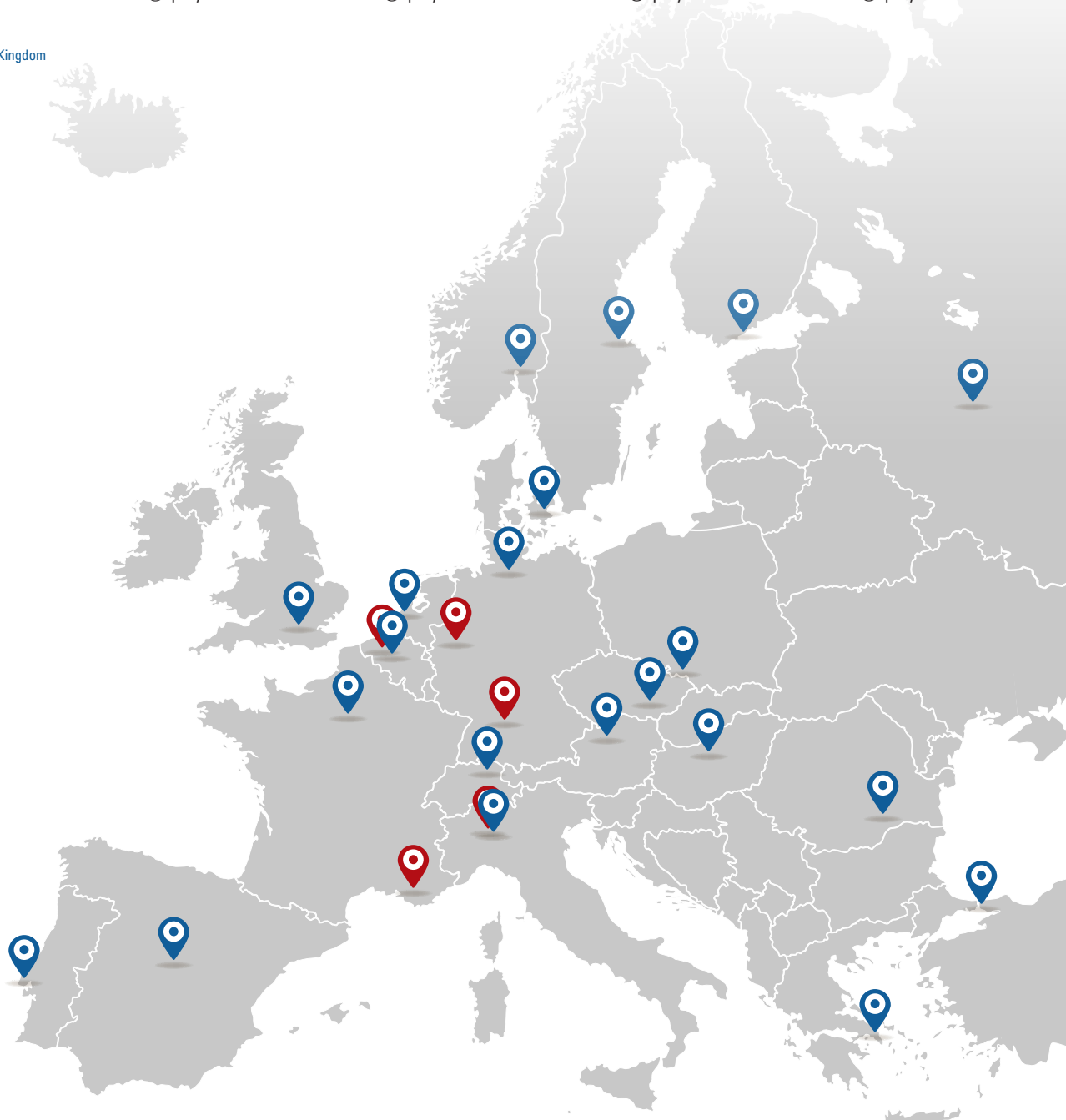
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