

*Experts in Finishing and Dispensing Solutions*



**Complete Line of  
Manual Electrostatic  
Powder Coating  
Solutions**

- **Powder Hose Rotating Connector**
- **Integrated Controls**
- **New Nozzles**
- **Ergonomic Design**
- **Quick Release Powder Hose Coupling**
- **Quick Color Change**
- **Hopper Feed unit**

# Manual Powder Coating Equipment

**e-Jet, Mach-Jet and E-Series Powder coating equipment combines economy and efficiency**

**MACH-JET**  
DPCS Digital Preset Coating System

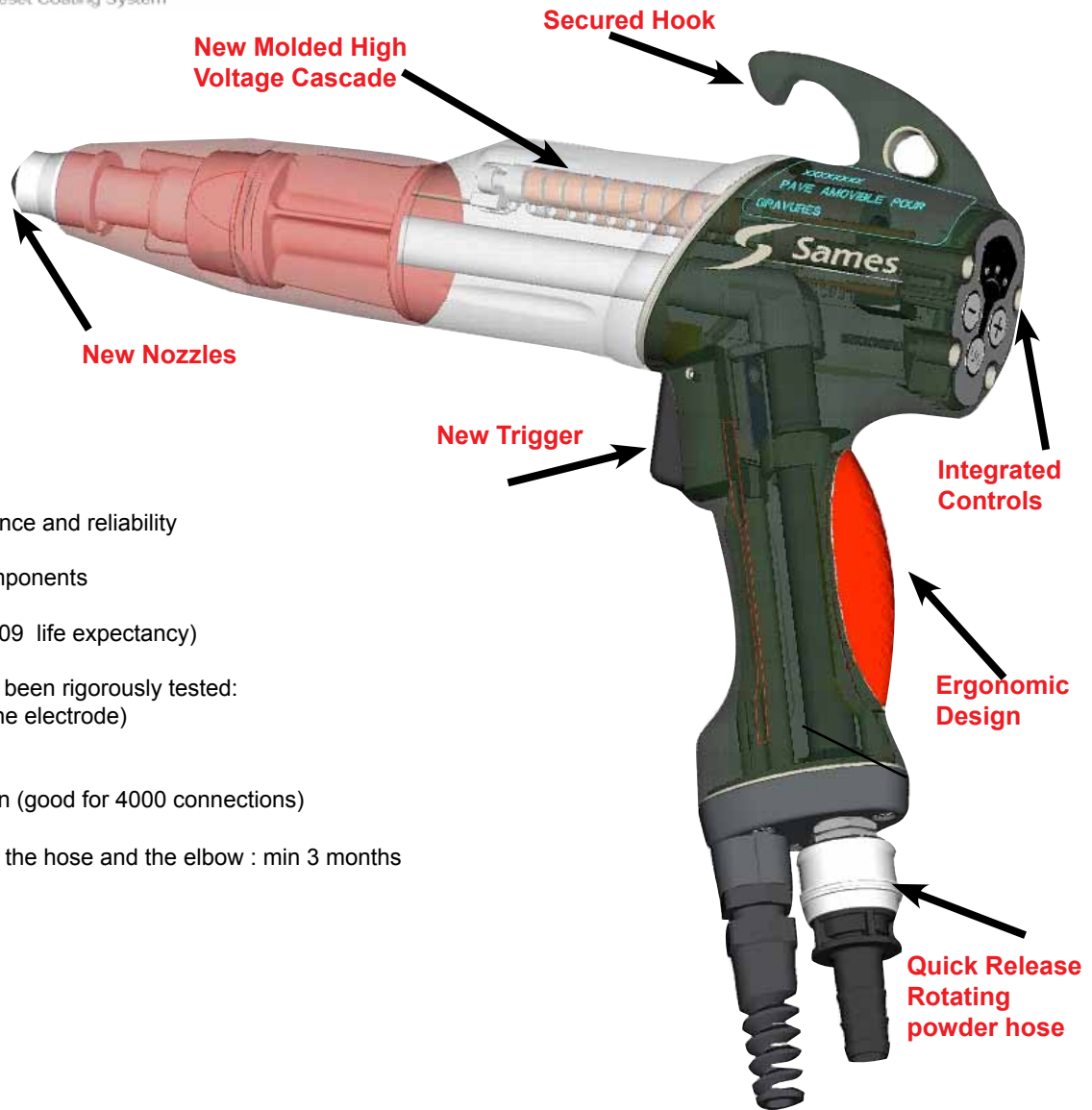
 **Sames**

# MANUAL ELECTROSTATIC POWDER COATING



The new Sames Mach-Jet powder coating solution consists of the new Mach-Jet Gun which is driven by the CRN 457 control module (specially dedicated) and mounted on the E-Jet Hopper.

- New High Voltage (HV) cascade: Electrical design simplified for extreme reliability. The High Voltage Unit is integrally molded into the barrel.
- The transformer is of the same design as used in the MIV6600: which delivers the same performance and reliability
- Excellent isolation of the HV components
- Hall-effect trigger ( confirmed >109 life expectancy)
- Each “technical” component has been rigorously tested:
  - nozzle (robustness of the electrode)
  - trigger
  - cascade
  - powder hose connection (good for 4000 connections)
  - powder tube
  - no deposit of powder in the hose and the elbow : min 3 months



## GUN SPECIFICATIONS

Round Spray Nozzle	Ø 12 mm	Ideal for small parts, touch-up, pre-touch or for difficult areas
	Ø 16 mm (STANDARD)	Ideal for all kind of parts, particularly for coating large flat surfaces, tubular furniture and wired pieces.
	Ø 20 mm	Ideal for all large parts
Fan Nozzle Spray	Narrow	Touch-up and re-touch
	Medium (STANDARD)	Very versatile : excellent penetration into recesses, hollows, fan furniture. Ideal for job coaters (all type of parts, various shapes). Distance of application can be long if necessary.
	Large	Avoids blowing off the powder from the part. Distance of application can be short if necessary. Good adaptation on fencing, welded junctions and on fan and large parts.
Extension	150 mm and 250 mm version	Ideal for coating voluminous and complex-shaped parts. Permits coating inside of the volume (tubular parts, hollows, etc....)

# MANUAL ELECTROSTATIC POWDER COATING

## POWDER COATING WITH FAST CLEAN



e-Jet from Sames the leader in powder manual coating equipment. Ergonomic, reliable and outstanding performance, e-Jet is the combination of the best of Mach-Jet & E-series technologies.

It has been specially designed for companies looking to improve their powder coating application and the overall efficiency of the operator.

The brand new powder coating Mach-Jet Gun associated to its control module CRN 457 and integrated Digital Pre-set Coating System. (DPCS) exclusive system provides an optimum charge to powder. Operator selects easily the coating program adapted to different shapes of the parts, which secures a perfect quality of finish and helps achieving powder savings.

"Fast Clean™" or purging modification that helps purge the pump, hose, and gun more quickly and efficiently. This modification is attached to the bottom of the cart and helps force compressed air through the hose to clean the gun.

"Fast Clean™" come standard on the Mach-Jet Easy units in North America.



## CRN 457 CONTROL MODULE

- Powder flow adjustment: 12 pre-set, one neutral
- Additional adjustment of the dilution air (applied to all pre-set powder flows)
- Should there be pulsations, adjusts the speed of the powder
- 4 pre-set U&I combinations
- 4 combo adjustments (U&I)
- History of the faults
- Screen adjustment (contrast)
- Choice of the style of equipment (vibrating table or hopper)
- Reading of U&I during operation



### Display:

5.2" x 1.5" (132 x 39 mm) screen, with back lighting and 4 buttons on face offering various functionality

Part Number	Description
910008653	E-Jet System, Box Feed, 19.7 ft. (6 meter) cables
910008655	E-Jet System, Box Feed, 39.4 ft. (12 meter) cables
910008657	E-Jet System, Dual Box Feed, C/W, (1) 12M Gun & (1) 6M Gun
910008311	E-Jet System, Hopper Feed, 19.7 ft. (6 meter) cables
910008312	E-Jet System, Hopper Feed, 39.4 ft. (12 meter) cables
910008313	E-Jet System, Dual Hopper Feed, C/W, (1) 12M Gun & (1) 6M Gun
1523297	CRN-457 Control Module
1524463	Gun, Powder, Mach-Jet, CW 19.7 ft. (6 meter) cables
7009010	Mach Jet Gun + CRN-457 Module
1524463-12	Gun, Powder, Mach-Jet, CW W/ 39.4 ft. (12 meter) Cable
1524465	Cable Assembly, Mach-Jet, 19.7 ft. (6 meter)
1526699	Cable Assembly, Mach-Jet, 39.4 ft. (12 meter)

Marking for Mach-Jet gun:

0080 II 2 When configured according to #80000045  
 ISSeP04ATEX119  
 EEx 2 mJ  
 For Electro.Fin.Appl.CL.II, Spray Matl.

Marking for CRN 457 <sup>(1)</sup>:

(1) : this control module is the only one allowing the manual powder paint set Mach-Jet to be ATEX certified. Installation outside from the explosive area.

0080 II (2) D   
 ISSeP04ATEX119  
 [EEx 2 mJ]





# MANUAL ELECTROSTATIC POWDER COATING

## E-SERIES HOPPER FEED SYSTEM

Incorporates "TOTAL ENERGY CONTROL" charging system, featuring advanced dual functions.

### TEC 1

Features operator adjustment of voltage up to a maximum of 85 kV, with a 50  $\mu$ A threshold and is recommended for the majority of standard powders and applications.

- Maximizes efficiency of charging
- Excellent deep recess penetration
- Smooth powder lay down even at high film build
- Unrivalled re coatability

### TEC 2

Has an operator adjustment of current up to a maximum threshold of a 100  $\mu$ A and is designed specially to cater for application of difficult to spray metallic powders.

- Discharge current and voltage are indicated simultaneously on LED bar graphs
- Color changes in seconds – simply un-clip the venturi, remove the suction tube and blow clean.
- Vibrating Chassis – mounted at an angle in two planes so that powder is extracted from the lowest point ensuring maximum powder utilisation.
- High efficiency turbine vibrator activated only on triggering of gun to minimise powder compaction.
- Accepts all popular powder containers up to 30kg (66 lbs).
- Controlled venturi support arm simply lifts clear to a park position for fast box replacement when changing color.
- Can be supplied as either a single or double operator unit.
- Operator friendly - simple to use with light weight spray gun.
- Ergonomic design.
- Compliant with USA standards and regulations.



Part Number	Description
5008002/S	E-Series System, Hopper Feed



### TECHNICAL SPECIFICATION

E-series Hopper feed Manual unit

#### ELECTRICAL DATA :

Input Voltage 100 - 260 Volts, 50/60 Hz, Single Phase.  
 Power Consumption (Full Load): 45 VA.  
 Input Current (Max):  
 400 mA. at 115 V, 200 mA at 230 V.  
 Electrostatic Output Voltage:  
 10 - 85 kV. Negative (Max).  
 Electrostatic Output Current:  
 Mode 1; 0 - 50  $\mu$ A. Mode 2; 0 - 100  $\mu$ A.

#### PNEUMATIC DATA :

Input Air Pressure: 7.0 Bar (100 p.s.i.) maximum  
 Input Air Conditioning:  
 Oil Free to 0.1 p.p.m. and dry to 1.3g/cubic Nrm  
 Air Consumption Nominal:  
 15.0 cubic m/h. (9.0 cfm)  
 Input Connection :  
 Manual Units 1/4 BSPMP air fitting

#### WEIGHTS & DIMENSIONS:

Packed Weight: 40 kgs.  
 Packed Dimensions: 72 cm x 51 cm x 106 cm.  
 Total Packed Volume: 389 m3  
 Manual Spray Gun: 495 g (17.5 ozs) without cables & hoses



# MANUAL ELECTROSTATIC POWDER COATING

## E-SERIES BOX FEED SYSTEM

Incorporates "TOTAL ENERGY CONTROL" charging system, featuring advanced dual functions.

### TEC 1

Features operator adjustment of voltage up to a maximum of 85 kV, with a 50  $\mu$ A threshold and is recommended for the majority of standard powders and applications.

- Maximizes efficiency of charging.
- Excellent deep recess penetration.
- Smooth powder lay down even at high film build.
- Unrivalled recoatability.

### TEC 2

- Has an operator adjustment of current up to a maximum threshold of a 100  $\mu$ A and is designed specially to cater for application of difficult to spray metallic powders
- Discharge current and voltage are indicated simultaneously on LED bar graphs
- Color changes in seconds – simply un-clip the venturi, remove the suction tube and blow clean.
- Vibrating Chassis – mounted at an angle in two planes so that powder is extracted from the lowest point ensuring maximum powder utilisation.
- High efficiency turbine vibrator activated only on triggering of gun to minimise powder compaction.
- Accepts all popular powder containers up to 30kg (66 lbs).
- Controlled venturi support arm simply lifts clear to a park position for fast box replacement when changing color.
- Can be supplied as either a single or double operator unit.
- Operator friendly - simple to use with light weight spray gun.
- Ergonomic design.
- Compliant with USA standards and regulations.



Part Number	Description
5009002/S	E-Series System, Box Feed



## TECHNICAL SPECIFICATION

E-series Box feed Manual unit

### ELECTRICAL DATA :

Input Voltage 100 - 260 Volts, 50/60 Hz, Single Phase.  
 Power Consumption (Full Load): 45 VA.  
 Input Current (Max):  
 400 mA. at 115 V, 200 mA at 230 V.  
 Electrostatic Output Voltage:  
 10 - 85 kV. Negative (Max).  
 Electrostatic Output Current:  
 Mode 1; 0 - 50  $\mu$ A. Mode 2; 0 - 100  $\mu$ A.

### PNEUMATIC DATA :

Input Air Pressure: 7.0 Bar (100 p.s.i.) maximum.  
 Input Air Conditioning:  
 Oil Free to 0.1 p.p.m. and dry to 1.3g/cubic Nrm  
 Air Consumption Nominal:  
 15.0 cubic m/h. (9.0 cfm)  
 Input Connection :  
 Manual Units 1/4 BSPMP air fitting.

### WEIGHTS & DIMENSIONS:

Packed Weight: 40 kgs.  
 Packed Dimensions: 72 cm x 51 cm x 106 cm.  
 Total Packed Volume: 389 m3  
 Manual Spray Gun: 495 g (17.5 ozs) without cables & hoses.



# Experts in Finishing and Dispensing Solutions

## EXEL North America Inc.

North American HQ  
45001 5 Mile Road  
Plymouth, MI 48170  
Tel: (734) 979-0100  
Fax: (734) 927-0064

## EXEL North America Inc.

Canadian Branch  
931 Progress Ave. Unit 7  
Scarborough, Ontario  
M1G 3V5  
Tel: (416) 431-5017  
Fax: (416) 431-9171

## EXEL-NA, S.A. de C.V.

Acceso III N°16A Int 15A  
Conjunto Quadrum  
Parque Industrial Benito Juárez  
Santiago de Querétaro, Qro.  
México, C.P. 76120  
Tel: +52 (442) 161 2595

### • FRANCE

SAMES Technologies  
B.P. 86 - 13 Ch. de Malacher - Inovallée  
38243 Meylan Cedex - FRANCE  
Ph: +33 476 41 60 60  
Fax: +33 476 41 60 90  
www.sames.com

### KREMLIN-REXSON

B.P. 39 - 150 Avenue de Stalingrad  
93245 Stains Cedex - FRANCE  
Ph: +33 149 40 25 25  
Fax: +33 148 26 07 16  
www.kremlin-rexson.com

### • GERMANY

EXEL LACKIER GMBH  
Moselstrasse 19  
41464 Neuss  
Ph: +49 / (0) 2131 / 36922-00  
Fax: +49 / (0) 2131 / 36922-22

### • ARGENTINA

KREMLIN S.A.  
Juan B. Justo 6021  
CP 1407 - Ciudad de Buenos Aires  
Ph: 54 / 11 4582 8975 / 8980  
Fax: 54 / 11 4584 6677

### • BRAZIL

EXEL INDUSTRIAL e.p.e Ltda.  
Avenida Luiz José Sereno, 1200 - Pq. Eloy Chaves  
CEP 13212-210 - Jundiaí - São Paulo  
Ph: 55 / 11 4581 6304  
Fax: 55 / 11 4582 0068  
www.exel-industrial.com

### • CHINA

EXEL INDUSTRIAL CHINA  
755 Lian Hua South Road Factory, n°4  
SHANGAI 201 100 P.R.  
Ph: 86 (0) 21 54 38 6060  
Fax: 86 (0) 21 54 38 6090

### • SPAIN

EXEL INDUSTRIAL e.p.e., S.A.  
C/Botánica, 49 - 08908 L'Hospitalet - Barcelona  
Ph: 34 / 932 641 540  
Fax: 34 / 932 632 829

### • UK

EXEL INDUSTRIAL UK LTD  
Unit 4, Lockflight Buildings Wheatlea  
Industrial Estate - WN36XR - Wigan Lancashire  
Ph: 44 / 1942 82 9111  
Fax: 44 / 1942 82 04 91

### • INDIA

EXEL GLOBAL COATING EQUIPMENT INDIA  
PL-13 Extension office, Ground Floor, Gate n°8  
Godrej Boyce Complex Pirojsha Nagar  
VIKHOROLI 400079  
Ph: 91 (0) 22 560 49948  
Fax: 91 (0) 22 559 75585

### • ITALY

KREMLIN-REXSON Spa  
Via Brunelleschi 16 - 20146 Milano  
Ph: 39 0248952815  
Fax: 39 0248300071

### • POLAND

KREMLIN POLSKA SP ZO O  
Ul. Pomorska 31 A - 03 - 101 WARSZAWA  
Ph: 48 / 22 81 41 769  
Fax: 48 / 22 81 41 968

### • PORTUGAL

EXELUSA INDUSTRIAL e.p.e, Lda  
Rua Professor Abílio Alves de Brito, n°88  
POUSOS - 24210 LEIRIA  
Ph: 351 / 244 84 82 20  
Fax: 351 / 244 84 82 29  
www.exel-industrial.com