



**EXEL**<sup>®</sup>



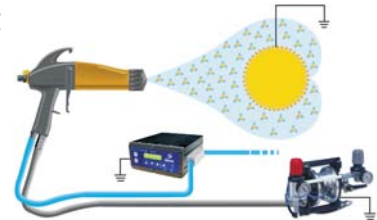
Manual Electrostatic Catalog

# ELECTROSTATICS

2

## The Power of Electrostatics

Electrostatic spray is the application of negatively charged ions to paint particles. The negative charge attracts the paint particles to a grounded part which increases the transfer efficiency and reduces material waste. Electrostatic application technology is often found in high production environments which can justify the increased capital investment.



### Features and Benefits of Electrostatic Technology

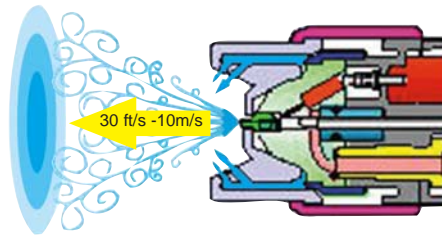
- Outstanding Finish Quality** The negative charge on the paint disperses the paint particle into a wider spray pattern that is extremely uniform.
- Increased Productivity** More surfaces covered per pass resulting in more production on the paint line.
- Paint Savings** Electrostatics deposit 20 to 40 percent more paint on the part due to the wrap around effect and provides a more uniform finish coat with higher finish quality.
- Reduced Booth Maintenance** Placing more paint on the parts results in less paint overspray which can accumulate on the painter, floor, walls, and filters. This means there will be lower maintenance costs and a cleaner environment for the operators.
- Improved Environment** Higher transfer efficiencies lower VOC emissions which harm the ozone layer by reducing the amount of coatings required to coat parts.



# ELECTROSTATICS

## Gun Selection

### Conventional Fan - For Class "A" Finishes



AIRCAP AIR PRESSURE  
15 - 25 psi / 1 - 2 bar

FLUID PRESSURE  
0 - 60 psi / 0 - 4 bar

TYPICAL COST OF AIR (GUN)  
12 cfm / 20.4 m<sup>3</sup>/h ≈ \$200/yr

TYPICAL APPLICATIONS:

MIV6600



For Solvent Based Coatings

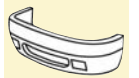
See Pages 6 - 7 For Details

KMP H<sub>2</sub>O



For Water Based Coatings

See Page 10 For Details



TIER 1 AUTOMOTIVE



AEROSPACE



OFFICE FURNITURE



APPLIANCES



\* TE - Transfer Efficiency

\*\* Savings = Material and cost savings compared to non-electrostatic conventional spray technology

# ELECTROSTATICS

## Gun Selection

### Conventional Vortex - For Narrow Parts

**TYPICAL APPLICATIONS:**

- FINISH QUALITY
- PRODUCTIVITY
- PATTERN ADJUSTMENT
- TE\*
- SAVINGS\*\*

**AIRCAP AIR PRESSURE**  
15 - 25 psi / 1 - 2 bar

**FLUID PRESSURE**  
0 - 60 psi / 0 - 4 bar

**TYPICAL COST OF AIR (GUN)**  
12 cfm / 20.4 m<sup>3</sup>/h ≈ \$200/yr

**VORTEX**

**TIER 2 AUTOMOTIVE**

**BICYCLE / MOTORCYCLE**

**FENCING / GRATING**

**WOOD FURNITURE**

**OFFICE FURNITURE**

**SMALL PARTS**

### HVLP Fan - For Low Flow Rates

**FINISH QUALITY LOW FLOW RATES**      **FINISH QUALITY HIGH FLOW RATES**

- PRODUCTIVITY
- PATTERN ADJUSTMENT
- TE\*
- SAVINGS\*\*

**AIRCAP AIR PRESSURE**  
10 psi / 0.7 bar

**FLUID PRESSURE**  
0 - 60 psi / 0 - 4 bar

**TYPICAL COST OF AIR (GUN)**  
22 cfm / 30.6 m<sup>3</sup>/h ≈ \$367/yr

MIV6600 (Vortex)



**For Solvent Based Coatings**  
**See Pages 6 - 7 For Details**

MIV6600 (HVLP)



**For Solvent Based Coatings**  
**See Pages 6 - 7 For Details**

\* TE - Transfer Efficiency

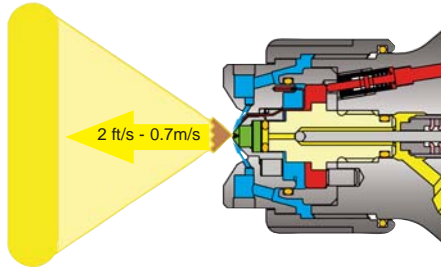
\*\* Savings = Material and cost savings compared to non-electrostatic conventional spray technology

# ELECTROSTATICS

## Gun Selection

### Airmix® - The Most Efficient Manual Gun In The World

- ← FINISH QUALITY
- ← PRODUCTIVITY
- ← PATTERN ADJUSTMENT
- ← TE\*
- ← SAVINGS\*\*



**AIRCAP AIR PRESSURE**  
5 - 15 psi / 0.3 - 1 bar

**FLUID PRESSURE**  
300 - 2900 psi / 20 - 200 bar

**TYPICAL COST OF AIR (Gun & Pump)**  
5 cfm / 8.5 m<sup>3</sup>/h ≈ \$80/yr

TYPICAL APPLICATIONS:

KMX3



For Solvent Based Coatings

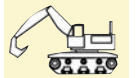
See Pages 8 - 9 For Details

KMX H<sub>2</sub>O

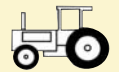


For Water Based Coatings

See Page 10 For Details



CONSTRUCTION EQUIPMENT



AGRICULTURAL EQUIPMENT



AEROSPACE



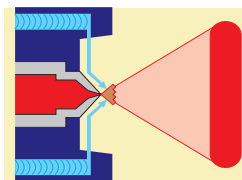
OFFICE FURNITURE



FENCING / GRATING

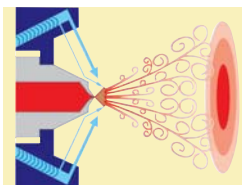


WOOD FURNITURE



#### Airmix®

With the precision engineered Kremlin tip and aircap, atomization air is blended with the fluid at the locus of atomization, which delivers a very controlled balanced spray that produces a uniform build and outstanding efficiency.



#### Air-Assisted Airless

With competitive tips and aircaps, air is injected directly into or beyond the locus of atomization. This creates excessive turbulence, overspray, coarse particles, and a very uneven film build which may require additional finishing steps.

\* TE - Transfer Efficiency

\*\* Savings = Material and cost savings compared to non-electrostatic conventional spray technology



# CONVENTIONAL, VORTEX OR HVLP MANUAL ELECTROSTATIC GUN

6

## MIV6600



**The Sames MIV6600 is the lightest manual gun in the industry that uses modern electronics. It combines superb operator comfort with outstanding finish quality. The MIV6600 is most often used in high production settings where high flowrates are required.**

### SPECIFICATIONS

Gun Length:	12" / 305 mm
Gun Weight:	22 ounces / 625 grams
Max. Output Voltage:	60 kV
Max. Air Pressure:	90 psi / 6 bar
Max. Air Consumption:	Fan = 25
Vortex:	14 cfm / 23 m <sup>3</sup> /hr
Conventional Fan:	15 cfm / 25 m <sup>3</sup> /hr
HVLP Fan:	22 cfm / 37 m <sup>3</sup> /hr
Max. Fluid Pressure:	90 psi / 6 bar
Max. Temperature:	140° F / 60° C
Air Inlet Fitting:	1/4" M NPS (Warning: Use Special Hose/Cable combination only)
Fluid Inlet Fitting:	3/8" M NPS (Use grounded Fluid Hose Only)
Trigger Assembly:	2 finger standard, 4 finger optional
Wetted Parts:	Plastic and Stainless steel
Material Sprayed:	Virtually all fluid materials

#### FEATURE

- Gun cable and hose detach at gun handle\*
- Lightest Cascade gun in the industry
- Vortex, HVLP and fan spray
- Highest loaded voltage in the industry

#### BENEFIT

- Allows for quick gun changes and easy maintenance
- Reduces operator fatigue and potential injuries from extended use
- Will adapt to changing environments
- Delivers the highest transfer efficiencies for conventional guns

\* On MIV6600.1 for solvent based coatings with low resistivity only.

# CONVENTIONAL, VORTEX OR HVLP MANUAL ELECTROSTATIC GUN

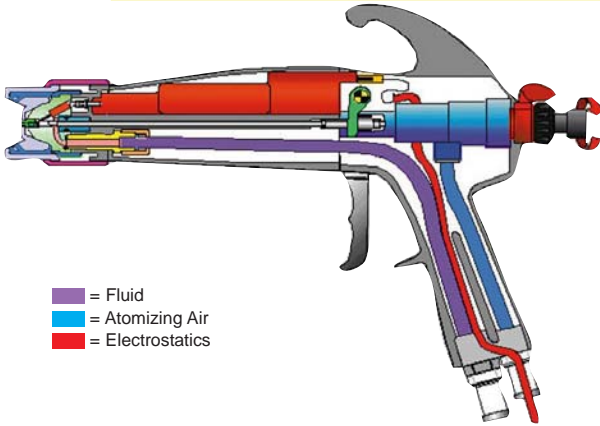
## MIV6600 FEATURES

### Certifications and Approvals

The MIV6600 gun is FM Approved in the USA and CE and EX Certified for Europe.

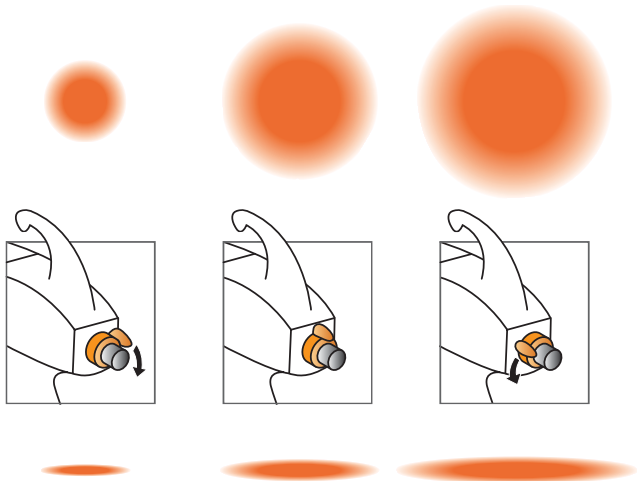


### System Configuration



### Time Saving Adjustments

While spraying, the operator can simultaneously adjust the pattern size and paint flowrate to maintain on-the-go optimum spray performance.



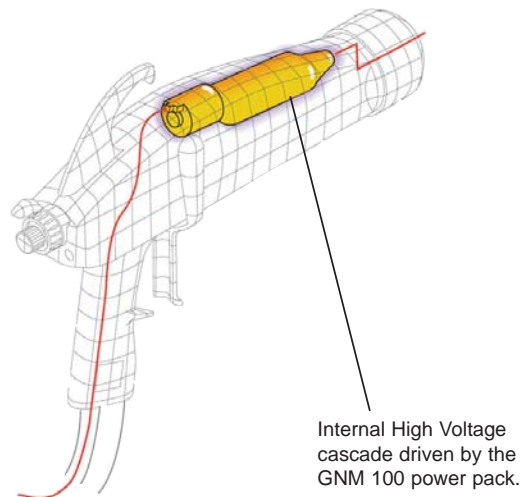
### Outstanding Ergonomics

Its lightweight, easy 2 or 4 finger trigger pull, excellent balance and combined cable and air hose assembly makes the MIV6600 the gun of choice by operators that need full voltage performance.



### Leading Edge Electronics for Safety and Performance

The MIV6600 uses the latest in electronic technology. The combination of a low voltage, non-sparking cable and integrated cascade, delivers excellent safety for the user while delivering the highest loaded voltage in the industry.



# AIRMIX® MANUAL ELECTROSTATIC GUN

8

## KMX3



The KMX3 uses our proprietary Airmix® technology to deliver the highest production line transfer efficiencies in the world. Nothing Compares™ to Airmix®. This gun is used in thousands of general industrial applications throughout the world.

### SPECIFICATIONS

Gun Length:	11" / 280 mm
Gun Weight:	1.75 lbs / 795 grams
Max. Output Voltage:	85 kV
Max. Air Pressure:	100 psi / 6.5 bar
Air Consumption:	3 cfm / 5 m <sup>3</sup> /hr
Max. Fluid Pressure Range:	1450 psi / 100 bar 2250 psi / 155 bar w/129-274-700 kit)
Max. Temperature:	140° F / 60° C
Air Inlet Fitting:	1/4" M NPS (Warning: Use conductive hose only)
Fluid Inlet Fitting:	#5 M JIC
Trigger Assembly:	2 finger standard
Wetted Parts:	Plastic, carbide, stainless steel
Seal Kit Number:	129.270.094
Standard Repair Kit:	129.274.350 (Includes cartridge, KX16 Aircap, seat with seal and needle)
Materials Sprayed:	Virtually all fluid materials
Recommended Air Hose Dia:	1/4" / 6.35 mm ID

(1) All KMX3 guns come standard with 09-13 Tip

For the electrostatic Airmix® tip selection chart, refer to page 18 of this catalog

FEATURE	BENEFIT
<ul style="list-style-type: none"> <li>• Uses Kremlin unique Airmix® technology delivering the highest manual production gun efficiency in the world</li> <li>• Total Energy Control for automatic voltage and current control</li> <li>• Self Sealing packing</li> <li>• Rugged heavy duty construction</li> </ul>	<ul style="list-style-type: none"> <li>• Lower VOC and HAP emissions</li> <li>• Cleaner work environment</li> <li>• Fast training of operators resulting in lower rejects and higher finish quality</li> <li>• Extremely high uptime resulting in lower maintenance costs</li> <li>• Delivers many years of reliable performance in tough industrial environments</li> </ul>

# AIRMIX® MANUAL ELECTROSTATIC GUN

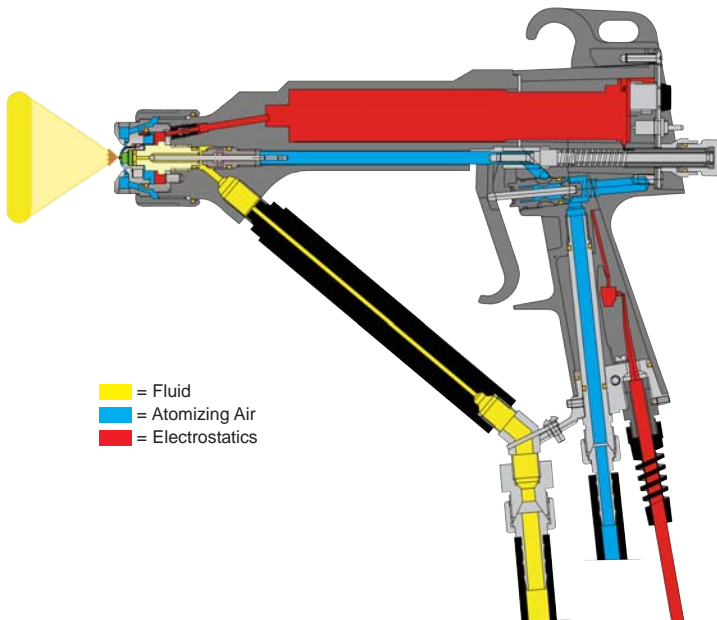
## KMX3 FEATURES

### Certifications and Approvals

The KMX3 gun is Entela certified in Canada and CE and EX Certified for Europe. (US certification pending)



### KMX3 Gun Diagram



### Environmental Standard

Airmix® is the environmental standard for high production facilities. It uses less energy, less paint and requires less work than all other manual production electrostatic guns.

### Simple Gun Control Knob



Kremlin KMX3 Gun

### Outstanding Atomization and Efficiencies Combined

Airmix® delivers extremely uniform wide and narrow fan patterns by interchanging tips from a large selection of available sizes.



# MANUAL ELECTROSTATIC GUN FOR WATERBASED COATINGS

## KMP H<sub>2</sub>O / KMX H<sub>2</sub>O



KMX H<sub>2</sub>O  
Airmix®



KMP H<sub>2</sub>O  
Conventional Fan

**CONVERTIBLE**  
**CONVENTIONAL**



The NEW H<sub>2</sub>O gun is the lightest, easiest, and most rugged manual electrostatic gun in the industry. The gun cables and electronics are removed and replaced with our unique water charge system. The water charge system, when combined with the NEW IsoBubble II, delivers the electrostatic charge through the fluid line.

### SPECIFICATIONS

Gun Length:	11.2" / 285 mm
Gun Weight:	22 oz / 620 grams
Max. Output Voltage:	85 kV
Max. Air Pressure:	100 psi / 6.9 bar
Air Consumption:	3 cfm / 5 m <sup>3</sup> /hr
Max. Fluid Pressure Range:	KMP H <sub>2</sub> O: 145 psi / 10 bar KMX H <sub>2</sub> O: 1450 psi / 100 bar
Max. Temperature:	140° F / 60° C
Air Inlet Fitting:	1/4" M NPS (Warning: Use conductive air hose only)
Fluid Inlet Fitting:	#5 F JIC
Trigger Assembly:	2 finger standard
Wetted Parts:	Plastic, carbide, stainless steel
Seal Kit Number:	129.270.094
Standard Repair Kit:	KMP H <sub>2</sub> O: 129-276-350 KMX H <sub>2</sub> O: 129-274-350
Materials Sprayed:	Virtually all waterbased materials
Recommended Air Hose Dia:	1/4" / 6.35 mm ID

(1) For waterbased, non flammable conductive coatings, see IsoBubble II (Page11).  
(2) All KMX H<sub>2</sub>O guns comes standard with 09-13 Tip

FEATURE	BENEFIT
<ul style="list-style-type: none"> <li>• Uses Kremlin unique Airmix® technology delivering the highest manual production gun efficiency in the world</li> <li>• Water charge electrostatic system</li> <li>• Self Sealing packing</li> <li>• Rugged heavy duty construction</li> <li>• Lightest electrostatic gun in the industry</li> </ul>	<ul style="list-style-type: none"> <li>• Lower VOC and HAP emissions</li> <li>• Cleaner work environment</li> <li>• Cable free gun</li> <li>• Extremely high uptime resulting in lower maintenance costs</li> <li>• Delivers many years of reliable performance in tough industrial environments</li> <li>• Outstanding ergonomics and operator acceptance</li> <li>• Lower paint costs</li> <li>• Less booth cleaning</li> <li>• Heavy duty performance</li> </ul>

# ISOLATION SYSTEM FOR WATER BASED COATINGS

## THE FASTEST WAY TO WATERBORNE ELECTROSTATICS

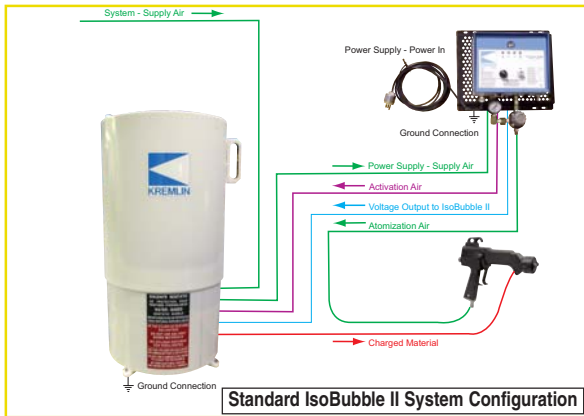
The **NEW** Kremlin IsoBubble™ II is a simple package for waterborne applications. It works with the H<sub>2</sub>O line of conventional and Airmix® guns and has a range of six possible pumps.

## ISOBUBBLE II



### SPECIFICATIONS

Weight w/o Pump:	66lbs. / 30 kg
Air Inlet:	3/8" / 9.5 mm Tube
Dimensions:	Inside 27" / 68 cm dia. x 39" / 99 cm H Outside 27.5" / 70 cm dia. x 52" / 132 cm H
Air Requirements:	Airspray - up to 24 CFM / 40 m <sup>3</sup> /hr Airmix® - up to 8 CFM / 13 m <sup>3</sup> /hr
Space for up to :	10 Gallon / 40 Liter Containers



FEATURE	BENEFIT
<ul style="list-style-type: none"> <li>Built-in safety interlock</li> <li>Rugged heavy duty construction</li> <li>High voltage added in the isolated system, not at the gun</li> <li>Complete system requires power, compressed air and paint to operate</li> </ul>	<ul style="list-style-type: none"> <li>Immediately and completely grounds out the system if accidentally opened</li> <li>System is designed for production environments</li> <li>Eliminates the need for a voltage cable to the gun and charging components inside of the gun which reduces maintenance and stress on operators</li> <li>Extremely fast start-up</li> </ul>

# MANUAL ELECTROSTATIC PACKAGES

12



MIV6600 Manual Electrostatic Package



KMX/KMP3 Manual Electrostatic Package

## MIV6600 Conventional & HVLP Gun

MIV6600.1 for Solvent Based Paints with Medium Resistivity (Standard Paints)						
PATTERN SHAPE	FLUID RESISTANCE	ISOLATION HOSE LENGTH	TOTAL HOSE LENGTH	FLUID FITTING	AIR FITTING	GUN PACKAGE PART NUMBER <sup>(1)</sup>
0.31" (8mm) Vortex	10 to 500 MΩ.cm	INTERNAL	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515310
0.47" (12mm) Vortex	10 to 500 MΩ.cm	INTERNAL	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515313
Conventional Fan <sup>(2)</sup>	10 to 500 MΩ.cm	INTERNAL	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515316
HVLP Fan <sup>(2)</sup>	10 to 500 MΩ.cm	INTERNAL	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515318

MIV6600.H1 for Solvent Based Paints with High Resistivity (Hot Paints)						
PATTERN SHAPE	FLUID RESISTANCE	ISOLATION HOSE LENGTH	TOTAL HOSE LENGTH	FLUID FITTING	AIR FITTING	GUN PACKAGE PART NUMBER <sup>(1)</sup>
0.31" (8mm) Vortex	1 to 500 MΩ.cm	16ft (5m)	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515299
0.47" (12mm) Vortex	1 to 500 MΩ.cm	16ft (5m)	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515302
Conventional Fan <sup>(2)</sup>	1 to 500 MΩ.cm	16ft (5m)	29ft (9m)	3/8" NPS (Female)	1/4" NPS (Female)	1515305

(1) Gun Packages include gun, power supply with wall mount plate, air and fluid hose and 10ft of air hose (to connect the pump and power supply).  
 (2) HVLP and Conventional Fan versions of the MIV6600 come standard with a 1.5 mm fluid nozzle.

## KMP - Airspray & KMX - Airmix<sup>®</sup> Guns

KMX3 for Solvent Based Paints						
PATTERN SHAPE	FLUID RESISTANCE	ISOLATION HOSE LENGTH	TOTAL HOSE LENGTH	FLUID FITTING	AIR FITTING	GUN PACKAGE PART NUMBER <sup>(1)</sup>
Airmix <sup>®</sup> Fan	5 to 500 MΩ.cm	INTERNAL	32ft (10m)	#5 JIC (Female)	1/4" NPS (Female)	668-284-420

KMP H <sub>2</sub> O and KMX H <sub>2</sub> O Guns for Water Based Paints						
MODEL	SPRAY PATTERN	FLUID RESISTANCE	ISOLATION HOSE LENGTH	FLUID FITTING	AIR FITTING	GUN PACKAGE PART NUMBER <sup>(1)</sup>
KMP3 H <sub>2</sub> O <sup>(2)</sup>	Conventional Fan	0 to 5 MΩ.cm	32ft (10m)	#5 JIC (Female)	1/4" NPS (Female)	Call For Assistance
KMX3 H <sub>2</sub> O	Airmix <sup>®</sup> Fan	0 to 5 MΩ.cm	32ft (10m)	#5 JIC (Female)	1/4" NPS (Female)	Call For Assistance

(1) Gun Packages include gun, power supply with wall mount plate, air and fluid hose and 10ft of air hose (to connect the pump and power supply).  
 (2) Call for assistance for specific configurations.

# MANUAL ELECTROSTATIC SYSTEMS



MIV6600 Manual Electrostatic System



KMX3 Manual Electrostatic System



KMP / KMX H<sub>2</sub>O Manual Electrostatic System

## SOLVENT BASED SYSTEMS

Manual Electrostatic Systems for Solvent Based Paints						
GUN	SPRAY PATTERN	FLUID RESISTANCE	AIR & FLUID HOSE LENGTH	POWER SUPPLY	FEED PUMP MODEL	SYSTEM PART NUMBER
MIV6600 <sup>(2)</sup>	Conventional Fan	10 to 500 MΩ.cm	29ft (9m)	GNM100	PMP-150 (Diaphragm)	668-753-013
MIV6600 <sup>(2)</sup>	Conventional Fan	10 to 500 MΩ.cm	29ft (9m)	GNM100	02.75 (Piston)	668-761-403
KMX3	Airmix® Fan	5 to 500 MΩ.cm	32ft (10m)	STD9	10.14 (Piston)	668-665-002
KMX3	Airmix® Fan	5 to 500 MΩ.cm	32ft (10m)	STD9	10.25 (Piston)	668-777-104
KMX3	Airmix® Fan	5 to 500 MΩ.cm	32ft (10m)	STD9	20.15 (Piston)	668-890-100
KMX3	Airmix® Fan	5 to 500 MΩ.cm	32ft (10m)	STD9	20.25 (Piston)	668-770-104
KMX3	Airmix® Fan	5 to 500 MΩ.cm	32ft (10m))	STD9	17A (Piston)	668-730-001

(1) Systems include gun, power supply with wall mount plate, air and fluid hose, 10ft of supply air hose (to connect the pump and power supply) and designated pump.  
 (2) The MIV6600 gun with conventional fan comes standard with a 1.5 mm fluid nozzle.

## ISOBUBBLE II™ WATER BASED SYSTEMS

Manual Electrostatic Systems for Water Based Paints						
GUN	SPRAY PATTERN	FLUID RESISTANCE	AIR & FLUID HOSE LENGTH	POWER SUPPLY	FEED PUMP MODEL	SYSTEM PART NUMBER
KMP3 H <sub>2</sub> O <sup>(2)</sup>	Conventional Fan	1 to 5 MΩ.cm	32ft (10m)	STD9	PMP-150 (Diaphragm)	668-753-100
KMP3 H <sub>2</sub> O <sup>(2)</sup>	Conventional Fan	1 to 5 MΩ.cm	32ft (10m)	STD9	02.75 (Piston)	668-761-100
KMX3 H <sub>2</sub> O	Airmix® Fan	1 to 5 MΩ.cm	32ft (10m)	STD9	10.14 (Piston)	151-260-740
KMX3 H <sub>2</sub> O	Airmix® Fan	1 to 5 MΩ.cm	32ft (10m)	STD9	20.15 (Piston)	151-260-750
KMX3 H <sub>2</sub> O	Airmix® Fan	1 to 5 MΩ.cm	32ft (10m)	STD9	20.25 (Piston)	668-770-250
KMX3 H <sub>2</sub> O	Airmix® Fan	1 to 5 MΩ.cm	32ft (10m)	STD9	17A (Piston)	668-730-250

(1) Water based systems include gun, power supply with wall mount plate, air and fluid hose, 10ft of air hose (to connect the pump and power supply), designated pump and IsoBubble II™ isolation system.  
 (2) The KMP H<sub>2</sub>O gun with conventional fan comes standard with a 1.2 mm fluid nozzle.

# MANUAL ELECTROSTATIC POWER SUPPLIES

14

## GNM 100



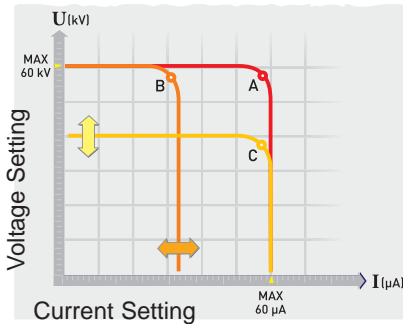
The GNM 100 is an extremely flexible microprocessor-controlled power pack with a digital display. The unit allows a user to create multiple programs and preset the exact voltage and current requirements for optimal performance in different applications. In addition, the power supply delivers a constant voltage regardless of current draw resulting in maximum wrap around effect.

### SPECIFICATIONS

Weight:	6.6 lbs / 3 kg
Air Inlet / Outlet:	Special hose and cable assembly
Incoming Power:	110V Single Phase AC 60kHz @ 50 Watts
Dimensions:	3 1/4" H x 7" W x 8 5/8" D 82 mm H x 178 mm W x 219 mm D

### Gun Performance with GNM 100 Power Pack

Gun Electrode Voltage:	Adjustable from 0 to 60kV
Maximum Output Current:	60 $\mu$ A



Example of High Voltage adjustments

### FEATURE

- Nine (9) operator programmable settings
- Common to all Sames guns
- Flat voltage / current curve

### BENEFIT

- Operator determines optimum settings for each preset and can quickly switch presets for different applications
- Can be used to supply voltage to either Sames powder or liquid guns
- Very high transfer efficiencies

# MANUAL ELECTROSTATIC ACCESSORIES

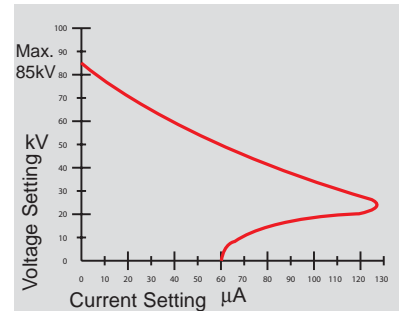
## STD 9

The STD9 power pack, for Kremlin guns, is easy to use and requires minimal training. The power pack supplies low voltage to the gun which is converted to a high voltage for charging the paint particles. Each unit comes standard with wall plate and 16 foot power cord.

### SPECIFICATIONS


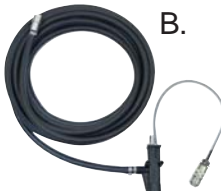
Weight:	13lbs.
Air inlet and outlet:	1/4" M NPS
Incoming Power:	115/230V Single Phase AC 60kHz @ 30W
Low Voltage to Gun:	Adjustable from 3V to 12V DC
Maximum Current:	0.65A @ 12V
Dimensions:	8 1/4"H x 10 1/4" W x 5" D
Gun Electrode Voltage:	Adjustable from 20kV to 85kV
Max. Output Current:	100 $\mu$ A




**Note:** For the IsoBubble II™ unit, the STD 9B power supply is required.





FEATURE	BENEFIT
<ul style="list-style-type: none"> <li>• Simple Controls</li> <li>• Total Energy Control Charging System</li> <li>• Wall Plate Included</li> </ul>	<ul style="list-style-type: none"> <li>• Fast and easy training</li> <li>• Allows for easy penetration into deep recesses without adjusting the voltage</li> <li>• Can be installed in any non-hazardous location</li> </ul>

# MANUAL ELECTROSTATIC ACCESSORIES

1. Low voltage cable extensions and replacement cables		Part Number
	<b>A. Kremlin Low Voltage Cable Extensions for KMP3 and KMX3 models</b>	
	16ft. (5m)	129.270.330
	32ft. (10m)	129.270.320
	50ft. (15m)	129.270.315
	<b>B. Sames Replacement Cable with Air flow switch assy. for MIV6600</b>	
	30ft. (9m)	1308416
	50ft. (15m)	1308417
	65ft. (20m)	1308418

2. Hoses for manual electrostatic guns		Part Number	
	<b>A. Kremlin fluid hoses for all models (3/16" - 4.8mm ID)</b>	<b>For KMX3 Gun Solvent Based</b>	<b>For H2O Series Water Based</b>
	16ft. (5m)	N/A	129-292-200
	32ft. (10m)	050-450-606	129-292-210
	50ft. (15m)	050-450-607	N/A
	65ft. (20m)	050-450-608	N/A
	82ft. (25m)	668-450-882	N/A
	<b>B. Sames fluid hoses and hose extensions (3/8" - 9.5mm ID)</b>		
	13ft. (4m) Extension hose for MIV6600.H1 gun (makes total hose length 30ft. (9m))		1506732N
	30ft. (9m) Standard hose for MIV6600.1 gun		1506733N
	50ft. (15m)		1506734N
	65ft. (20m)		1506736N
	<b>C. Kremlin air hoses for all Kremlin models (1/4" - 6.35mm ID)</b>		
	32ft. (10m)		050-382-110
	50ft. (15m)		050-382-116
	65ft. (20m)		050-382-113
	82ft. (25m)		050-382-217

3. In-line paint filter		Part Number
• Stainless steel filters come with no. 6 screen and maximum pressure is 2900 psi		
	(1) (Fittings:(I) M JIC #5, (O) M JIC #5)	155.010.000
	(2) (Fittings:(I) M JIC #5, (O) FJIC #5)	155.010.100

4. Stainless steel filter screens (Qty 5)				Part Number
Filter number	Filtration size		Tip Number	
	Micron	Mesh		
4	99	140	2-3-4-6	129.609.907
6	168	85	9	129.609.908
12	280	60	12 and up	129.609.909

# MANUAL ELECTROSTATIC ACCESSORIES

 <p>A. [Image of conversion kit parts]</p> <p>E. [Image of conversion kit parts]</p>	<p><b>5. Conversion kits for all guns</b> <span style="float: right;"><b>Part Number</b></span></p> <p>• Easy to install conversion kits to change spray gun type</p> <table border="0"> <tr> <td>A. Kremlin KMX3 (Airmix®) to KMP3 (Conventional) Conversion Kit</td> <td style="text-align: right;">129-286-300*</td> </tr> <tr> <td>B. Kremlin KMP3 (Conventional) to KMX3 (Airmix®) Conversion Kit</td> <td style="text-align: right;">129-284-300*</td> </tr> <tr> <td>C. Sames MIV6600 conversion kit to conventional fan pattern</td> <td style="text-align: right;">1521320</td> </tr> <tr> <td>D. Sames MIV6600 conversion kit to conventional vortex pattern</td> <td style="text-align: right;">1521321</td> </tr> <tr> <td>E. Sames MIV6600 conversion kit to HVLP fan pattern</td> <td style="text-align: right;">1521322</td> </tr> </table> <p><small>*Items A and B can also be used on the Kremlin H<sup>2</sup>O series of guns</small></p>	A. Kremlin KMX3 (Airmix®) to KMP3 (Conventional) Conversion Kit	129-286-300*	B. Kremlin KMP3 (Conventional) to KMX3 (Airmix®) Conversion Kit	129-284-300*	C. Sames MIV6600 conversion kit to conventional fan pattern	1521320	D. Sames MIV6600 conversion kit to conventional vortex pattern	1521321	E. Sames MIV6600 conversion kit to HVLP fan pattern	1521322
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E. Sames MIV6600 conversion kit to HVLP fan pattern	1521322										
 <p>A. [Image of Resistivity Meter]</p> <p>B. [Image of High Voltage Probe]</p>	<p><b>6. Paint resistance and high voltage testers</b> <span style="float: right;"><b>Part Number</b></span></p> <p>• Comes complete with probe</p> <table border="0"> <tr> <td>A. Sames AP200 Resistivity Meter</td> <td style="text-align: right;">1519657</td> </tr> <tr> <td>B. Sames HVP125 High Voltage Probe</td> <td style="text-align: right;">63-1106-00</td> </tr> </table>	A. Sames AP200 Resistivity Meter	1519657	B. Sames HVP125 High Voltage Probe	63-1106-00						
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B. Sames HVP125 High Voltage Probe	63-1106-00										
 <p>A. [Image of spray gun cover]</p>	<p><b>7. Spray gun covers</b> <span style="float: right;"><b>Part Number</b></span></p> <p>• Essential during spraying, the cover offers total protection for the spray gun</p> <table border="0"> <tr> <td>A. Kremlin spray gun covers for all Kremlin models (Pack of 10)</td> <td style="text-align: right;">129-270-095</td> </tr> <tr> <td>B. Sames spray gun covers for MIV6600 (Each)</td> <td style="text-align: right;">1202466</td> </tr> </table>	A. Kremlin spray gun covers for all Kremlin models (Pack of 10)	129-270-095	B. Sames spray gun covers for MIV6600 (Each)	1202466						
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	<p><b>8. Hose protection sleeve</b> <span style="float: right;"><b>Part Number</b></span></p> <p>• This sleeve protects the hoses and cables, guaranteeing longer life and flexibility</p> <table border="0"> <tr> <td>A. Hose protection sleeve (32ft. / 10m)</td> <td style="text-align: right;">669-990-103</td> </tr> <tr> <td>B. Hose protection sleeve (50ft. / 15m)</td> <td style="text-align: right;">669-990-106</td> </tr> <tr> <td>C. Hose protection sleeve for all lengths over 50ft. (100ft. / 30m)</td> <td style="text-align: right;">669-990-104</td> </tr> </table>	A. Hose protection sleeve (32ft. / 10m)	669-990-103	B. Hose protection sleeve (50ft. / 15m)	669-990-106	C. Hose protection sleeve for all lengths over 50ft. (100ft. / 30m)	669-990-104				
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C. Hose protection sleeve for all lengths over 50ft. (100ft. / 30m)	669-990-104										
 <p>A. [Image of 5 Gallon Agitator]</p> <p>B. [Image of 5 Gallon Agitator with Cover]</p> <p>C. [Image of 55 Gallon Agitator with Cover]</p>	<p><b>9. 5 and 55 Gallon Direct Drive Agitators</b> <span style="float: right;"><b>Part Number</b></span></p> <p>• These coveralls protect the operator from the electrostatically charged paint wrapping back</p> <table border="0"> <tr> <td>A. 5 Gallon Agitator with Side Mount Bracket and Nylon Blade</td> <td style="text-align: right;">049-220-710</td> </tr> <tr> <td>B. 5 Gallon Stainless Steel Agitator with Cover and Nylon Blade</td> <td style="text-align: right;">668-668-806</td> </tr> <tr> <td>C. 55 Gallon Agitator and Cover with Nylon Blades</td> <td style="text-align: right;">668-668-320</td> </tr> </table>	A. 5 Gallon Agitator with Side Mount Bracket and Nylon Blade	049-220-710	B. 5 Gallon Stainless Steel Agitator with Cover and Nylon Blade	668-668-806	C. 55 Gallon Agitator and Cover with Nylon Blades	668-668-320				
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C. 55 Gallon Agitator and Cover with Nylon Blades	668-668-320										
	<p><b>10. Protective hand cream</b> <span style="float: right;"><b>Part Number</b></span></p> <p>• This lotion provides a thin layer of protection from paint on the operator skin. Easily removed with water.</p> <table border="0"> <tr> <td>A. Protective Cream (1 Tube)</td> <td style="text-align: right;">043-039-912</td> </tr> <tr> <td>B. Protective Cream (6 Tubes)</td> <td style="text-align: right;">143-039-913</td> </tr> <tr> <td>C. Protective Cream (36 Tubes)</td> <td style="text-align: right;">143-039-912</td> </tr> </table>	A. Protective Cream (1 Tube)	043-039-912	B. Protective Cream (6 Tubes)	143-039-913	C. Protective Cream (36 Tubes)	143-039-912				
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# MANUAL ELECTROSTATIC ACCESSORIES

A.



## 11. Spray Gun Seat Inserts for KMX3, KMP H<sub>2</sub>O & KMX H<sub>2</sub>O Part Number

A.	Delrin - Standard on all Kremlin guns (Each)	129-284-001
B.	Stainless steel - Optional for KMX & KMX H <sub>2</sub> O Guns(Each)	129-284-002

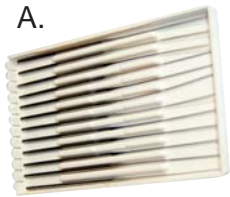
A.



## 12. Microscreens & Tip Seals Part Number

A.	Microscreens for tip sizes 02,03,04, & 06 (140 Mesh)	(Pack of 10)	129-609-901
B.	Tip seals for tip sizes 09 and larger	(Pack of 10)	129-529-903

A.



C.



## 13. Cleaning Needles & Needle Holder Part Number

A.	Cleaning needles for tip sizes 09 and smaller	(Pack of 12)	000-094-000
B.	Cleaning needles for tip sizes 12 and larger	(Pack of 12)	000-094-002
C.	Unlogging needle holder		669-094-000



## 14. Pump Lubricant Part Number

A.	Lubricant T (1/4 L) for solvent-based paints	149-990-020
B.	Lubricant T (1 qt.) for solvent-based paints	668-990-002
C.	Lubricant T (1 gal.) for solvent-based paints	668-990-001
D.	Lubricant P (1 qt.) for polyurethanes	668-990-022
E.	Lubricant P (1 gal.) for polyurethanes	668-990-021

## 1. Airmix Tip Selection Chart for KMX3 and KMX H<sub>2</sub>O Guns

Tip Size	Water Output						Diameter		Screen Sizes				Average width of fan pattern at 10" (3.94cm)					
	300 psi 20 bar		500 psi 35 bar		750 psi 50 bar				Gun Filter		Pump Filter		6"	8"	9"	11"	12"	14"
	oz/min	l/min	oz/min	l/min	oz/min	l/min	inches	mm	Mesh	Filter #	Mesh	Filter #	2.36cm	3.15cm	3.54cm	4.33cm	4.72cm	5.51cm
06	5	0.15	7	0.21	10	0.30	0.011	0.28	140	4	140	4	06-07	06-09	06-11	06-13	06-15	—
09	7	0.21	10	0.30	15	0.44	0.013	0.33	80	6	80	6	09-07	09-09	09-11	09-13	09-15	—
12	9	0.27	12	0.35	18	0.53	0.015	0.38	80	6	70	8	12-07	12-09	12-11	12-13	12-15	12-17
14	10	0.30	13	0.38	23	0.68	0.016	0.41	50	12	50	12	—	14-09	14-11	14-13	14-15	14-17
20	13	0.38	17	0.50	33	0.98	0.019	0.50	50	12	50	12	—	20-09	20-11	20-13	20-15	20-17

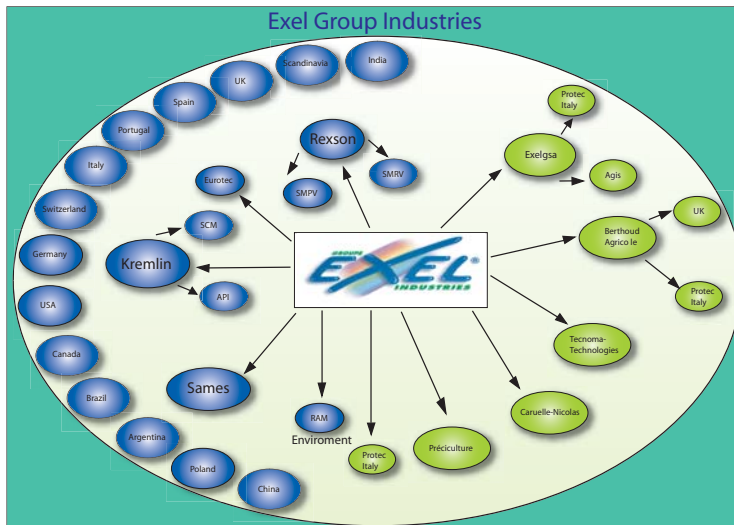
To determine the tip part number, replace the Xs in the part number 134-5XX-XX5 with the tip number. Example: To order a 09-11 tip, order by part number 134-509-115

# EXEL INDUSTRIAL

## Part of a Worldwide Organization

### EXEL INDUSTRIAL - Part of a Worldwide Organization

EXEL Industrial is a wholly owned subsidiary of Kremlin Rexson SA; a Division of EXEL Industries. EXEL employs over 1800 people worldwide and serves both the agricultural and the industrial markets. Our market presence reaches all corners of the globe with facilities on every continent and in nearly every major country.



**The Largest Selection of High Quality Application Equipment in the World**

EXEL has been manufacturing Kremlin products as well as other brands for many years. Recently, it changed the headquarters names in the US and Canada from Kremlin to EXEL. This new name change consolidates the strong Kremlin brand with two other outstanding brands, Sames and Rexson, into one organization. The result is a professional industrial solution and service team with the largest selection of high quality performance application equipment in the world. Whether you are applying liquid, viscous product or powder, our team is the best solution and service provider for your needs.



Since 1925... From "Airmix<sup>®</sup>" - the best non-electrostatic production finishing tool available - to a complete line of conventional airspray (HVLP) guns, "paint" delivery equipment and two-component metering equipment.



Since 1947... The global leader in powder and liquid electrostatic application equipment. Sames technology is "leading edge" for Tier 1, 2, and 3 automotive suppliers as well as general industrial manufacturers.



Since 1954... Dedicated technology focused on pumping and dispensing of highly viscous sealants and adhesives. From manual systems with single post rams to highly sophisticated and automated metering and shot dispensing systems.

#### Standard Product and Automation Divisions

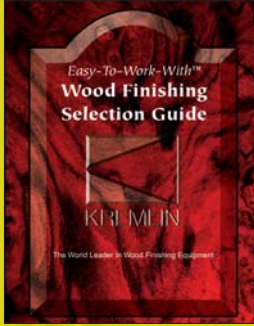
Along with its three brands, EXEL has two divisions. One division, EXEL Industrial, is dedicated to application solutions using standard Kremlin, Sames and Rexson products. The second division, EXEL Systems, is dedicated to engineered application solutions using Kremlin, Sames and Rexson products.

#### Solution & Service Centers

EXEL Industrial's continual growth is attributable to many factors including our valuable Solution & Service Centers. Working together, not as distributor/vendor, but as true business partners, has allowed us to develop the strongest and most committed network of Solution & Service Centers in North America.



OTHER CATALOGS



Wood Guide



Automatic Spray



Manual Airmix®



Fluid Delivery\*



Glue & Adhesives Guide\*



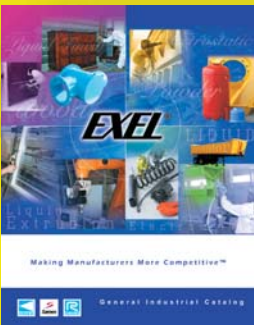
2 Component Systems\*



Manual Airspray



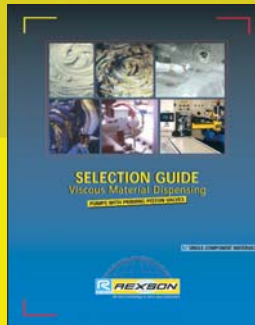
Automatic Electrostatics



General Industrial



Manual Powder Equipment



1 Component Extrusion



2 Component Extrusion\*

\* Coming Soon

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