



Catalogue v2.0

"Powder coating solutions for the highest Productivity since 1960"



www.sames-kremlin.com







SAMES KREMLIN - HEADQUARTER - 13 CHEMIN DE MALACHER - 38243 MEYLAN ≈ 236 EMPLOYEES / 15 000 M²



SAMES KREMLIN - 150, AVENUE DE STALINGRAD - 93240 STAINS $\approx 220~\text{EMPLOYEES}$ / 20 000 M²

Editor's note

To help you increase your competitiveness, **SAMES KREMLIN** dedicates itself daily to excellence in terms of innovation and reliability.

We are constantly improving our performances as well as quality to meet your specific needs.

We also help you define the equipment allowing your installation to comply with V.O.C. directives and industry standards.

We enable you to benefit from reliable technologies while ensuring you a swift return on investment.

In this catalog, you will find the equipment that will enable you to reach the paint application results you are targeting and the finish quality you desire.

Our mission is to provide you with the best equipment to meet your needs and requirements.

The entire team at **SAMES KREMLIN** is at your disposal to answer your questions.

Enjoy your reading.



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Powder Systems

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Control Solutions & Peripherals



SYMBOLS



Corona application

Rotating bell application





Powder Know-how

A strong identity at your disposal

In over 70 years of experiences, **SAMES KREMLIN** has built up a unique know-how in many different fields of activity.

Numerous installations such as car manufacturing, tier 1&2 and many other industrials markets are equipped with our electrostatic solutions.

This know-how is for you the guarantee that we are experienced team members, able to understand your needs and to speak the same language. It is also the guarantee for you to work with technicians that are able to lead you towards the best technical alternative and to offer you a reliable solution. You surely can rely on **SAMES KREMLIN** to enable you to reach your efficiency goals in a sustainable manner.

Improving your competitiveness and making your investments cost-effective is our commitment.

Our strength: a real and strong collaboration with our worldwide customers, to answer various and complex requirements.

SAMES KREMLIN is the only world-class powder electrostatic equipment manufacturer offering the whole range of solutions such as:

📀 Premium Quality

📀 Competitivity

High Transfer Efficiency, Productivity increase, Reduced maintenance operations Reliability, TCO⁽¹⁾ reduced

Any Process

Manual solutions

Automatic solutions

Fast color changing solutions

- Robotic solutions
- Engineering customized solution

(1): total co

Powder Know-how

Improve your business

Leader in finishing solutions to protect and embellish materials, **SAMES KREMLIN** is your key partner to enhance your productivity, combined with an excellent finish quality.

	<image/>	<image/>
THE MOST ADVANCED	INNOVATIVE	ENGAGED
TECHNOLOGIES	TURN-KEY OFFER	BEYOND YOUR NEEDS
R & D = 48 people (20% of the workforce)	Key technical areas controlled	Analyze and anticipate your needs
Over 60 active patents Electrostatic expertise Finishing Science Powder coating inventor	 Finishing, Robotics, Mechanical, Automation, Fluid, Electrical, Electronics Engineering = 200 people worldwide	A global network of experts, close to you Support you • Culture of industrial and technical cooperation • Services during the life of your installation Our commitments Customer satisfaction through clear process

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Fools & Accessories

JURACOR



Customer satisfaction

SAMES KREMLIN HAS WORKED OUT A COMPLETE OFFER OF SERVICES, ADAPTED TO ALL YOUR NEEDS:

Advice, repair, servicing, adjustment or intervention by a qualified technician. Whatever your request may be, **SAMES KREMLIN** Customer satisfaction department, is at your disposal to answer your needs within the shortest time.

> HOTLINE



SAMES KREMLIN has a quality hotline which takes care of our customer satisfaction.

Please fill free to contact us. Our customer service team would like to provide an answer under 48 hours.

+33 (0)1 49 40 25 28

Monday to Friday: 8:30 - 12:00 am & 13:00 - 17:30 pm

> AUDIT

In order to make the most from yourinstallation, paint or powder, advice and expertise of specialists are essential. Made of practical, experienced members, **SAMES KREMLIN** customer support team will carry out a diagnostic of your installation and will provide you with a worthy technical assistance for the improvement or retrofit of your paint line.

> REPAIR



A regular, and carried out professionally, maintenance or a retrofit of your equipment, is the best way to guaranty the correct running of your equipment. To this end, do not hesitate to contact one of our technicians:

• to get technical advice or technical assistance by phone

 to get one of your product repaired or controlled

to carry out a retrofit





Original spare parts guaranty the correct running of your equipment. We are here to deal with all your orders of spare parts throughout the world. Thus, our aim is to rapidly supply you and at the best price, with the wished part in order to guaranty an optimum and prolonged running of your paint or powder application equipment.

> TRAINING



SAMES KREMLIN is registered as a training centre by the French Ministry of Employment. Training sessions that allow you learning the requisite knowledge to the use and the maintenance of your equipment are organised throughout the year. A catalogue can be obtained upon request. You will be then able to choose among the proposed selection of training courses, the type of training that meets your needs or production aims. These training sessions can be organised within your premises or in our training centre located in our headquarters in Meylan - FRANCE.



Powder Know-how

Quality assurance

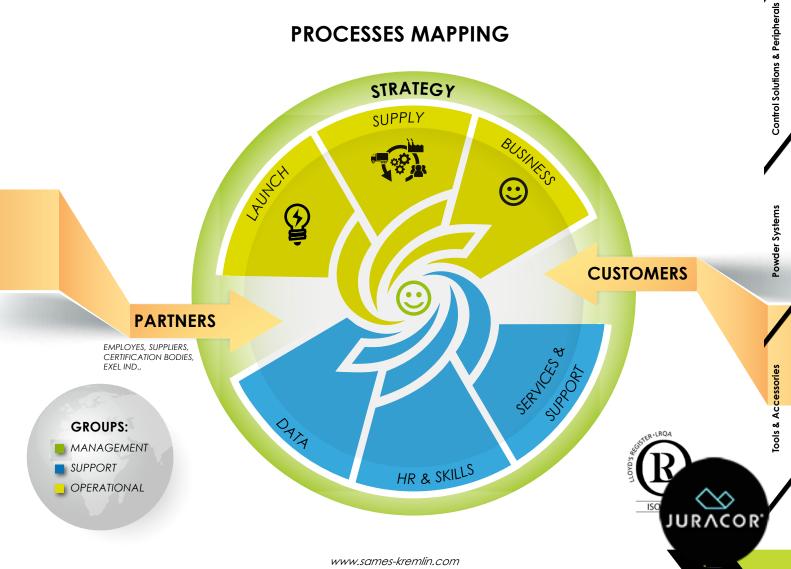
In conformity with the ISO9001 standard - issue 2008, the requisite procedures and registrations are mastered. The seriousness with which SAMES KREMLIN's quality policy is dealt ensures you an optimum quality at each stage of the production and of the assembly of the components.

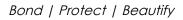
Our products are in the scope of the following European directives:

- 2014/34/UE **Explosive Atmospheres**
- 2006/42/CE Machinery
- 2014/35/UE Low Voltage
- Electromagnetic Compatibility • 2014/30/UE
- 2011/65/UE RoHS Restriction of Hazardous Substances in electrical and electronic equipment
- 2012/19/UE WEEE Waste of Electrical and Electronic Equipment
- 1907/2006/CE REACH Registration, Evaluation, Authorization and Restriction of Chemicals.

A process mapping allows organizing all the stages while being very attentive to the various environments (customers, competition...), to the audits (inner and outer) and to the indicators linked to the defined aims.









Powder Know-how



Powder solutions

Whichever your process may be, there is always a well proven painting solution to carry out your application:

- Manual
- Automatic
- Robotic
- Quick color change

In close collaboration with our technical teams, a solution will be worked out to meet your requirements; our range allowing equipping any type of facility.

Research & Innovation

SAMES KREMLIN' main activity is to increase the productivity of its customers by designing and manufacturing innovative electrostatic systems. Launching new products into the market is the core of our organization. Our know-how, our large investment in Research & Development as well as our reliability-proven equipment allow proposing our customers integrate solutions.

E

SAMES KREMLIN has been integrating its own technology for decades all around the world. Your efficiency is leading our solutions:

Improve excellent finishing quality:

- provides uniform film build
- provides repeatable even coating thickness

Increase transfer efficiency:

- saves on powder
- reduces booth residues

Provide superior wrap:

- reduces application time
- reduces the number of applicators required

Reduce the operating costs of coating and increase production capacity



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POWDER PAINT SOLUTIONS RESEARCH & INNOVATION



CUSTOMER SERVICE

Engineering partnership

The **SAMES KREMLIN** engineering teams share with our customers the fruit of their experience and bring all of their expertise and availability. Each of our customers is guaranteed technical and commercial tracking in the running and development of their coating process, our staff are always available to provide rapid assistance and advice.

SAMES KREMLIN commits to the quality and reliability of its solutions and services, such as the improvement of:

• The performance (regularity and transfer rates of the equipment, output when changing colours, etc...)

• Compliance with safety and environmental rules

• Productivity (grouped colour batches, unhooking of hangers, etc...)

Reduction of costs

• Automation of functions (detection of size, break between parts, automatic cleaning of applicators, proportional flow control, use of spray gun recipes dedicated to families of products, etc...)

- Ergonomics of work stations
- Tracking and management of m JURACOR

Powder Systems

Control Solutions & Peripherals





16 Locations





MEXICO

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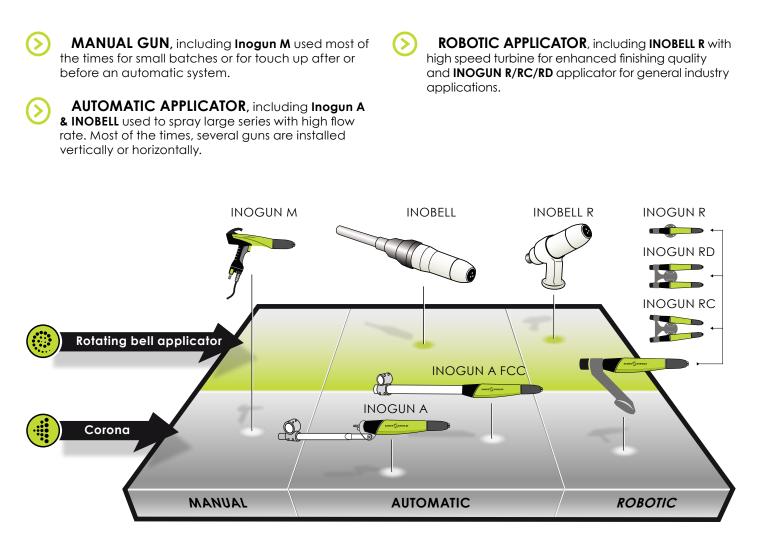
JURA

COR



Range of powder equipment

THE **SAMES KREMLIN** POWDER ELECTROSTATIC RANGE IS MADE OF THREE TYPES OF APPLICATORS:



WHEN USING CORONA OR BELL ?

🔅 Corona applicator

Very versatile, the fan spray favors penetration in recesses and folds. Target distance may be a factor.

- Good penetration and wrap around
- Complex shapes
- Used for touch up
- Automatic or manual
- High Transfer Efficiency



Rotating bell applicator

Designed for coating large flat surfaces, the bell can spray all kinds of powders with a film build accuracy of +/- 5 microns.

- Wraparound effect
- Wide pattern (up to 450mm)
- High flow (>200g/min up to 500g/min)
- Homogeneous thickness (+/-10%)
- Automatic or robotic
- High transfer efficiency



Electrostatic Powder Equipment

Range of the powder equipment

Manual	equipmen	lt range
--------	----------	----------

		Contro	l module		Powder feed system				
	Inobox VT Inobox H Inobox NF Inocontroller		CS 130	CSV 217 (HF)	CSV 230 (NDT)	Inocenter			
	-	-	✓ (2)	-	\checkmark	-	-	-	
Inogun M	-	-	(2)	-	-	-	\checkmark	-	
	-	-	-	🗸 (3)	\checkmark	-	-	-	
	-	-	-	🗸 (3)	-	-	-	\checkmark	
Inocart VT	\checkmark	-	-	-	(4)	-	-	-	
Inocart H	-	\checkmark	-	-	(5)	-	-	-	
Inocart HF	-	-	\checkmark	-	-	\checkmark	-	-	
Inocart NDT	-	-	\checkmark	-	-	-	\checkmark	-	

Automatic applicator range

	Control module		Support			Powder feed system				
	Inocontroller		Arm	Tube			CSV 217	CSV 230		
	or Inobox NF	TCR	Ø 30 mm	Ø 40 mm	Ø 50 mm	CSV 130	(HF)	(NDT)	Inocenter	
Inogun A	\checkmark	-	\checkmark	-	-	(1)				
Inogun A FCC	\checkmark	-	-	\checkmark	-					
Inobell	-	\checkmark	-	-	\checkmark					

Robotic applicator range

	Control m	Control module Robotic support Powder feed system							
		705		2 applicators			CSV 217	CSV 230	
	Inocontroller	TCR	1 applicator	parallel	convergent	CSV 130	(HF)	(NDT)	Inocenter
Inogun R	✓	-	~	-	-				
Inogun RD	✓	-	-	✓	-	- (1)			
Inogun RC	✓	-	-	-	\checkmark				
Inobell R	-	\checkmark	\checkmark	-	-				

(1): Compatible for use

(2): The module can be fixed on a wall bracket;

(3): The module can be integrated in a cabinet with a supervisor

(4): The equipment is also available in a 2 operator version = Inocart V12
(5): The equipment is also available in a 2 operator version = Inocart H2

NF: No fluidization, control module version without fluidization air dedicated only to

Inocart HF or Inocart NDT equipment or Inogun M alone

M: Manual; A: Automatic; FCC: Fast Color Change

R: Robotic; RD: Twin parallel support; RC: Twin convergent supp VT: Vibrating Table; H: Fluidization Hopper; H2: Equipment for operators

HF: High Flow, pressure tank is intended for the application of application

NDT: Non Destructive Testing, pressure tank designed to su

Powder Systems

OR

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Bond | Protect | Beautify



Manual Gun



USER-FRIENDLY AND ERGONOMIC MANUAL POWDER GUN

TECHNOLOGIES:

TEC5 (Transfer Electronic Control)



CORONA CHARGE



TECHNICAL DATA

GUN	Inogun M / M+
Weight of the gun (without cable and hose)	549 g
Length gun only	340 mm
Air Consumption	2 - 10 m³/h
Powder flow ⁽¹⁾	up to 24 kg/h
Powder hose	Lg. 6m øll mm
Max output voltage negative (HVU)	-100 kV (0 kV, -10 kV)
Max output voltage positive (HVU)	+100 kV (0 kV, +10 kV)
Max current	110 μA (+ or - 10 μA)
Ambient temperature during operations	0° to 40°C
Relative Humidity Max	80 %
CONTROL MODULE	Inobox NF
Air feeding pressure	7 bar (+/- 1)
Weight	3.9 kg
Protection index	IP64 - Degree of pollution: 2
Power supply	100 VAC at 240 VAC / 50 Hz - 60 Hz
Maxi input power	105 W at 230 VAC

(1): it depends on the type of powder hose

ATEX MARKING:









Inogun M

The **Inogun M** gathers all **SAMES KREMLIN**'s knowledge and expertise to provide the best of electrostatic technology for the manual application of powder.

- Lifetime finish quality: Long life cascade durability and HV performance
- Efficient powder transfer: TEC5 technology
- Balanced and ergonomic design: No repetitive strain damage, less fatigue



Manual gun

Inogun M

DESCRIPTION



The **Inogun M** is controlled by the Inobox which has a clear and **easy to use interface**. The connected integrated Inocontroller can also be used when it is necessary to integrate an automatic booth. The **Inobox** and the **Inocontroller** are the main control centers for manual and automatic applications as it performs and controls:

- high voltage,
- current,
- electrode cleaning air,
- injection air,
- and dilution air.

Dust and energy saving has been implemented at the heart of the gun to reduce waste, and increase productivity and the quality of finishing powder.



The **Inogun M** is designed to provide the best quality powder application because it is well-balanced, supplied

with low voltage cable, powder tube and reactive trigger

The **powerful high voltage** unit coupled with the high voltage control unit provides a high wraparound effect on large parts (D. 500mm / 20 in) and has deep penetration into recessed areas. This reduces the cost of the equipment with a better powder usage rate and reduces the time to

that requires a gentle touch.

spray the powder.

Inobox allows a comfort of use for your production line, manages the programs for your campaigns of parts as well as pre-settings optimized to the shapes of the parts to be painted.

The **Inogun M** is available in different kits according to the needs of your powder coating process. The **Inogun M** can be used as a main applicator to perform powder coating and can be mounted on a **tank** or independent powder supply box on a **vibrating table**.

The **Inogun M** can be used as a **pre-touch or touch-up solution** in an automatic booth to obtain the desired coating on the workpiece. The Inogun M is also used for **non-destructive testing** applications.



Inobox NF

Quick access to application settings through an intuitive interface.





Complete equipment with vibrating table for fast and frequent color changes.

Inocart H



Capacity: 50 | (12.5 gal)

Complete equipment with fluidized tank for high production and complex powders. Inocart HF & NDT



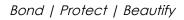
Capacity: HF - 24 I. (6.35 (NDT - 15 I. (3.96 a

Fully equipped with a r versions available: NDT very low flow rate HF very high flow rate



Powder Systems

Tools &





Manual gun

Inogun M

PERFORMANCE

1 Outstanding comfort of use: well-balanced and comfortable handle grip

2 Quick hose powder disconnection: quick color changes and rotation for flexibility

3 Constant and stable spray for a smooth and even application

4 TEC5 technology delivers high finish quality

5 Three factory presets for quick start. 99 custom presets available to meet the most production requirements

PRODUCTIVITY

4 Advanced HV control for an excellent penetration of complex-shaped parts

- 6 Wide range of adapted nozzles for optimal application
- 7 Powerful cascade providing a strong wraparound effect
- Easy application of metallic powder
- Fast color change and cleaning
- High transfer efficiency to reduce working time

SUSTAINABILITY

- 1 Robust and sturdy design
- **5** Wear part status monitoring imbedded in the INOBOX controller
- 6 Very good abrasion resistance for nozzles
- 2+1 years warranty *

* except wearable parts, see conditions to apply on the warranty page of our web site

TEC5 TECHNOLOGY

(Transfer Electronic Control)

TEC5 technology processor will automatically adjust the voltage giving the best application. It takes into account the powder flow and distance of the parts to deliver the highest powder transfer and finish quality.

TEC5 technology is the 5th generation and is the result of 55 years of innovation, experience, and knowledge from SAMES KREMLIN. Our expertise has been used to develop two new major components which are the High Voltage unit (cascade), and the High Voltage control system (processor).

The TEC5 diagram shows the spraying distance & High Voltage as it highlights that beyond 300 to 400 mm between the powder gun and the part that is to be coated, the powder receives a very high voltage with low current; therefore, the powder doesn't get enough charge which decreases the transfer efficiency and wrap-around effect. At the opposite end of the scale, under a distance of 30 mm (red zone of the diagram) to the part to be coated, the current increases very quickly, and the control system shuts down the High Voltage and current to avoid any potential hazards.



16

Manual gun

AVAILABLE GUN CONFIGURATIONS

Description	Low voltage cable (m)	Powder hose (m)	Wall support	Inobox NF (1)	Inocontroller	C\$130	CSV217 ⁽³⁾	CSV230 (4)	Part Number
	6	-	-	-	-	-	-	-	910030034
Equipped Inogun M ⁽²⁾	12	-	-	-	-	-	-	-	910030034-12
	18	-	-	-	-	-	-	-	910030034-18
Equipped Inogun M+ (7)	6	-	-	-	-	-	-	-	910031951
Equipped inogun M+ (i)	12	-	-	-	-	-	-	-	910031951-12
	6	6 (ø11x16 mm)	\checkmark	✓	-	\checkmark	-	-	910030368
		6 (ø9x13 mm)	✓	✓	-	-	✓	-	910031462
		6 (ø6x10 mm)	\checkmark	✓	-	-	-	✓	910030370
	12	12 (ø11x16 mm)	\checkmark	✓	-	\checkmark	-	-	910030368-12
Pack Inogun M (2)		12 (ø9x13 mm)	\checkmark	✓	-	-	✓	-	910031462-12
		12 (ø6x10 mm)	✓	✓	-	-	-	 ✓ 	910030370-12
			✓	✓	-	✓	-	-	910030368-18
	18	18	-	-	✓	-	-	-	910030628
			-	-	✓	✓	-	-	910030627

OPTION NOZZLES

Description		Defl	ector	Longhi	Part Number		
Description	Nozzle support	Round spray	Flat spray	Lenght	Round spray	Flat spray	
Round spray electrode support	\checkmark	-	-	-	910027641	-	
		ø12 mm			1411500		
		ø16 mm			1409259		
		ø20 mm	1		1409260		
Round spray deflector	-	ø25 mm	1 -	-	1411993	-	
		ø16 mm HD (5)	1		900008026		
		ø20 mm HD (5)	1		900008027		
Flat spray electrode support	✓	-	-	-	-	910027640 (6)	
		-	Medium (grey)		_	900016321 (6)	
Flat spray deflector	-		Narrow (green)	-		900019952	
			Large (black)	1		900020796	
				150 mm	910028576	910028485	
			-	300 mm	910028575	910028486	
E la calcula de la				450 mm	910030942	910032772	
Extended nozzle	-	-		600 mm	910029099	910032773	
				1050 mm	910031754	-	
				1500 mm	910032437	-	
Large flat spray deflector for extens	-	900021864					
Counter electrode for maual gun	91003	31755					
Kit for converting a flat spray into a	round spray				91003	32710	
Kit for converting a round spray into	o a flat spray				91003	32709	

(1): NF = No fluidization, control module version without fluidization air (P/N: 910030576); (2): Supplied with low voltage cable and medium fan spray nozzle (PN: 900016321); (3): Pressure tank HF: High Flow; (4): Pressure tank NDT: Non Destructive Testing; (5): HD = High Durability, suitable for «abrasive/aggressive» powder except for enamel coating powder; (6): Supplied with the Inogun M gun as standard; (7): Positive electric charge gun version



Pack Inogun M

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Nozzles

Tools & Accessories

OR



Inocart equipment range

Ergonomic, reliable and performing, the solution Inocart is the combination of the best technologies. It has been specially designed for companies looking to improve their powder coating application and the overall efficiency of the operator.

Available in four versions:

Inocart VT / VT2

Complete equipment with vibrating table for fast and frequent color changes.

Inocart H / H2

Complete equipment with fluidized tank for high production and complex powders.

Inocart HF & Inocart NDT

Fully equipped with a pressure tank. 2 versions available: **NDT** very low flow rate for penetrant testing (as low as **3g/mn**), **HF** very high flow rate, 1200g/mn, high film build.







SPECIFICATIONS DETAIL FOR EACH EQUIPMENT

Designation	Inocart VT	Inocart H	Inocart HF	Inocart NDT		
Air Supply Pressure	7 bar (+/- 1) (101.5 psi)					
Air Consumption	2-10 m3/h	(1.1 - 5.9 cfm)	5 - 12 m3/h	(2.9 - 7 cfm)		
Standar flow rate ⁽¹⁾	50 to 450 g/mi	in. (15.8 oz/mn)	100 to 1200 g/min. (42 oz/mn)	3 to 50 g/min. (1.75 oz/mn)		
Box or Hopper Capacity	15 I. (3.96 gal)	50 I (12.5 gal)	24 I. (6.35 gal)	15 I. (3.96 gal)		
Height		1230 mm	n (48.4 ln)			
Width		490 mm	(19.2 ln)			
Length	630 mm (25 ln)	670 mm (26.4 ln)	710 mm (28 ln)			
Approximate weight (without powder)	42 kg (92.5 lbs)	42 kg (92.5 lbs)	45 kg (99 lbs)	40 kg (82 lbs)		
CONTROL MODULE	Inobox VT	Inobox H	Inobox NF	Inobox NF		
Maximum Air Pressure		7 bar	(+/- 1)			
Protection index		IP64 - Degree	of pollution: 2			
Power supply		100 VAC at 240 V	/AC / 50 Hz - 60 Hz			
Maxi input power		105 W at	230 VAC			
Fluidization air flow rate plunger tube	0.4 m³/h	-				
Tank fluidization air flow rate	-	2.1 m ³ /h	- - - 4.8 m³/h max.			
Electrode blowing	0.1 m³/h	0.1 m³/h				
Powder coating	6.5 m³/h	8.5 m³/h				
In cleaning	9.5 m³/h	9.5 m³/h				
Air consumption of Fast Clean at 7bar	7 l/s per pulse	-]			

(1): it depends on the type of powder hose and maximum 30 gr/min with dry penetrant powder.

ATEX MARKING:

Inogun M & Inogun M+ C C 0080 🐼 II 2 D 2mJ T85°C INERIS 19ATEX0021X

C Inobox VT - Inobox H - Inobox NF C C C 0080 II 3 (2) D [2 mJ] Ex to IIIC 185°C Dc INERIS 19ATEX0021X

D [2 mJ] C [2 mJ] For Electro.Appl.CL II, Div 2, Group F, G Inocart VT - Inocart H - Inocart HF - Inocart NDT C € 0080 ⊕ II 3 D Ex h IIICT100°C Dc C\$130



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C € ∰ || 3 D c T 85°C

Inocart equipment range

THE EQUIPMENT

Our **Inocart range** is designed for manual powder coating. The minimum equipment required for Inocart coating includes a pump(1), a powder hose(2), a control module (3), a spray gun(4) and a trolley(5) that integrates the various powder paint supply systems:

- Box (VT)
- Hopper (H)
- Pressure tank (HF & NDT)

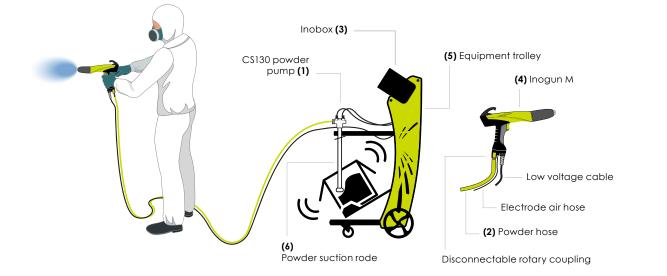
The powder pump is equipped with a suction rod(6), suitable for the vibrating table or fluidised tank trolley version.

The gun is connected to the pump by a single powder feed hose and to the Inobox control module which allows the operator to easily adjust the paint application settings:

- Powder flow
- Voltage and current for electrostatic coating
- Coating program and part campaign
- Electrode blowing air

The operator has the ability to adjust the flow rate of the powder and electrical characteristics preset voltage/ current levels from the gun.

The choice of equipment must be made according to the nature of the powder paints, the frequency of colour changes and the type of parts to be painted.



www.sames-kremlin.com

DESCRIPTION

Inocart VT is perfect for applying an even spray pattern for powders like polyester, epoxy, or acrylic which are supplied in 20 kg (44 lb) boxes. The vibrating table liquidizes the powder and allows the powder pump to move the powder swiftly through the tubing to the manual gun.

Inocart HF is designed to apply thermoplastic and anticorrosion powders. In order to obtain a thick powder layer (up to 500 μ m) in one pass, the pressure pot CSV 217 offers a usable volume of 24 liters - 6.3 US Gal (ie: a range of about 8 minutes at 1200 g/min - 42.3 Oz/min).

Inocart NDT is designed for Non-Destructive Testing processes to apply powder developer. This application process is widely used in the aerospace market. Powder is finely applied in a homogenous layer with the substrate still visible. In order to obtain film thickness, the CSV 230 pressure tank will enable the best movement of powder to the gun for the required application.

Inocart H is perfect for all types of powders, including metallic and material-filled powders. The hopper, with a capacity of 50 liters (13.2 US gallons), ensures a very stable powder spraying.



Inocart VT



Manual application systems

Inocart VT is a simple and complete manual solution for applying powder. Partnering the Inogun M spray gun and the Inobox control module enhances the user's experience. It contains a user-friendly interface with advanced ergonomic functions to help maintain the focus on the powder application and the finish

Fast color changes: Under 25 seconds to clean
Efficient powder transfer: TEC5 technology

• Easy to operate: 2 minutes from training to production



USER-FRIENDLY COMPACT EQUIPMENT FOR EXCEPTIONAL FINISH

TECHNOLOGIES:

TEC5 (Transfer Electronic Control)







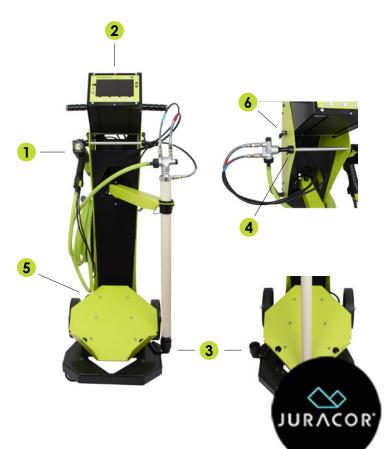


VIBRATING TABLE

quality.







PERFORMANCE

1 Constant and stable spray pattern for a smooth and even application

- 1 Well-balanced gun for easy maneuvering
- **2** Three factory presets for quick start. 99 customer presets available to meet production requirements
- 2 Inobox height can be easily adjusted for reading
- TEC5 technology delivers high-quality finish
- No puffing

PRODUCTIVITY

1 Powerful cascade providing a strong wraparound effect

2 Advanced HV control for excellent penetration of complex-shaped parts

- 2 Simple and instant control of powder flow rate
- **3** Electric vibrating table

4 Self-locking hook to maintain the gun and the pump during cleaning

- 5 Dedicated foot rest to easily move the Inocart
- High transfer efficiency to reduce processing time

SUSTAINABILITY

- 1 Unsurpassed cascade performance lifetime
- 2 All wear parts are monitored on the controller to
- encourage proper preventative maintenance
- 6 Designed for industrial use
- Built with proven and high-quality components
- 2+1 years warranty *

 * except wearable parts, see conditions to apply on the warranty page of our web site



Inocart VT

MANUAL POWDER COATING EQUIPMENT

Description	Number of guns	Low voltage cable (m)		Powder hose (r	Part Number	
Description	Nomber of goils	6	12	6	12	
	1	\checkmark	-	✓	-	910029950
Equipped Inocart VT	1	-	✓	-	✓	910029950-12
		 ✓ 	-	✓	-	010020274
Equipped Inocart VT2 (1)	2	\checkmark	-	-	✓	910030364
Equipped Inocart VT+ (2)	1	\checkmark	-	✓	-	910033422
	1	-	✓	-	✓	910033422-12

(1): VT2, dual operators set supplied with :

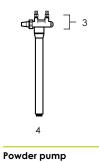
 1 Inocart VT including 1 Inobox VT + 1 Inogun M (6m for powder and air hoses) + 1 powder tube
 1 Pack Inogun M with 1 Inobox VT + 1 Inogun M (12m for powder hoses and 6 m for the low voltage cable) + 1 powder tube + 1 wall support
 (2): Positive electric charge gun version



Equipped Inocart VT2

POWDER COMPONENTS CS130

Description	Item	Part Number
CS 130 (alone)	3	910013775
Plunger tube for E. Inocart VT	4	910025252
Metallic air injector	A	910014564
Plastic air injector	A'	910014565
Red washer 1/8	В	EU9000853
Quick release connector 1/8'' BSP	С	EU9001083
Releasable connector 1/8" BSP	D	F6RAJR025
Blue washer 1/8	E	EU9000854
Venturi tube assembly	F - Grey	910014388
	Option white	910014390
O-ring-Black viton	G	J2FTDF273
Anti-static outlet tip	Н	900008907
Connection nut	I	900008904



G Н Е ODA)))) OR

Inocart H



Manual application systems

Inocart H is a simple and complete manual solution with a fluidized hopper for spraying powder. Partnering the Inogun M spray gun and the Inobox control module enhances the user's experience. It contains a user-friendly interface with advanced ergonomic functions to help maintain the focus on the powder

• Highest finishing quality: High fluidization for smooth and

Easy to operate: Less than 2 minutes from training to

application and the finish quality.

constant application of difficult powders Efficient powder transfer: TEC5 technology





USER-FRIENDLY COMPACT EQUIPMENT READY TO SPRAY

TECHNOLOGIES:

TEC5 (Transfer Electronic Control)







HOPPER

production









PERFORMANCE

1 Constant and stable spray pattern for a smooth and even application

- 1 Well-balanced gun for easy maneuvering
- **2** Three factory presets for quick start. 99 customer presets available to meet production requirements
- 2 Inobox height can be easily adjusted for reading
- TEC5 technology delivers high-quality finish
- No puffing

PRODUCTIVITY

1 Powerful cascade providing a strong wraparound effect

2 Advanced HV control for excellent penetration of complex-shaped parts

2 Simple and instant control of powder flow rate

3 Smooth powder flow with low velocity due to the fluidized hopper

4 Self-locking hook to maintain the gun and the pump during cleaning

- 5 Dedicated foot rest to easily move the Inocart
- High transfer efficiency to reduce processing time

SUSTAINABILITY

- 1 Unsurpassed cascade performance lifetime
- 2 All wear parts are monitored on the controller to encourage proper preventative maintenance
- 3 Stainless steel hopper for industrial use
- 6 Designed for industrial use
- Built with proven and high-quality components
- 2+1 years warranty *

 * except wearable parts, see conditions to apply on the warranty page of our web site



Inocart H

MANUAL POWDER COATING EQUIPMENT

Description	Number of guns	Low voltage cable (m)		Powder hose (I	Part Number	
Description	Number of going	6	12	6	12	
En viewe et la elevation	1	\checkmark	-	✓	-	910030365
Equipped Inocart H	1	-	✓	-	✓	910030365-12
		✓	-	✓	-	010020277
Equipped Inocart H2 (1)	Z	✓	-	-	✓	910030366
Equipped Inocart H+ (2)	1	✓	-	✓	-	910033423
	1	-	✓	-	✓	910033423-12

(1): H2, dual operators set supplied with :

 1 Inocart H including 1 Inobox H + 1 Inogun M (6m for powder and air hoses) + 1 powder tube
 1 Pack Inogun M with 1 Inobox VT + 1 Inogun M (12m for powder hoses and 6 m for the low voltage cable) + 1 powder tube + 1 wall support
 (2): Positive electric charge gun version



Equipped Inocart H2

POWDER COMPONENTS CS130

Description	ltem	Part Number
CS 130 (alone)	3	910013775
Plunger tube for E. Inocart H	4	910030912
Metallic air injector	A	910014564
Plastic air injector	A'	910014565
Red washer 1/8	В	EU9000853
Quick release connector 1/8'' BSP	С	EU9001083
Releasable connector 1/8" BSP	D	F6RAJR025
Blue washer 1/8	E	EU9000854
Venturi tube assembly	F - Grey	910014388
	Option white	910014390
O-ring-Black viton	G	J2FTDF273
Anti-static outlet tip	Н	900008907
Connection nut	I	900008904



G Н Е ODDI. M OR







USER-FRIENDLY COMPACT EQUIPMENT READY TO SPRAY

TECHNOLOGIES:

TEC5

(Transfer Electronic Control)







PERFORMANCE

1 Constant and stable spray pattern for a smooth and even application

- 1 Well-balanced gun for easy maneuvering
- 2 Three factory presets for quick start. 99 customer presets available to meet production requirements
- **2** Quick and easy adjustment of the Inobox height for easy information reading
- **3** Capable of very low and regular flow with low speed due to the pressure tank
- TEC5 technology delivers high-quality finish
- No puffing

PRODUCTIVITY

- 1 Powerful cascade providing a strong wraparound effect
- 2 Advanced HV control for excellent penetration of complex-shaped parts
- 4 Simple and instant control of the powder flow rate by a shutter lever
- 5 Self-locking hook to maintain the gun and the pump during cleaning
- 6 Dedicated foot rest to easily move the Inocart
- High transfer efficiency to reduce processing time

SUSTAINABILITY

- 1 Unsurpassed cascade performance lifetime
- 2 All wear parts are monitored on the controller to
- encourage proper preventative maintenance
- 7 Designed for industrial use
- Built with proven and high-quality components
- 2+1 years warranty *

 * except wearable parts, see conditions to apply on the warranty page of our web site



Inocart HF – Inocart NDT

Inocart HF is a simple and complete manual solution for applying thermoplastic and anti-corrosion powders. **Inocart NDT** is a simple and complete manual solution for Non-Destructive Testing (NDT). Using the Inogun M spray gun and the Inobox control module, it enhances the user's experience with a friendly interface and advanced ergonomic functions to stay focused on applying powders.

- High powder flow for extreme film builds : Up to 1.2 kg/min
- Very low and stable powder flow (as low as 3g/mn): Exclusive pressure tank
- Easy to operate : Less than 2 min. from training to production

PRESSURE TANK







Inocart HF – Inocart NDT

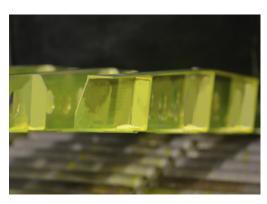
MANUAL POWDER COATING EQUIPMENT

Description	Number of guns	Low voltage cable (m)		Powder ø9 x 13 ø6 x 10 r	Part Number	
		6	12	6	12	
	1	\checkmark	-	✓	-	910030367
Equipped Inocart HF		-	✓	-	\checkmark	910030367-12
	1	✓	-	✓	-	910030369
Equipped Inocart NDT		-	✓	-	✓	910030369-12
Equipped Inocart NDT+ (1)	1	✓	-	✓	-	910033424
		-	✓	-	✓	910033424-12

(1): Positive electric charge gun version



Equipped Inocart HF & NDT



The equipment meets the needs of industrial PT powder developer applications.





Inogun A range

Inogun A sprayer is designed for powder coating in general industry applications. It is generally used as a fixed position or on a reciprocator in a fast color change booth such as **Inobooth**.

Inogun A combines high application performance, easy cleaning and simplicity of use to allow you to increase your productivity and change colors more quickly and efficiently.

Available in two versions:

Inogun A

Projector equipped with an adjustable support arm. It can be easily integrated into all existing cabins or new installations.



Inogun A FCC

Dedicated spotlight for a quick color change booth. Its design assembly delivers perfect cleaning in a very short timeframe.



SPECIFICATIONS DETAIL FOR EACH EQUIPMENT

GUN	Inogun A	Inogun A FCC				
Air Consumption	2 - 10 m³/h					
Powder flow ⁽¹⁾	450 gr/mn (63	3.7 oz/mn)				
Length (gun only)	460 mm (18.1 in)				
Length Inogun A - tube Ø30mm	1046 mm (41.2 in)	-				
Length Inogun A FCC - tube Ø40mm	-	1423 mm (56 in)				
Width	49 mm (1.9 in)					
Height	69 mm (2.7 in)					
Weight	650 g (23 oz)					
Max voltage	100 kV (0 kV	/, -10 kV)				
Max current	110 µA (+ or	- 10 μA)				
Ambient temperature during operations	0° to 4	D°C				
Relative Humidity Max	80 %	6				
CONTROL MODULE	Inocont	roller				
Air feeding pressure	7 bar (+	·/- 1)				
Weight	2.84	(g				
Protection index	IP20					
Using voltage : VLSV ⁽²⁾	24 VDC (min. 21.6 VDC	24 VDC (min. 21.6 VDC - max. 26.4 VDC)				
Maxi input power	40 W @ 24	4V DC				

(1): it depends on the type of powder hose

(2): Very Low Safety Voltage : A +24 VDC LPS (Limited Power Source) supply is recommended to supply the Inocontroller module.

ATEX MARKING:

When configured according to 800004734 For Electro.Fin.Appl.CLII.Spray Mtl





26

THE EQUIPMENT

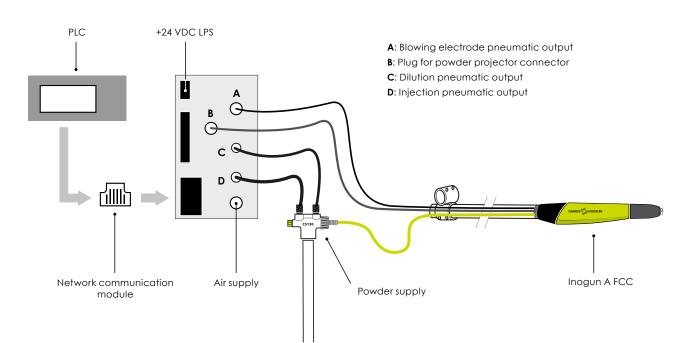
The Inocontroller is a control module for controlling the automatic Inogun A projector or the manual Inogun M spray gun.

The Inogun A projector or the Inogun M spray gun have the function of projecting the electrically charged powder by means of a high voltage unit integrated into the barrel and delivering up to 100kV and 110 µA.

The Inocontroller manages, by microcontroller, the control of the high voltage unit and 3 proportional solenoid valves. In return, a reading of the high voltage and current is performed, as well as the flow of the 3 proportional solenoid valves. The Inocontroller is controlled by a PLC network and accessible for **SAMES KREMLIN** maintenance via **USB connection**.

For instance:

Synoptic of an installation with an Inogun A FCC



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DESCRIPTION

Automatic applicators are used for applying powder to large batches to obtain high transfer efficiency with optimum finish quality.

The automatic spray gun is available in two models:

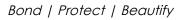
Inogun A

Equipped with a support arm (metal bar) onto which the Inogun-A is attached: it can be changed or fitted quickly and easily to all existing booths. In this version, the assembly may also be fitted onto new installations.

Inogun A FCC

This version is dedicated to quick color change booth. Its profiled assembly means that it may be cleaned perfectly in a very short time. The rear casing of the spray gun is screwed onto the support arm. This diameter is constant along the entire length. It provides the most efficient color change. The tubular arm is also used to channel the hoses and the electrical connections directly and tidily to the rear of the sprayer.







Inogun A – Inogun A FCC



The Inogun A or Inogun A FCC sprayer gather all SAMES KREMLIN's knowledge and expertise to provide the best electrostatic technology for the application of powder in automatic booths.

- Lifetime finish quality: Long life cascade durability and HV performance
- Efficient powder transfer: TEC5 technology
- Reduced downtime: Quick gun change in less than 1 minute



USER-FRIENDLY COMPACT EQUIPMENT FOR EXCEPTIONAL FINISH

TECHNOLOGIES:

TEC5 (Transfer Electronic Control)



CORONA CHARGE



PERFORMANCE

- 1 Easy and accurate settings for voltage and current
- 2 Constant and stable spray for a smooth and even application
- TEC5 technology offers a high-quality finish
- Fast color change without cross-contamination

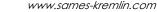
PRODUCTIVITY

- 3 Wide range of adapted nozzles for optimal application
- 4 Powerful cascade providing a strong wraparound effect
- **5** Advanced HV control for excellent penetration in recessed areas
- **5** Widest fieldbus communication protocols for the INOCONTROLLER
- Modular gun design for an easy integration
- \bullet High transfer efficiency to reduce additional manual work

SUSTAINABILITY

- **3** Highly abrasion-resistant nozzles
- 4 Heavy-duty electrostatic cascade
- 6 Quick disconnect in 1 minute, only 1 operator needed to change gun
- Robust design
- 2+1 years warranty *

* except wearable parts, see conditions to apply on the warranty page of our web site



AUTOMATIC POWDER COATING EQUIPMENT

Description	Low voltage cable (m)	Powder hose (m)	Nb. gun(s)	Inobox NF (1)	Inocontroller	C\$130	C\$217 ⁽³⁾	CSV230 ⁽⁴⁾	Part Number
Equip. Inogun A (2)	20	-	1	-	-	-	-	-	910028713
Equip. Inogun A FCC (2)	30	-	1	-	-	-	-	-	910028715
			1	-	✓	✓	-	-	910028695
		15 (ø11x16 mm)	2	-	x2 ✓	x2 ✓	-	-	910030059
Integrator kit Inogun A	20		1	 ✓ 	-	✓	-	-	910030626
Inogonia		15 (ø9x13 mm)	1	 ✓ 	-	-	√	-	910034001
		10 (ø6x10 mm)	1	 ✓ 	-	-	-	✓	910030061
		15 (ø12x17 mm)	1	-	✓	✓		-	910028696
			2	-	x2 ✓	x2 √		-	910030060
Integrator kit Inogun A FCC	30		1	~	-	✓		-	910030577
		15 (ø9x13 mm)	1	✓	-	-	✓	-	910034002
		10 (ø6x10 mm)	1	✓	-	-		✓	910030062
Inocontroller module ⁽⁷⁾ (connection kit included)								910028596	

(7): Network communication module not included: PN: 110002470 Ethernet IP / PN: 110002391 Profinet / PN: 110002472 CC-link / PN: 110002473 Profibus / PN: 110002640 Ethercat Inobox NF module 910030576

Kit support installation rack 19'' pour 1 Inobox

Kit support installation rack 19'' pour 2 Inobox

Powder hose dia. 11x16 mm PN: 130001649# / dia. 12x17 mm PN: 900017737# (in lots of 50 meters) / dia. 9x13mm PN: U1FGBA104# 5(in lots of 50 meters); dia. 6x10mm PN: 130002067

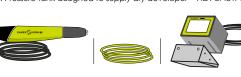
OPTION NOZZLES

Description		Defl	ector	l a u a b t	Part N	lumber
Description	Nozzle support	Round spray	Flat spray	Lenght	Round spray	Flat spray
Round spray electrode support	✓	-	-	-	910027641	-
		ø12 mm			1411500	
		ø16 mm]		1409259	
		ø20 mm]		1409260	
Round spray deflector	-	ø25 mm] -	-	1411993	-
		ø16 mm HD (5)]		900008026	
		ø20 mm HD (5)]		900008027	
Flat spray electrode support	\checkmark	-	-	-	-	910027640 (6)
			Medium (grey)			900016321 (6)
Flat spray deflector	-	-	Narrow (green)	-	-	900019952
			Large (black)			900020796
				150 mm	910028576	910028485
				300 mm	910028575	910028486
Extended nozzle				450 mm	910030942	910032772
	-	-	-	600 mm	910029099	910032773
				1050 mm	910031754	-
				1500 mm	910032437	-
Large flat spray deflector for extension nozzle - Option						900021864
Counter electrode for automatic gun						28711
Kit for converting a flat spray into a	round spray				91003	32710
Kit for converting a round spray into	o a flat spray				910032709	

(1): NF = No fluidization, control module version without fluidization air (P/N: 910030576) (2): Supplied with low voltage cable and medium fan spray nozzle (PN: 900016321) with support arm dia.30mm for Inogun A (**PN: 910029712**) or support tube dia.40mm for Inogun A FCC (**PN: 910026238**) (3): Pressure tank HF: High Flow

Inobox HF

(4): Pressure tank designed to supply dry developer = NDT or low flow rate



Powder hose

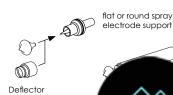


+ Network communication module ^[7] (not included)



CS130

coating powder (6): Supplied with the Inogun A gun as standard;



130002186

130002187

CSV217 / CSV230

Equipped Inogun A / A FCC

Inogun A / A FCC

Integrator Kit Inogun A / A FCC

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Nozzles

(5): HD = High Durability, suitable for «abrasive/aggressive» powder except for enamel

Inobell



Automatic application systems





TCR

InoBell is a rotating electrostatic powder bell sprayer that delivers high performance, excellent finishing quality & easy integration.

It allows the application of powder paint on all types of surfaces with a particular effectiveness on flat surfaces.

- High transfer rate
- Easy maintenance
- Easy integration
- Excellent finishing quality

TECHNOLOGIES:

ROTATING BELL APPLICATOR

CORONA CHARGE





SPECIFICATIONS DETAIL FOR EACH EQUIPMENT

GUN	Inobell
Weight w/o hoses (kg)	3.6
Powder flow ⁽¹⁾ (kg/h)	up to 30
Low voltage cable to TCR (m)	15 or 30
Max voltage (kV)	75
Max current (µA)	100
Pre-set rotation speed (rpm)	7500 (Vmin = 6500 and Vmax = 8500)
Shaping air flow (NI/min)	0 - 80 (proportional from 0 to 100%)
Bearing protective air flow (NI/min)	60
Air supply turbine rotation (NI/min)	40 - 100
CONTROL MODULE	TCR
In a rack (2 modules on front face)	19'' / 2U
Air feeding pressure (bar)	7 (+/- 1)
Max air consumption (NI/min)	350
Max air with high flow rate kit (NI/min)	380
Power supply	90/270 Vac - 50/60 Hz
Maxi power (VA)	90

(1): it depends on the type of powder hose

ATEX MARKING:

CRN458 C C 0080 () II (2) D [EEx <350mJ] ISSeP09ATEX027X Powder Turbine Supply C C 0080 D II (2) D ISSeP09ATEX027X

ply CS130 C€€

C\$130 (€ ⓓ ॥3 D c ⊺ 85℃



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3

Inobell

THE EQUIPMENT

The **INOBELL** sprayer is equipped with a mechanical bearing turbine. It may have a fixed mounting due to its large impact or on a reciprocator.

This sprayer is piloted by the **TCR** module module (1). It manages the rotation speed of the turbine used to spray powder coatings at all times on the digital display on the front face. This module is equipped with a grounded cable, a plug for local command and two connections (2) to control the spray gun and a sensor to measure the speed of rotation.

The powder supply is made thanks to a CS130 powder pump (3).

The powder is brought to high voltage by contact with the bell cup through an integrated high voltage unit into the sprayer. The low voltage is supplied through a specific cable (2) connected inside the INOBELL.

CONTROL MODULE THAT CONTROLS EVERYTHING

- accessible and user friendly,
- adjustment of all functions on screen,
- simplified adjustment of powder flow rates,
- adjustment of air shroud (variable impact),
- turbine rotation is pre-set and controlled,
- 9 spray presets,
- 2 operating modes available: - local mode (screen and/or piloting by wire

connected triggers),

- remote mode (monitoring via a series connection),



- simplified wiring between the module and the sprayer





www.sames-kremlin.com

• storing of parameters,

• clear and visible user interface,

- Complete unit ready to integrate,

- No work required on the software,

- Standard size 19'' - 2U,

• easy to wire in,

• easier to integrate:

Powder Systems



Inobell

PERFORMANCE

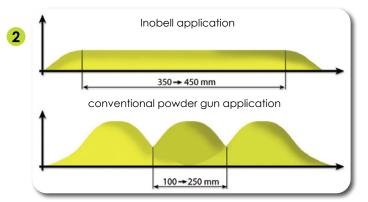
1 Adjustable air shroud: Allows a rapid and marked variation in cloud size. Control of the jet can adjust the width of the cloud being implemented, proportionally

2 Excellent regularity of film build-up:

The quality of finish meets the most stringent and tight D.O.I. (Distinctiveness of image).

• Speed detection for increased application control





PRODUCTIVITY

SUSTAINABILITY

4

4

5

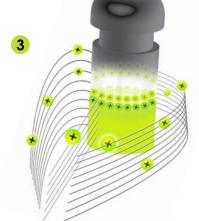
3 Strong electrostatic charge - up to 20% more transfer efficiency compared to conventional guns

Single block design with fewer number of parts

Integrated high voltage unit: no high voltage cable

• Flowrate of 1 inoBell equivalent to 2 guns

Powder bell is easy to disassemble





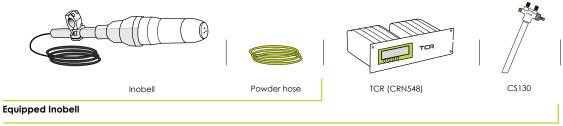
www.sames-kremlin.com

Inobell

AUTOMATIC POWDER COATING EQUIPMENT

Description	Low voltage cable (m)	Powder hose (m) (ø12x17 mm)	TCR	Fixing nut	Powder pump C\$130	Part Number
Equip. Inobell	15	15	-	ø 50x60mm	\checkmark	910020762
Integrator kit Inobell	15	15	✓	ø 50x60mm	✓	910008096

Powder hose dia. 11x15 mm PN: U1FGBA092# / dia. 12x17 mm PN: U1FGBA034# (hose= in lots of 50 meters)



Integrator Kit Inobell

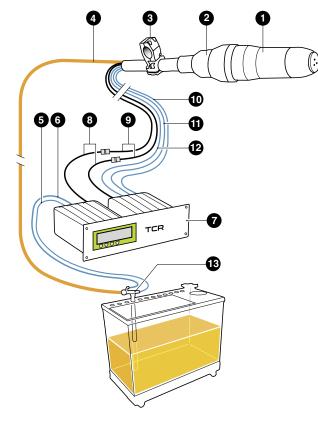
COMPONENTS

Mark	Description	Part Number
1	INOBELL sprayer alone	910007600
2	Special support arm length: 400 mm	910009357
	length: 900 mm	910009358
	length: 1500 mm	910009359
3	Nut ø50/50 mm	429104
4	Hose Ø 12/17 mm Green antistatic (50m)	900017737#
option	Hose Ø 11/16 mm (50m)	130001649#
option	Hose Ø 13/18 mm Green antistatic $^{(1)}$	900017738#
5	Injection air (Ø 6/8 mm) $^{(2)}$	U1CBBT003
6	Dilution air (Ø 4/6 mm) $^{(2)}$	U1CBBT001
7	TCR Control module	900005533
8	High voltage and speed sensor pilot cable ${}^{\scriptscriptstyle (3)}$	910007567
9	Extensions TCR/Inobell	110000972
10	Operating air (Ø 5,5/8 mm) (1)	U1GLBT142
11	Shaping air (Ø 5,5/8 mm) (1)	U1GLBT142
12	Air for protecting bearings (Ø 5,5/8 mm) ⁽¹⁾	U1GLBT142
13	C\$130 Powder pump olone and add	910013775
ref 13000	01142 (union) + 130001143 + 1526399 (plunger)	/10013//3

(1): Minimum order of 50 meters; (2): Minimum order of 100 meters, (3): length. 2 x 2 m

OPTION

Description	Reference
MCR Module	910004516
High flow kit	910003361
Inotank 100 Liter	910031487
Inotank 150 Liter	910031488
Inosieve 100 Liter	910031384
Inosieve 150 Liter	910031385
C\$206 air control panel	1502844



Tooling kit

OR

91

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Robotic application systems



MODULAR DESIGN FOR FLEXIBLE INTEGRATION AND PROCESS EVOLUTION

TECHNOLOGIES:

TEC5 (Transfer Electronic Control)



CORONA CHARGE



PERFORMANCE

- 1 Easy and accurate settings for voltage and current
- 2 Constant and stable spray for a smooth and even application

• Fast color change without cross-contamination Productivity

3 TEC5 technology offers a high-quality finish

PRODUCTIVITY

- 4 Wide range of adapted nozzles for optimal application
- 5 Powerful cascade providing a strong wraparound effect
- **6** Advanced HV control for excellent penetration in recessed areas
- 6 All common communication types are supported by the Inocontroller module
- Modular gun design for easy integration
- Sustainability

SUSTAINABILITY

- 4 Highly abrasion-resistant nozzles
- 5 Heavy-duty electrostatic cascade
- 7 Quick disconnect 1 minute, only 1 operator needed to change gun
- Designed for heavy industrial use
- 2+1 years warranty *

* except wearable parts, see conditions to apply on the warranty page of our web site

Inogun R / RC / RD

The Inogun robotic applicators are examples of SAMES KREMLIN's knowledge and expertise for providing the best electrostatic technology for robotic powder applications.

- Lifetime finish quality: Long life cascade durability and HV performance
- Efficient powder transfer: TEC5 technology
- Reduced downtime: Quick gun change in less than 1 minute



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Electrostatic Powder Coating

Robotic application systems

DESCRIPTION

The Inogun robotic applicator built with a common base are thoroughly tested for robotic powder applications.

We are providing 3 different versions of the applicator and they are fitted with a different robot bracket: Inogun R for a single gun,

Inogun RD for parallel guns,

Inogun RC for convergent guns.

Inogun R / RC / RD

ADAPTATION TO INDUSTRIAL CONSTRAINTS

- · Respond to the evolution of PRODUCTION CAPACITY and application constraints
- Master FINISHING QUALITY of your products through precise and controlled trajectory
- Maximize your productivity GAINS combining robotics and COATING application with electrostatic powder bell
- Improve COMPETITIVENESS of your business and access to **NEW MARKETS**

ROBOTIC POWDER COATING EQUIPMENT

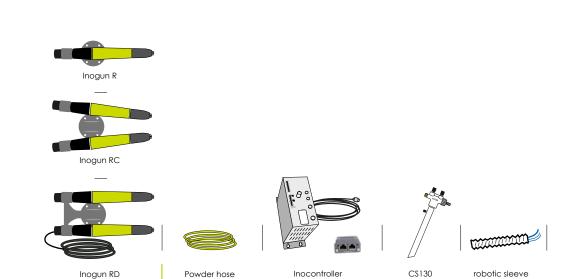
Description	Low voltage cable (m)	Powder hose (m) (ø12 mm)	Nb. gun(s)	Inocontroller	Powder pump CS130 ⁽²⁾	Part Number
Equip. Inogun R (1)	30	-	1	-	-	910030100
Equip. Inogun RC 1)	30	-	1	-	-	910030101
Equip. Inogun RD (1)	30	-	1	-	-	910030102
Integrator kit Inogun R (3)	30	30 12 2		x2 ✔	x2 ✔	910029967
Integrator kit Inogun RC (3)			2			910029969
Integrator kit Inogun RD (3)						910029968
Inocontroller module ⁽⁴⁾ (connection kit included)						910028596

Inocontroller module⁽⁴⁾ (connection kit included)

(4): Network communication module not included: PN: 110002470 Ethernet IP / PN: 110002391 Profinet / PN: 110002472 CC-link / PN: 110002473 Profibus / PN: 110002640 Ethercat

(1): Supplied with low voltage cable and medium fan spray nozzle (PN: 900016321) with common part of the Inogun A FCC (2): Pump with tube in version without fluidization(3): 6 m of robotic sleeve

Powder hose dia. 12 mm (antistatic; PN: 900017737 (hose= in lots of 50 meters) Counter electrode for automatic gun; PN: 910028711



Equipped Inogun R / RC / RD

+ Network communication module



Integrator Kit Inogun R / RC / RD



Robotic application systems





Inobell R

Inobell R meets the most demanding criteria of finishing quality, ease of operation, robotic adaptability, electrical safety, reliability, and ease of maintainability.

- Increased productivity
- Excellent finishing quality
- Easy maintenance



TECHNOLOGIES:

RORATING BELL APPLICATOR







SPECIFICATIONS DETAIL FOR EACH EQUIPMENT

GUN	Inobell
Weight w/o hoses (kg)	5.2
Powder flow ⁽¹⁾ (kg/h)	up to 30
Low voltage cable to TCR (m)	15 or 30
Max voltage (kV)	75
Max current (µA)	100
Pre-set rotation speed (rpm)	7500 (Vmin = 6500 and Vmax = 8500)
Shaping air flow (NI/min)	0 - 80 (proportional from 0 to 100%)
Bearing protective air flow (NI/min)	60
Air supply turbine rotation (NI/min)	40 - 100
CONTROL MODULE	TCR
In a rack (2 modules on front face)	19'' / 2U
Air feeding pressure (bar)	7 (+/- 1)
Max air consumption (NI/min)	350
Max air with high flow rate kit (NI/min)	380
Power supply	90/270 Vac - 50/60 Hz
Maxi power (VA)	90

(1): it depends on the type of powder hose

ATEX MARKING:

C € 0080 🐼 II 2D EEx <350 mJ ISSeP09ATEX027X



Catalogue V2.0

Robotic application systems

Inobell R

(1): supplied with robotic support + low voltage connection (15m) + powder hose ø12x17 mm (15m) + air hoses (15m) + Black flexible sleeve (6m) + Powder pur TCR module

Integrator Kit Inobell R

- Powder Systems
- ools & Accessories

• An economy of paint (the transfer efficiency is high, and can reach over 80%) thanks to the high transfer charge. The precise control of the coating thickness is made possible by the powder bell powder is economised.

New removable turbine cartridae:

Integrated & variable shaping air (proportional adjustment on TCR module),

- Removable powder bell cup,
- Improved bearing protection,
- Improved motor efficiency.
- Flexible air shroud:

This enables a fast and marked variation of the size of impact. Controlling the pattern allows the width of the impact to be proportionally adjusted during application (from 300 to 450 mm).

- New speed measuring system:
- Greater precision in the application of the paint.

ADVANTAGES OF THE ROTATING BELL

The powder is supplied via the central tube and is rotated by the bell cup. It is electrically charged when it leaves the bell and heads towards the object to be coated in a very wide and enveloping spray. The powder is both electrically charged and sprayed by this flat shaped bell, that rotates at high speed. The bell itself acts as an electrode by bombarding the powder particles with ions, thus providing the powder with a high electrical charge.

The rotary bell cup associated to the high voltage ensures: • A high level of productivity (paint flow of over 500g/min).

- Homogeneous coating.
- An adjustable spray paint pattern.

• A maximum coverage of parts to be paint (the electrostatic wrap round effect permits a transfer of paint behind the part).

TECHNOLOGICAL INNOVATIONS

• Integrated high voltage unit (UHT165) No high voltage cable:

- Less maintenance,
- Easy to install,
- Staff safety.



- Simplified design:
- Compact and ergonomic system,
- Access and wiring improved,
- Equipment simple to install,
- Number of parts reduced.



ROBOTIC POWDER COATING EQUIPMENT

Description	Low voltage cable (m)	Powder hose (m) (ø12x17 mm)	TCR	Robot support	Powder pump CS130	Part Number
Inobell Projector	-	-	-	-	-	910007600
Integrator kit Inobell R (1)	15	15	\checkmark	✓	✓	910011722

Powder hose dia. 11x16 mm PN: 130001649# / dia. 12x17 mm PN: 900017737# / dia. 13x18 mm PN: 900017738# (hose= in lots of 50 meters)

C\$130 Robotic support Inobell projector Air hoses Powder hose TCR (CRN548) robotic slee









Control systems



The INORECIP V reciprocator is the best choice for monitoring automatic spray guns and bells in powder coating automatic installations. It features a vertical and horizontal Movement System.

- Simple and rugged construction
- Very long service life
- Reduced maintenance

DESIGNED FOR FLEXIBLE INTEGRATION AND PROCESS EVOLUTION

PERFORMANCE

• Stroke and speed adjustable remotely over a very wide range.

• No special prepared area required (the reciprocator can be positioned or moved manually without effort).

PRODUCTIVITY

• Extremely simple construction and operation (very long service life).

• Smooth inversion movement for a better coating quality Sustainability

SPECIFICATIONS DETAIL FOR EACH EQUIPMENT

SYSTEM	Inorecip V					
Height (mm)	2524	2824	3124	3424	3724	4024
Stroke (cm)	120	150	180	210	240	270
Empty weight (kg)	278	300	323	350	383	415
Maximum load (kg)			5	0		
Lifting rings (mm)			Dia	. 40		
Diameters of support bars (mm)	Die	a. 40 (Ho	orizontal)	& Dia. 5	i0 (Vertic	al)
Power supply - single phase (VAC)	230					
Max. operating temperature (°C)			4	40		
Number of guns (max)			1	12		
Maximum vertical speed (m/min)	36					
Maximum horizontal speed (m/min)			8	3		
	li	nomotio	n	- li	norecip	Н
Stroke adjustment (m)		-			up to 1	
Height (mm)	182			273		
Width (mm)		220		730 (650 + 80)		
Depth (mm)		250		1900		
Weight (kg)		3.34			~150	
Power supply - single phase (VAC)	230					
Frequency (Hz)	50 - 60					



ATEX MARKING:

Inorecip V & Inorecip H

🕻 🧲 🔛 II 3 D Ex h IIIC T135° C Dc

Inomotion Inorecip V & H

CE

Inorecip V & H is classified as category 3 according to the ATEX 2014/34/EU directive and is designed for a For Inorecip H, the front part is implanted in zone 22 and the rear part is out of zone.



SUSTAINABILITY

• Optimum safety - CE approved.

• Reduced maintenance - limited to cleaning the belt and transmission devices.

- Designed for industrial use
- Built with proven and high-quality components

Inorecip

THE EQUIPMENT

The Inorecip V reciprocator is designed to equip automatic powder coating installations.

It is composed of a mechanism controlled by an Inomotion control module placed in an electrica cabinet.

It allows to drive, with a vertical reciprocating movement, powder projectors, for example:

- 12 Inogun A powder projectors,
- 4 Inobell powder projectors.

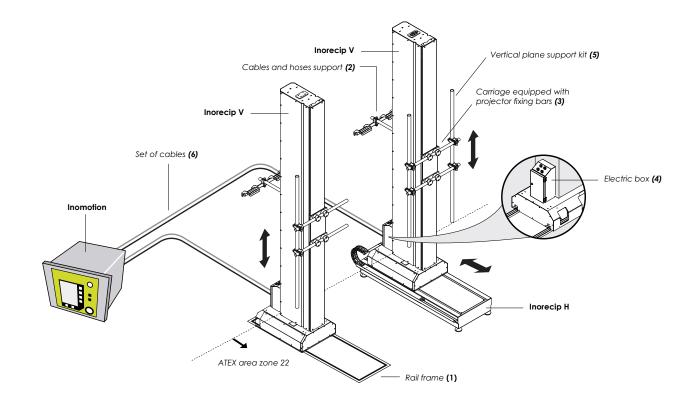
The **Inomotion** control module allows to remotely control the vertical reciprocating mechanism of the Inorecip V and the horizontal positioning of the Inorecip H (option). It is connected by power and control cables to the box located at the rear of the Inorecip V.

Inorecip H (option)

The In and Out carriage Inorecip H is an unit placed under the Inorecip V reciprocator giving it the possibility to move along a second horizontal axis.

The Inorecip H allows to keep a constant coating distance whatever the width of the parts. It is controlled via the Inomotion control module, which receives information from the part width detection system.

This second axis is also often used for the automatic cleaning mode of the projectors.



MECHANISM OF THE ROBOT «INORECIP»

Description	Effective stroke (cm)	Part Number		
	180	130002072-180AT		
Equipped Inorecip V	120 < xxx < 270	130002072-xxxAT		
Inomotion control up to 8 axes		130002073		
set of 2 electric control cab	130002076			

It is best to choose a standard mechanical robot (180 cm stroke), even if the stroke is greater than the height of the pieces to be painted, it can adapt to space constraints.

Equipped Inorecip V integrates (1-axis):

Inorecip V + x1 rail frame (1) + 1 cables support (2) + 2 projectors fixing bars dia. 40mm (3) + 1 electrical box (4)

COMPONENTS

Description	Part Number		
Vertical plane support kit (5) (2 nuts dia. 40/50mm + 1 bar 50mm	of 2 meters in dia.	910031501	ssories
Fixing nut	Ø50/30 mm.	749805	e C C
Fixing hui	Ø50/40 mm (qt = x2)	200000412	کې ک
Aluminum tube D: 50	900001079	ols	

Description

Inorecip H



Control systems



Inoprofile

Self-positioning of the projectors according to the shape and size of the part to be painted. It is scanned with two 3D shape sensors when entering the spray booth and is ideal for productions.

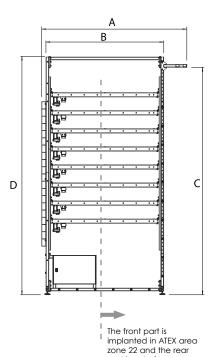
- Quick and modular (independent arms)
- No trajectory presets self adaptive motions
- Less pre-touches and/or touch-ups

TECHNICAL DATA

Inoprofile	Version 1 (booth height 3000 mm max.)	Version 2 (booth height 3500 mm max.)			
Length (A) (mm)	2010	2010			
Frame length (B) (mm)	1632	1632			
Booth height (C) (mm)	3000	3500			
Total height (D) (mm)	3300	3800			
Booth support width (E) (mm)	680	680			
Floor width (F) (mm)	650	650			
Stroke adjustment	1200 mm				
In and Out arm movement speed	adjustable continuous, max. 18 m/min.				
Empty weight approx.	100) kg			
Weight per In and Out arm	15.5 kg				
Projector fixing flange	Ø 40 mm				
Motor data					
Supply voltage	48 VC				
Current	3.5 A				
Torque	1.44 Nm				
Operating temperature	+0° C - 40° C				









Description	Part Number
Inoprofile	Contact us

ATEX MARKING:

40

Inoprofile (() () II 3 D Ex IIIC T85°C Dc



part is out of zone.



Catalogue V2.0

SYNOPTIC INSTALLATION OF INOMASTER SYSTEM

Inoprofile is a new concept which allows the powder projectors to be sprayed and adjusted around the external profile of the part to be painted automatically. The Projectors move independently of each other which makes the coating modular and ensures deep penetration into recessed areas.

THE BIG ADVANTAGES ARE:

Less manual operations in the pre-touch up and touch-up areas, Part profile monitoring, No additional technical skills for operators or handling of projectors, Low cost installation on production line with little space requirement,

FUNCTIONING PRINCIPLE:

The part to be painted is scanned with two 3D shape sensors at the entrance to the powder coating booth of the production line. Then the projectors are positioned automatically according to the shape and size of the part to be painted detected.

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Step 1 : The part is scanned with two 3D shape sensors when entering in the spray booth.

Step 2 : The part profile is measured

Step 3: Real time self positioning adjustment of each gun when spraying.







fools & Accessories

Bond | Protect | Beautify



Control systems



Inomaster

The Inomaster cabinet is intended to supply and control a powder coating installation in a ventilated booth.

The Inomaster cabinet manages the following functions:

• It is designed to install up to 8 Inobox control modules and one Inomotion control module (option).

• Auxiliary pneumatic power supply (with powder tank for example).

• Monitoring of low powder level in the tank.

THE EQUIPMENT

The standard Inomaster cabinet, used in conjunction with its various modules, controls the following functions:

• the installation of 19» standard control racks (not included).

- a power supply module (1)
- a Inogun cleaning control module (2)
- a Inomotion control module option (3)
- up to 8 Inobox control modules option (4)
- a pneumatic supply kit

The module (1) is installed at the top of the Inomaster cabinet above the modules. It is fixed in the cabinet by four screws. This module (P/N: 900002782) is rackable 19 inches and 3U high.

This module (2) is installed below the power supply module and above the Inobox modules. It is fixed in the cabinet with four screws. It allows the control of the cleaning of the Inogun projectors.

The Inomotion control module (3) allows remote control of the Inorecip V reciprocator. It is connected by power and control cables to the cabinet at the rear of the Inorecip V.



TECHNICAL DATA

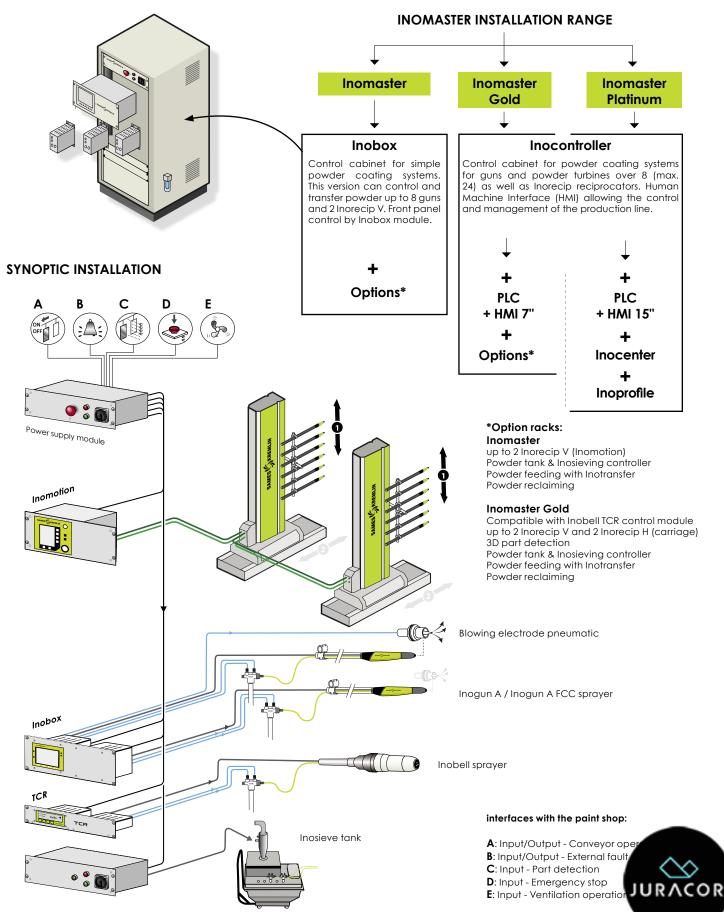
Designation	Inomaster	Power Supply module		
Air Supply Pressure	7 bar (+/- 1)	-		
Maximum flow rate	100 Nm3/h	-		
Maximum consumption in auxiliary air	50 Nm3/h	-		
Maximum consumption per Inobox	6 Nm3/h	-		
Height	2000 mm	173 mm (4U)		
Connection	3/4'' barbed fitting for air hose			
Width	600 mm	483 (19 inch rackable)		
Depth	600 mm	-		
Approximate weight (without powder)	87.5 kg	-		
Protection index	IP2	20		
Power supply	Single-phase 230 \	/AC / 50 Hz - 60 Hz		
Maxi input current consumption	16 A	3.2 A		
Output voltage	-	24 VDC		
Trigger control	-	8 simultane		



Electrostatic Powder Coating

Control systems

Inomaster



Powder Systems

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CS130

Feeding system for powder paint.

 Powder flow up to 24 kg/h (it depends on the type of powder hose)

ATEX MARKING:

C\$130 (€ ∰ ∥3DcT85℃

CUSTOMERS' BENEFITS

• Design without retention for optimal color changes.

Strength of the body thanks to the clamping, no deformation.

• Easy to use, quick maintenance and no special tools required.

• Access to the ejector without removing the tip of the powder hose.

• Quick air coupling connectors with color-coding and keyed connection.

- Metal body and injector allowing solvent rinsing.
- The conductive output tip improves the evacuation of the triboelectric charges that may be generated.
- Quick clamping system with a uniform distribution regardless of the number of powder pumps.

POWDER PUMPS

OWDER PUMPS		
Description		Reference
Male union, dilution air dia.6mm		130001142
Female union, injection air dia.8m	im	130001143
C120 along BOWDED VERSION (inject	ion & dilution)	010012775
CS130 alone - POWDER VERSION (inject		910013775
CS130 dione - Aik VERSION (Injection a	r)	910014333
Plunger tube for Inocart V	ґт	910025252
for Inosieve	/ Inotank (1)	1526399
): The length of the plunger tube is suitable for ccording to the powder container used, this	eferred to the user ma	
CCORDING to the powder container used, this POWDER COMPONENTS CS1	eferred to the user ma	nual nº716 or contact us.
OWDER COMPONENTS CS1	eferred to the user ma 30 Item	nual nº716 or contact us.
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector	eferred to the user ma	nual nº716 or contact us.
OWDER COMPONENTS CS1	eferred to the user ma 30 Item A	nual nº716 or contact us. Reference 910014564
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector	30 Item A A' B	Reference 910014564 910014565
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector Red washer 1/8	30 Item A A' B	Reference 910014564 910014565 EU9000853
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector Red washer 1/8 Quick release connector 1/8'' BSF	30 Item A A' B C	Reference 910014564 910014565 EU9000853 EU9001083
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector Red washer 1/8 Quick release connector 1/8'' BSF Releasable connector 1/8'' BSP	30 Item A A' B C D	Reference 910014564 910014565 EU9000853 EU9001083 F6RAJR025
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector Red washer 1/8 Quick release connector 1/8'' BSP Releasable connector 1/8'' BSP Blue washer 1/8	aferred to the user ma 30 Item A A' B C D E	Reference 910014564 910014565 EU9000853 EU9001083 F6RAJR025 EU9000854
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector Red washer 1/8 Quick release connector 1/8'' BSP Releasable connector 1/8'' BSP Blue washer 1/8	aferred to the user ma 30 Item A A' B C D E F - Grey Option white G	Reference 910014564 910014565 EU9000853 EU9001083 F6RAJR025 EU9000854 910014388
Coording to the powder container used, this COWDER COMPONENTS CS1 Description Metallic air injector Plastic air injector Red washer 1/8 Quick release connector 1/8'' BSP Releasable connector 1/8'' BSP Blue washer 1/8 Venturi tube assembly	30 Item A A' B C D E F - Grey Option white	Reference 910014564 910014565 EU9000853 EU9001083 F6RAJR025 EU9000854 910014388 910014390

Electrostatic Powder Coating

Paint know-how

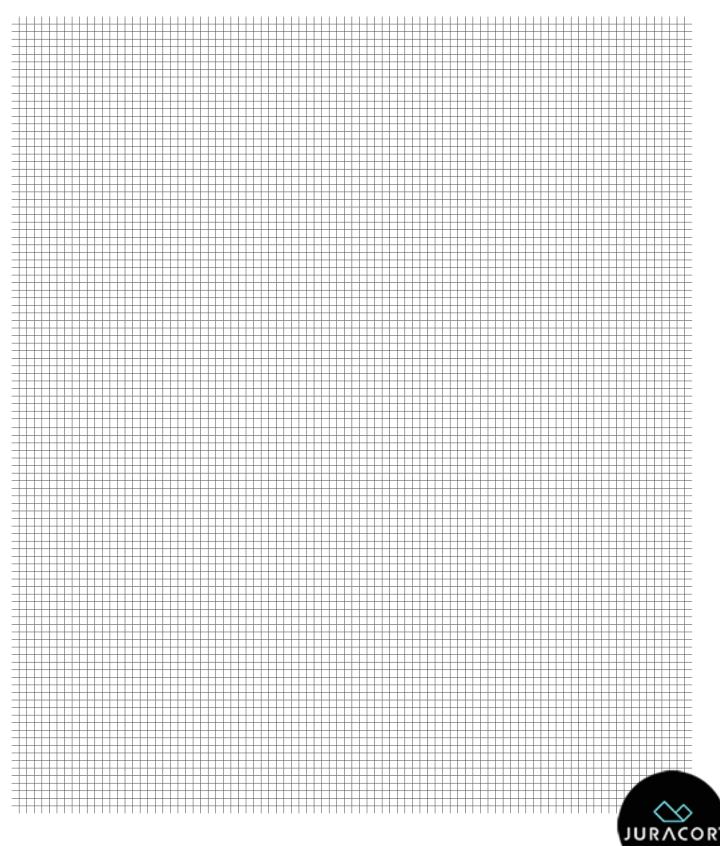
Electrostatic Powder Equipment

Control Solutions & Peripherals

Powder Systems

Tools & Accessories

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Inotransfer

The Inotransfer powder transfer pump is designed for the transport of powder paint, ideally for an automatic powder coating plant, to supply new powder to a fluidized bed tank (eg: powder feed center). It can also be used for the evacuation of recycled powder, such as hopper bottom, tank bottom, etc...

- High transport rate = 300 kg/h
- Long distance transport = 25 m
- Low air consumption
- Integrated cleaning function
- Easily handled using the trolley

TECHNICAL DATA

Designation	Inotransfer						
Quick-release coupling	Diam. 8 mm						
Inlet pressure	7 bar +/-1						
Air consumption in pump mode	450 NI/min						
Air consumption in cleaning mode	630 NI/min						
Box dimensions (W x D x H)	400 mm x 210 mm x 510 m	m					
Weight	39 kg						
Supply voltage	100 -240 VAC						
Frequency	50 - 60 Hz						
Vibrator control voltage	100 - 240 VAC single-phase						
Max. vibrator drive power	50 W						
Operating temperature	0° C - 40° C						
FLOW PERFORMANCE	^(*) USE EXAMPLE 1	^(*) USE EXAMPLE 2	^(*) USE EXAMPLE 3				
Suction hose length	4	6	6				
Ourput hose length (m)	6 25 25						
Operating cycle (s)	0.5 0.5 2						
Pression de soufflage (bar)	0.8 2 3/5						
Flow rate (Kg/min)	5.5	5	5.5				
Sleeve control pressure (bar)	4	4	5				

(*): The powder flow rate measurements are given as an indication because they depend on several parameters, suction distance, output distance, density of the powder put in motion, height difference, container, etc... Flow rate (4 m suction, 6 m output, 1m height difference) 5.5 Kg/min.

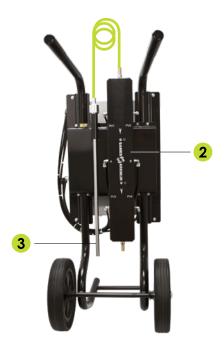


Inotransfer

DESCRIPTION

For optimum efficiency, the Inotransfer transfer pump must be installed as close as possible to the container to be drawn from and out of the explosive area. The pump must be installed vertically and the circulation of the powder must be from top to bottom. Select the operating mode (blowing or pumping) with switchs on **control module (1)**. Prior to start-up the **Inotransfer (2)**, the drawing **rod (3**) must be connected to the transfer pump by a transport hose of a length defined by the user. The suction is done from the top of the pump, the delivery is done in the lower part.





POWDER SYSTEM

Description	Mark	Part Number
Inotransfer assembly (**)	1	910029983

(**): included the inotransfer pump, the trolley, the control box, the suction rod and a powder hose (Dia.13mm - 10m)

COMPONENTS

Description	Mark	Part Number
Transfer pump only	2	910023986
Suction rod assembly (***)	3	910029984

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(***): included a pipe dia.13mm of 10 meters, allowing a connection for transport between the suction pipe and the pump inlet.



Control Solutions & Peripherals



Inotank – Inosieve – Vibrating table

The tank range Inotank has also been completely renewed. New high end materials, more flexibility with different capacities will match all needs, for laboratories, or medium size automatic solutions.

Powder feed systems come in three categories:

TANK

Each Inotank is made up of:

- A bottom equipped with a porous fluidization plate.
- A body fixed on the bottom either by means of snap fasteners or collars.
- A cover supporting the plungers, from 1 to 20 according to the model.
- A filling trap allowing to control the powder level for the 50L, 100L and 150L versions.

As an **option**, the 100 I and 150 I tank versions can be equipped with a powder level sensor:

- A low level of powder to prevent missing powder.
- A high level that allows to control the filling when it is managed automatically via a transfer pump.



Inotank 8 L. = 1 pump Inotank 50 L. = 2 pumps Inotank 100 L. = 12 pumps Inotank 150 L. = 20 pumps

SIEVING UNITS

Each **Inosieve** is designed on the basis of the **Inotank** in 100 L and 150 L versions and completed by a sieving set composed of:

- A bottom equipped with a porous fluidization plate.
- A body fixed on the bottom either by means of snap fasteners.
- A cover supporting the plungers, from 12 to 20 according to the model and a sieve body

• A sieve body equipped with an electric vibrator and a 250 micron sieve mounted on silent blocks.

- A filling trap allowing to control the powder level.
- A minicyclone to select recycled and new powder.

As an **option**, these Inosieve can be equipped with a powder level sensor:

• A low level of powder to prevent missing powder.

• A high level that allows to control the filling when it is manageautomatically via a transfer pump.



Inosieve 100 L + sieve 250 microns Inosieve 150 L + sieve 250 microns

VIBRATING TABLE

The vibrating tables allow to support containers of new powder intended to **continuously** feed distribution tanks (or Inosieve or powder feed central).

The containers, 20 kg boxes or 200 L barrel depending on the model, are vibrated in order to facilitate the flow of the powder during the pumping phase.

And another version of a vibrating table allowing to receive boxes of 20 kg with a powder suction rode equipped for use directly towards a powder projector (eg: Inogun A)



Powder feed for spraying Vibrating table for 20 kg box



Vibrating table for 20

Paint know-how

Electrostatic Powder Equipment

Control Solutions & Peripherals

Powder Systems

Tools & Accessories

TECHNICAL DATA

Designation	Inotank				Inosieve		Vibrating table	
	8 L	50 L	100 L	150 L	100 L	150 L	20 kg	200 L
Powder capacity (kg)	4	20	40	60	40	60	-	-
Diameter or length (mm)	250	390	1014	1266	1014	1266	-	-
Width (mm)	-	-	599	599	599	599	380	110
Height (mm)	465	636	1150	1150	1410	1410	703	1200
Length (mm)	-	-	-	-	-	-	530	1555
Empty weight (kg)	4	10	110	130	115	135	19	190
Maximum number of plungers	1	2	12	20	12	20	1	2
Max fluidization flow rate (Nm3/h)	1	2.1	4	5.5	4	5.5	-	-
Diameter of the fluidizing hose (mm)	8	8	8	8	8	8	-	-
Diameter of smoke exhaust duct (mm)	-	30	60	60	60	50	-	-
Vibrator supply voltage	-	-	-	-		220	VAC	
Frequency (Hz)	-	-	-	-		Į.	50	

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ATEX MARKING:

Inotank 8 LT; Inotank 50 LT; Inotank 100 LT; Inotank 150 LT (€ (20) || 3 D Ex h || C T85° C Dc

Inosieve 100 L; Inosieve 150 L 🧲 🤄 II 3 D Ex h IIIC T100° C Dc Vibrating table 20 L (€ ⊕ II 3 D Ex h IIIC T100° C Dc Vibrating table 200 L

🧲 🔄 II 3 D Ex h IIIC T120° C Dc

POWDER COATING FEED EQUIPMENT

Description	Model	Part Number
	8 L.	130002068AT
Inotank	50 L.	130002065AT
Inolonk	100 L.	910031487
	150 L.	910031488
Inosieve	100 L.	910031384
inosieve	150 L.	910031385
	for 20 kg box with a powder suction rode	910030923 (1)
Vibrating table	for 20 kg box	910029985 (2)
	for 200 L. barrel	910031737

(1): vibrating table used for feeding powder to a sprayer, a suction rod is equipped
 (2): vibrating table used for dispensing powder to another destination (eg: new powder feed for a powder feed central)

OPTION

Description	Model of sensors	Part Number
Sensor support kit	Low	910031503
	High	910031502

The detection sensors provide information on the powder level in the tank and are compatible with the Instank and Inosieve systems. In the case of automatic filling, provide the 2 models of sensors: • high level to detect maximum filling • low level to detect when the tank is empty





Powder systems

Engineering solutions

SAMES KREMLIN develops its engineering solutions closely with their customers in order to meet their specific requirements:

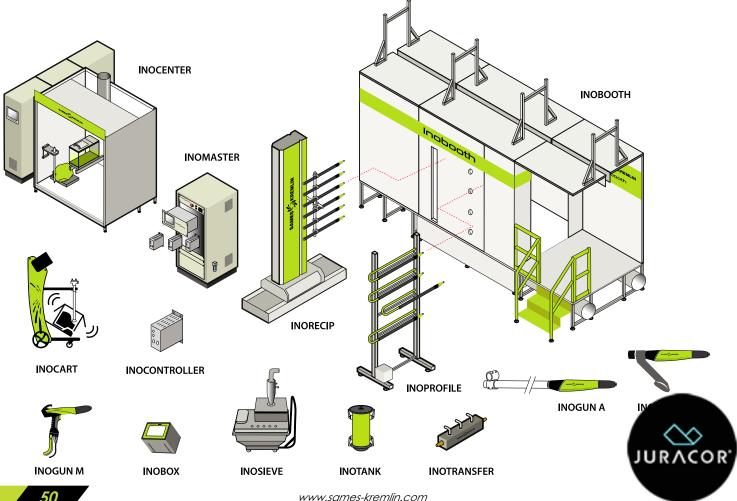
Designed and developed for each individual case, they provide precise responses to the expectations of the most demanding users: reliability, quality of application and improvement of productivity are constantly aimed for.

Quality, reliability, productivity and customer's care is what SAMES KREMLIN is deeply committed to.

SAMES KREMLIN offers a complete new **INOCOAT range** to meet all powder coating application solutions.

Powder coating booths are the synthesis of technical solutions well suited to automatic spraying.

We offer simple or modular solutions according to your requirements. This choice will be made according to your needs in terms of production rate, type of parts to be painted, frequency of color changes and number of colors required.



SAMES KREMLIN offers a **wide range** of automatic powder coating **system**:

INOBOOTH



FOR RANDOM PRODUCTION & MANY COLOR CHANGES:

• Dedicated for quick color change installations

• Modular design, assembly carried out without welding: quick installation, no skill required for welding

- Booth is small:
- quick cleaning from outside
- 100% automatic application
- Option of a platform for pre-
- touching or manual retouching on 1 side of the conveyor
- Compatible with the new Inoprofile system

PVV EasyCompact



FOR INTEGRATED PRODUCTION & INTENSIVE TOUCH-UP:

• Dedicated to meet the application of complex parts

- Booth is compact:
- quick cleaning from outside2 separated areas:
- Automatic & Manual
 Flat floor for 2 manuals areas:
- side protection fences
- Separated air flow between manual and automatic areas

PVV EasyColor



FOR INTEGRATED PRODUCTION & EASY PARTS:

- Dedicated to large parts to be painted
- Compatible with the use of a multiaxis robot
- Booth is modular:
- Designed to meet customer needs
 Access door for manual coating
- on simple parts
- Flat floor with hopper
- Very wide pieces
- Compatible for floor or overhead conveyor
- 100% automatic application and/or 1 pre-touch or 1 touch-up



Powder Systems

fools & Accessories



Booths range incorporates many shared features:

1 - BOOTH MADE FROM COMPOSITE MATERIALS

- Honeycomb structure,
- No powder build-up on walls and the bottom of the booth,
- Vertical downflow with low velocities in the paint application area for improved transfer efficiency,

• High air speeds at the level of the booth entrance and exit silhouettes to limit powder discharge outside the boot,

• Easy cleaning using compressed air,

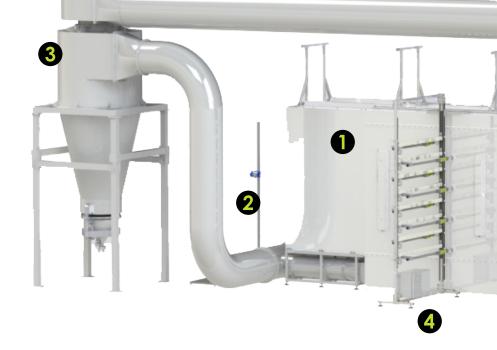
• INOBOOTH : Blowing floor for continuous recirculation of recycled powder, saving time for color changes,





• The part to be painted is scanned with two 3D shape sensors

- Optimization of gun triggers
- Adapt distance between gun and part
- High levels of application process automation
- New solutions for powdering complex objects
- Optimized coating quality and powder savings and reduced overspray



3 - CYCLONE WITH FILTER

- The cyclone/sieve set allows the recovery of powder overspray.
- High efficiency
- Continuous sleeve valve recycling
- Sieve to recover the powder:

Very efficient and durable, the perforated plate is fitted between the base of the cyclone and the sieve.

4 - QUICK COLOR CHANGE

- A compressed air network automatically cleans :
 - Powder hoses to the sprayer
 - Sprayers bodies
 - Cyclone & sieve
 - Recycled powder circuit
- Lead from main control panel
- Between 10 and 15 minutes on average



5 - CENTRAL CONTROL PANEL

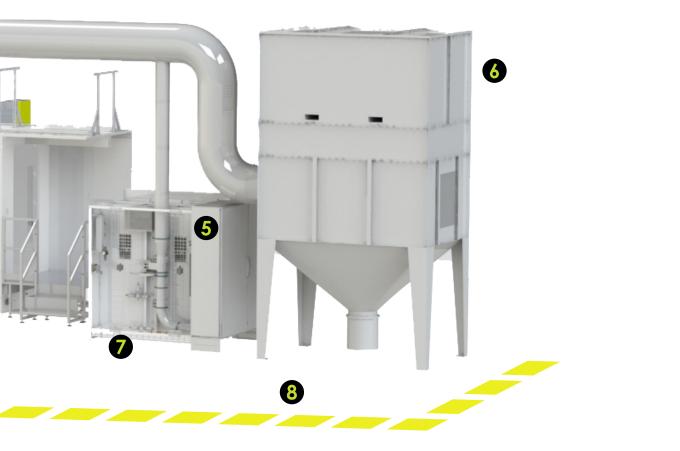
- Large touch screen for controlling the installation,
- Total production management,
- Preventive maintenance management,
- Assistance with the cleaning procedure,

• Profinet communication network between the different devices (reciprocator, detection, projector module, PLC), • Optional modem for remote connection and assistance.

6 - FILTER GROUP

It controls the quality of the air expelled either inside or outside of the workshop as required.

Its anti-clogging control system checks the water column permanently. This method preserves good speeds inside the powder coating chamber, whilst ensuring long life for the filter cartridges.



7 - POWDER FEED CENTER

- Feeding up to 24 pumps,
- Quality of the color change, 99% powder reclaimed for powder savinas,

• The same Inocenter fits all types of powder containers from 20 to 1000 kg production needs, from small batches to large campaigns,

• Automatic pump & hoses cleaning,

• Complete color change in 10 minutes: fast color change, small batch work,

• Possible retrofit on existing line,

• Reduced maintenance = no filter cartridge in the central unit and recovery of the powder lost in the general group.

8 - MODULAR DESIGN TO ANSWER ALL NEEDS

- Variable lengths and heights of our booth models (EasyCompact, EasyColor and Inobooth),
- Number of sprayers and ventilation are sized depending on project,

 Modular design, adaptive to production needs and increase.



Powder Systems

Paint know-how

Electrostatic Powder Equipment



Powder systems

Engineering solutions

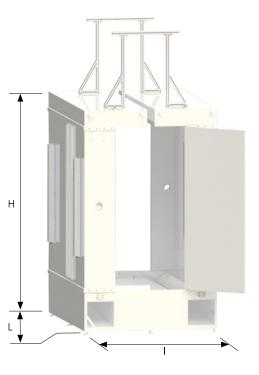
Systems of powder installation

Allows your customers to increase their productivity by modernizing their automatic powder installation. All elements which compose our different powder coating booths are independently available. You will be able to integrate them on your customer's existing line or on brand new lines.

1 - BOOTH MADE FROM COMPOSITE MATERIALS

1 need => 1 suitable model The range of powder coating booths meets a wide demand for the dimensions of parts to be painted.

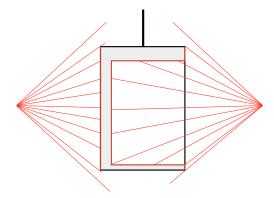
Booth		Easyco	ompact	EasyColor	Inobooth	
dimensions		Standard	Large	EusyColor	moboom	
Hoight H (mm)	Maxi.	4000	4000	4000	2500 -> 4000	
Height H (mm)	Mini.	2500	2500	2500	2500 -> 4000	
Length L (mm)	Maxi.	3850	4450	6000	2500	
	Mini.	-	-	3000	2300	
Width I (mm)	Maxi.	1700	2100	2500	2200	
	Mini.	-	-	1200	1700	



2 - PARTS DETECTION

Detection of parts to be painted by 3D laser scanner allowing shape recognition.







Parts sizes		EasyCompact & Inobooth	EasyColor
may Width (mm)	Standard	800	-
max. Width (mm)	Large	1200	1600
max. height (mm)		2500	3000

3 - EXTRACTION CYCLONE

Air/powder separator thanks to the centrifugal force ensuring a high recycling yield.

The cyclone/sieve set allows the recovery of powder overspray.

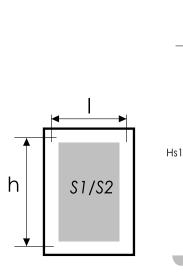
The recycling system (sleeve valves) ensures the powder transfer from the sieve to the powder center.

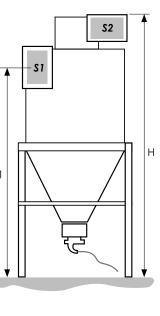
A perforated plate makes it possible to «break» the speed of arrival of the powder on the sieve and thus to prolong the life of the latter.

This determines the output of the installation.

Its form and diameter are calibrated to suit the context of the installation to guarantee very good separation performances. The built in sieving system is patented and combines fine filtration and high flow rate.







TECHNICAL DATA OF CYCLONES:

	Air flow (m ³ /h)						
	9000	12 000	16 000	20 000	24 000	28 000	32 000
« \$1 » air input section I x h (mm)	262 x 377	256 x 411	296 x 556	356 x 606	366 x 686	373 x 692	514 x 864
« \$2 » air output section I x h (mm)	400 x 298	451 x 359	505 x 402	567 x 451	643 x 512	714 x 568	741 x 602
« H » Height on frame (mm)	4110	4520	4971	5988	6184	6228	6268
« Hs1 » Height (mm)	3377	3707	3948	4938	5013	5066	5066
Frame dimensions (mm)	1360 x 1360	1465 x 1465	1610 x 1610	1830 x 1830	2010 x 2010	2210 x 2210	2410 x 2410
Weight (frame included) (kg)	660	750	860	1080	1170	1360	> 1360

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TECHNICAL DATA OF THE POWDER SIEVE AND CONTROL MODULE:

Powder flow max.	150 kg/h	
Box supply voltage	24 V - DC	
Vibrator supply voltage	380 VAC Tri	
Supply pressure	6 bar (87 psi) +/-1 bar (14,5 psi)	
Size of sieve screen 250 µm / 390 µm		



Electrostatic Powder Equipment

Tools & Accessories



Powder systems

Engineering solutions

4 - SPRAYERS BLOWING

When changing over colors, the Inogun A-FCC or Inobell can be cleaned easily, automatically and quickly with an airblowing system.

The use of an **Inorecip V** reciprocator on the horizontal axis (forward and backward) allowing cleaning, is possible with the **Inorecip H** option (refer to the Inorecip chapter on page 38).

Inoprofile solution is also equipped with a dedicated nozzle for guns cleaning optimization.

The automatic cleaning system is then controlled either by the Inomotion control module for a standard installation or with our new HMI interface from a PLC controller for Inomaster Platinium type installations.





5 - CENTRAL CONTROL PANEL

Installation control HMI (Inomaster Platinum)

- Large touch screen for controlling the installation
- 4 operating modes
- Profinet communication network between the different devices (reciprocator, detection, projector control modules, PLC)

- Production management page to allow preventive maintenance

- Assistance with the cleaning procedure
- Optional modem for connection and remote assistance



5

Paint know-how

Electrostatic Powder Equipment

Control Solutions & Peripherals

Powder Systems

Engineering solutions

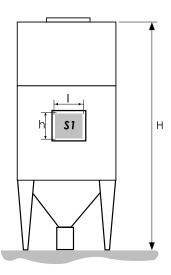
6 - FILTER GROUP

Ventilation boxes with compressed-air automatic cleaning, are especially designed for filtration and separation of powder paint. They guarantee a highly effective filtering.

Air flow provided by the filter box is comprised between 10 000 m3/h and 22 000 m3/h (to choose according to dimensions of the booth openings and the quantity of projected powder).

The filters are delivered in 3 sub-assemblies: fan block + filter block + hopper





GROUPS OF FILTRATION DATA:

		Air flow (m³/h)				
	10 000	12 000	16 000	20 000	22 000	
« S1 » air input section I x h (mm)	800 * 250	2 * 800 * 200	2 * 800 * 250	2 * 800 * 250	2 * 350 * 800	
« H » Height on frame (mm)	4108	3889	4364	4364	4177	
Frame dimensions (mm)	1475 * 1050	2000 * 1475	2000 * 1475	2000 * 1475	2000 * 2351	
Weight (kg)	1215	1580	1890	1890	2240	
Fan unit length x width x height (mm)	1561 * 1486*1153	2011 * 1486 * 1406	2011 * 1486 *1406	2011 * 186 *1406	2011 * 2362 * 1046	
Filter block length x width x height (mm)	1475*1050*2255	2000*1475*1780	2000 * 1475 * 2255	2000 * 1475 * 2255	2000 * 2351 * 1930	
Hopper length x width x height (mm)	1475*1050*703	2000*1475*703	2000 * 1475 * 703	2000 * 1475 * 703	2000 * 1930 * 841	
Number of cleaning valves	8	12	16	16	24	
Filtering surface (m2)	168	252	336	336	504	
Nominal fan power (kW)	15	22	30	37	45	
Nominal static pressure (Pa)	3600	4900	5000	4250	5650	

ATEX MARKING:





SAMES SKREMLIN

Engineering solutions

7 - POWDER FEED CENTER

5

The INOCENTER is a fast color change powder center, with a low capacity fluidized hopper feeding up to 24 guns, ideal for small batches work.

- · Complete color change in 10 minutes: fast color change, small batch work.
- Quality of the color change, 99% powder recovered: more powder savings.
- Modular design: adaptive to production needs and increase.

Without filter cartridge, there is almost no maintenance

Designed for an easy and flexible integration with the rest

Powder and energy savings have been placed at the heart

of the Inocenter development to reduce waste emission,

enhancing productivity and finish quality of the coating.

Should it be used in an advanced powder process or in

a very simple and performing powder booth, it is ideally controlled by a single panel equipped with a very friendly

operation, reducing downtime and running costs.



- 1 Powder pump
- 2 Powder tank,

1 2

3 - Vibrating table,

of the INOCOAT

- 4 New powder supply plunger
- 5 HMI (Human Machine Interface)

The Inocenter powder station is a ventilated powder dispensing enclosure allowing:

3

- Powder supply to projectors and guns (24 maximum).
- Automatic cleaning of:
 - powder pumps,
 - powder supply hoses,
 - the inside of projectors and guns,
 - powder recycling hose.
 - powder tank.

SPECIFICATIONS DETAIL FOR EACH EQUIPMENT

GUN	Inocenter
Weight (kg)	550
Height mm)	2200
Wdidth (mm)	1800
Depth (mm)	1300
Number of powder guns	24
Intermediate fluidized hopper capacity (L.)	20
Electrical power (V)	110 - 220
Maximum air pressure (bar)	7
Vibrating t	able & Tank

ATEX MARKING:

II 3 D - Ex to IIIC T100 C Do

COMPONENTS

and clear interface.

Description	Part Number
Inocenter powder station	910028183

The control unit incorporates: Control and blower terminal boards PN 910029605; Transfer pump management board PN 910028861; Ventilation duct assembly PN 910027665; Inotransfer pump PN 910023986; New powder supply sleeve valve assembly PN 910028081; Recycling sleeve valve assembly PN 910028082; Solenoid valve assembly for blowing out the tank PN 910028125; Solenoid valve assembly for distribution cleaning PN 910028124; Vibrating table PN 910024392; Tank PN 910027997; Powder pump (x24) PN 91



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ATEX zones to consider

According to 1999/92/EC Directive, the ATEX zones' definition is the responsability of the user. For information, here is an installation diagram in accordance with EN16985 standard booth system, contact **SAMES KREMLIN** for more information.

Zones are defined as follows:

1- POWDER BOOTH:

Zone 22 for the inner volume of the booth + **1 meter** around all openings. **Zone 22** inside the cabin ventilation duct

2 -POWDER FEED CENTER:

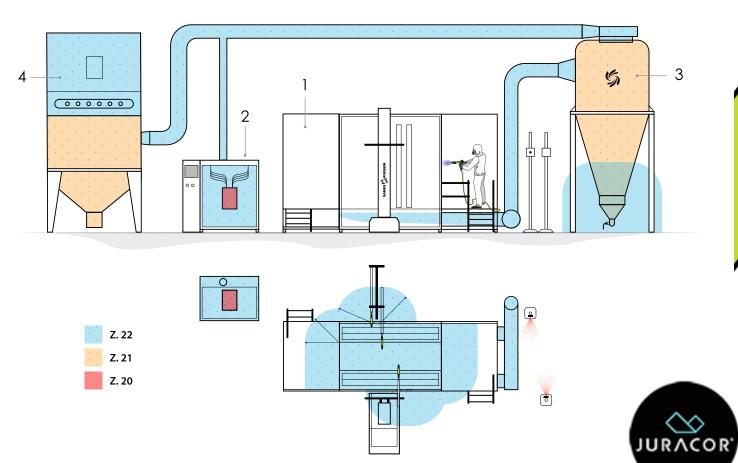
Zone 22 for the inner volume of the feed center Zone 20 for the inside of the tank

3- CYCLONE AND LINES:

Zone 22 outside the cyclone 1 meter from the hopperZone 22 inside the pipe between the booth and the cycloneZone 21 inside the cyclone and the hopper

4 - FILTER GROUP AND LINES:

Zone 22 between the cartridge and the fan motor **Zone 21** in the filtering part with the cartridges



Tools & Accessories



Powder systems

Inobooth

Productivity, compactness, ergonomics are the key words that sum up the current requirements of the surface treatment industry.

To meet these criteria and satisfy the most demanding customers, Sames Kremlin has developed Inobooth.

An automatic powder application solution designed around the booth and complementary to the Easycompact and Easycolor booths, all dedicated for quick color change installations.

Modular in design, the assembly is carried out without welding and does not involve specific skills or equipment for on-site welding.

The composite structure reduces powder retention on the side panels and roof, for a quick and pollution-free color change.

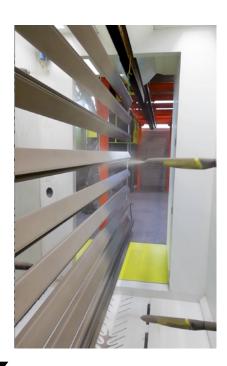
The background is continuously blown during the application phases for a regular supply of recycled powder and a saving in color change time.



Reduced air speeds in the automatic application area to maximize application yield, and high air speeds at the entry/exit silhouettes to limit powder outflow.

This cabin can be used for a 100% automatic application, equipped either with Inorecip, or with our Inoprofile solution, or mixed with Inogun A FCC and/ or Inobell.

It can be optionally equipped with an operator platform for the pre-touches upstream of the automatic structure, and/or at the exit for manual touch-ups.





FOR RANDOM PRODUCTION & MANY COLOR CHANGES



Optimise your paint line and your production !

EasyCompact can be integrated quickly and easily into new or existing installations; its compact size means that it may be commissioned very quickly.

Its performances for changing over colors will increase your coating productivity significantly, as well as that of the rest of your production, provided that the stages prior to the booth (assembly of parts, surface treatment) and after the booth (hoven) allow it!

The booth gives access to 2 manual rework stations, either BEFORE OR AFTER the automatic station.

Changing over colors becomes quick and easy. The booth is cleaned from the outside, there is no need to go inside it once the manual and double doors have been closed.



PVV EasyCompact

FOR INTEGRATED PRODUCTION & INTENSIVE TOUCH-UP

The air flow passes under the floor along the length of the booth through a central opening. This design permits a homogeneous flow inside the booth that satisfies the application and cleaning criteria.

The design of the booth, thanks to its flat floor in the manual zone and the internal separation deflectors, permits the operator to enter sufficiently inside the booth for more ergonomic and cleaner use in production. These deflectors are covered by a patent by **SAMES KREMLIN**, and can be oriented to facilitate cleaning from the outside of the booth.

The two manual powder coating stations and the output area are equipped with swing doors and permit, when closed, a reduction of the opened surfaces of the booth and therefore to increase the air speeds to limit the powder outputs during cleaning operations.







Powder systems

PVV EasyColor

The PVV Easycolor booth is fully modular and great flexibility.

Its composite structure allows colors to be changed over very quickly (10 to 15 min). The PVV Easycolor system ensures a finish that meets your expectations for industrial requirements.

- Manual and ventilated access to work stations
- Vertical ventilation
- Automatic cleaning function using a pressurised air system that carries out the cleaning:
 - venturi feed pumps.
 - powder hoses and inside of sprayers.
 - a reclaim powder hose.
- The external cleaning of the sprayers is carried out inside the booth
- Flat base that facilitates access for cleaning and maintenance operations
- The central powder supply unit Inocenter is fully automated
- The control cabinet Inomaster Platinum equipped with a color touch screen
- Cyclone with integral sieve and filter preventing the powder from polymerisation





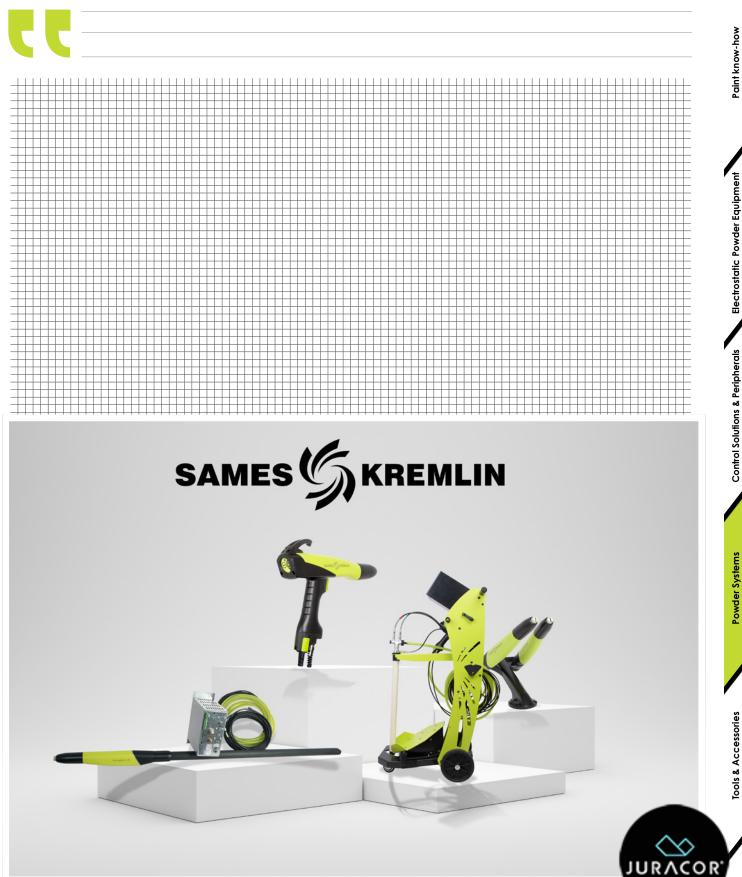
FOR INTEGRATED PRODUCTION & EASY PARTS





Electrostatic Powder Coating

Powder systems









Measuring device High voltage probe

- EASY TO READ DISPLAY: 4 1/2" digit display
- PORTABLE: Protected by a foam lined aluminum case
- FACTORY CALIBRATED: HVP500 is calibrated to NIST standards

HVP500 is a precision high voltage probe designed to measure DC voltages up to 100 KV.

HVP500 consists of a removable probe containing high voltage resistors and a 4 1/2" digit display.

The probe resistors are very high resistance to minimize loading of the high voltage being measured.

The removable probe screws into the hand-held base and comes with 2 removable ips - including a ball and a cone.

This portable hand-held unit comes in a foam lined aluminum case that is lockable.



UTILISER EN

Not for use in hazardous location.

TECHNICAL DATA

Description	Reference
Voltage	0 to ± 100 KV
Accuracy	± 0.1%
Resistance	10 G ohm ± 5%
Stability	100 ppm/ °C
Weight	1 lbs. 11 oz.

Description	Reference
HVP 500	220000326



64

AS100



Powder fluidity measuring equipment

- Instant and accurate result
- Easy and ready to use
- Reference equipment for powder development laboratories

PERFORMANCE

• Accurate and quick measurement of the fluidity and of the ability of the powder to be fluidized

Compact

PRODUCTIVITY

- Helps determine the powder spraying parameters
- Quality management of powder batches

SUSTAINABILITY

• Easy to clean

• Saves time for the comissioning of new powder paint facilities and/or new colors in the process

USE

The powder is placed in suspension in the porous-bottomed cylinder, by means of a controlled air flow. Successively the height of fluidised powder bed is measured, in the fluidised state (H1), then the height at rest (H0) and the weight (P) of the fluidised powder that flows 30 s through the calibrated opening. It is thus possible to define a "projectability" factor, a characteristic of the powder:

$R = P \times (H1 / H0)$

For information, for epoxy powders with a density between 1.3 and 1.6, experience shows that results in function of R are as follows:

Rating
Very good
Good
limited
Poor

The AS100 fluidimeter demonstrates this behaviour and indicates immediately whether a powder is suitable for spraying purposes. It is a valuable aid in product quality control for both powder paint manufacturers and other laboratories. This is the first electrostatic powder coating apparatus to be covered by a registered French standard (T 30 A doc 396).

TECHNICAL DATA

Description	Reference
Min. feed pressure (bar)	1
Maximum air flow (I/h)	500
Air inlet connector	fluted ø4 mm
Weight (kg)	5

Descrition	Reference
Fluidimeter A\$100	451195

Warning:

the operator must collect a sample of pain it in a non hazardous location.

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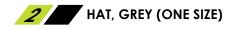


Tools & Accessories

Operators accessories



Size "S" to "XXL". Grey. Extremely sturdy, recommended for liquid paint. Contamination limited, reduced risk of electrostatic charge accumulation.









Meets European standard EN-149-2001, class FFP2. Provides protection only from wearer from mechanically and hermally produced particulates. May be used to protect against concentrations up to 10 times the Average Exposure Value (AEV), Belgium upper limit (VLB).



Complies with European standard EN 405:2001. Protection against most vapours/gases and particles such as: • Inorganic vapours and acid gas, up to 1000 ppm or 10 x VME/VLB, taking the lowest of the 2.

Particles up to 50 x VME/VLB









Operators accessories



GLOVES - NITRILE RUBBER (ONE SIZE)

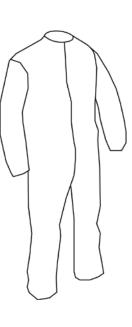
Provide protection against numerous chemicals such as alcohols, aromatic and chlorinated solvents (within the provisions of the chemical resistance chart). Complies with European 89/686/CEE Directive.





LIGHT PROTECTION COVERALL (ONE SIZE)

Woven paper overall very sturdy. The use of overalls is recommended to protect against micro-particles, splashing and spray dust, depending on the degree of toxicity of the products and working conditions. Complies with European EN 13982/1 and EN 13034 standards. Certified types 5 and 6.



N°	Reference
	(S) W5GMAS059
	(M) W5GMAS060
1	(L) W5GMAS061
	(X L) W5GMAS062
	(XXL) W5GMAS063
2	W5GMAS070
3	W5GMAS071# (x10 qt)
4	W5GMAS018 (x10 qt)
5	W5GMAS035
6	W5GGAM039
7	W5GMAS024

N°1: Anti-static work-suit, size S, M, L, XL, XXL



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Electrostatic Powder Coating

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Bond | Protect | Beautify

With our manual guns, automatic and robotic applicators, supplied by our wide range of pumps & machines for fluid handling, dosing, mixing & dispensing. **SAMES KREMLIN** provides industrial solutions for production increase, quality improvement, material & cost savings.

We are designers and manufacturers of process equipment that is divided into 6 ranges:

Airspray: Since1925, we have been an Airspray manufacturer bringing you the very best in finishing.

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