



EXCEL-THE FUTURE OF FINISHING

2

Kremlin The Global Leader in Non-electrostatic Automatic Guns

Kremlin sells more high quality, automatic, Non-Electrostatic guns than any other manufacturer in the World.

The reasons are simple. **Kremlin** guns deliver:

- Unique patented designs
- Outstanding finish quality
- Extra wide spray patterns
- The best paint transfer efficiency in the World
- Modular construction that makes them the easiest guns to service in the World
- Rugged industrial duty construction for long lasting performance

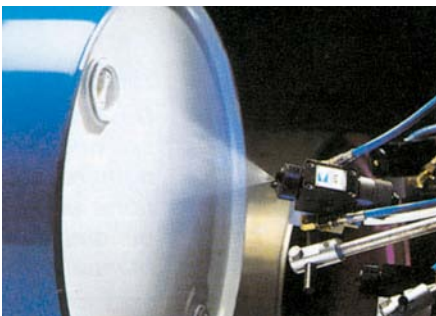
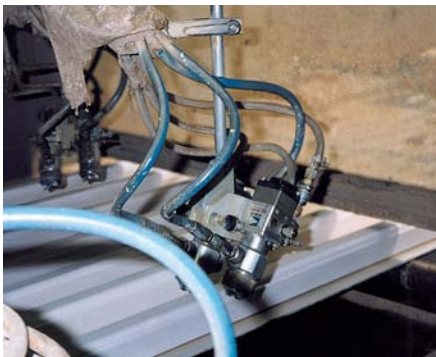
An unbeatable combination.

The **Kremlin** engineers continue to introduce new designs to the **Kremlin** guns. At this time, **Kremlin's** engineers are testing new materials, new gun bodies and aircap designs that will further improve the overall performance of **Kremlin** guns.

Thus assuring that in automatic non-electrostatic guns, **Kremlin** will remain the Global Leader.

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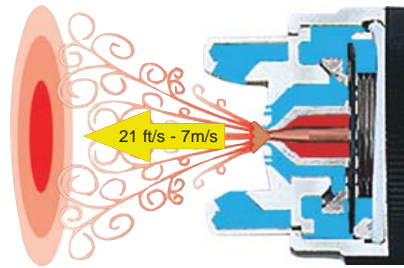
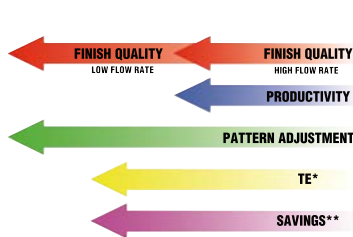


PRINCIPLES OF SPRAY TECHNOLOGIES

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HVLP Spray Technology

Benefit: Savings at Low Flow Rates



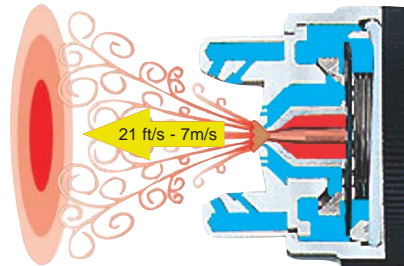
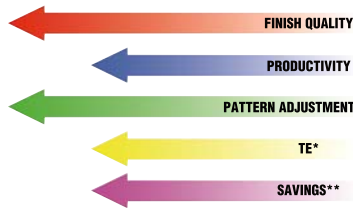
AIRCAP AIR PRESSURE
10 psi / 0.7 bar

FLUID PRESSURE
0 - 60 psi / 0 - 4 bar

TYPICAL ENERGY COST (GUN)
18 cfm / 30.6 m³/h ≈ \$300/yr

LVLP Spray Technology

Benefit: Blend of Finish Quality & Savings



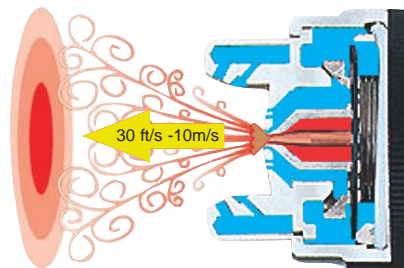
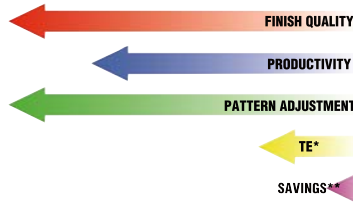
AIRCAP AIR PRESSURE
10 - 20 psi / 0.7 - 1.5 bar

FLUID PRESSURE
0 - 60 psi / 0 - 4 bar

TYPICAL ENERGY COST (GUN)
12 cfm / 20.4 m³/h ≈ \$200/yr

Conventional Spray Technology

Benefit: Finish Quality



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

FLUID PRESSURE
0 - 60 psi / 0 - 4 bar

TYPICAL ENERGY COST (GUN)
12 cfm / 20.4 m³/h ≈ \$200/yr

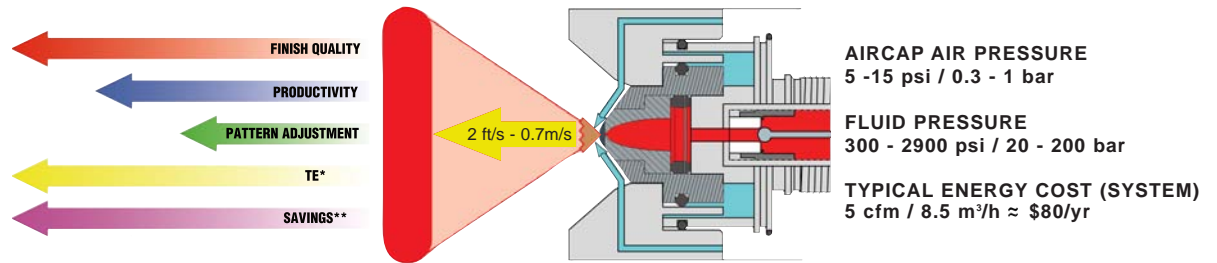
* TE - Transfer Efficiency

** Savings = Material and cost savings compared to conventional spray technology

PRINCIPLES OF SPRAY TECHNOLOGIES

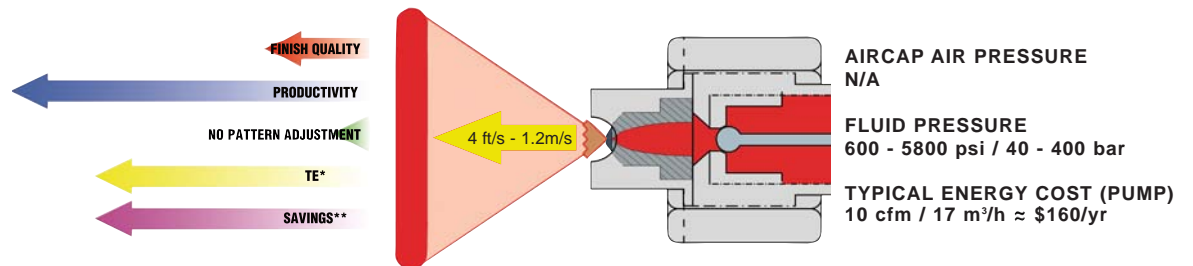
AIRMIX® Spray Technology

Benefit: Maximum Savings



AIRLESS Spray Technology

Benefit: High Productivity



* TE - Transfer Efficiency

** Savings = Material and cost savings compared to conventional spray technology

AUTOMATIC SPRAYING GUIDELINES

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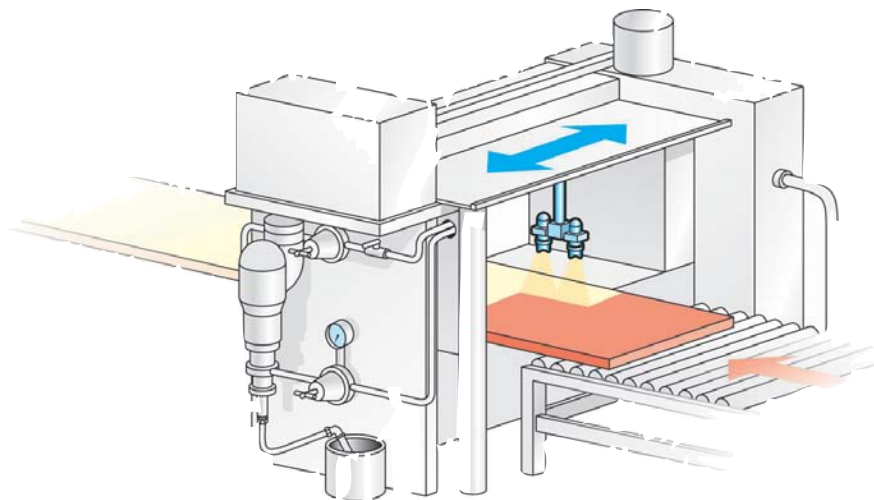
In a medium to high production facility automatic guns deliver process control resulting in minimal waste, maximum productivity, and consistent quality of the product. The result is maximum profitability.

Automatic installations fall into two groups:

- Fixed guns spraying moving or fixed parts
- Moving guns spraying moving or fixed parts

The conveyed parts can be moving in a rotation motion and / or a linear motion. The best combination of gun movement and part movement depends on the automation objective.

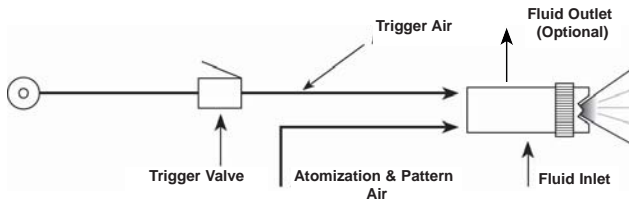
You will find automatic guns used in finishing, mold release, precision oil spray, protective coatings, and anywhere else the application of a precise amount of a fluid is required.



AUTOMATIC SPRAYING GUIDELINES

Control of Automatic Guns

All Kremlin automatic guns are triggered using a compressed air trigger line as shown on the left. In addition, each gun comes with a fluid inlet and outlet for maximum flexibility in system design.



Typical Fluid Feed Systems

Kremlin, a manufacturer of a variety of paint pumps and accessories, and their Solution and Service Centers can design the right feed system for your application. The feed system must account for the type of fluid, color change speed, film build tolerance, shear control, and temperature control.

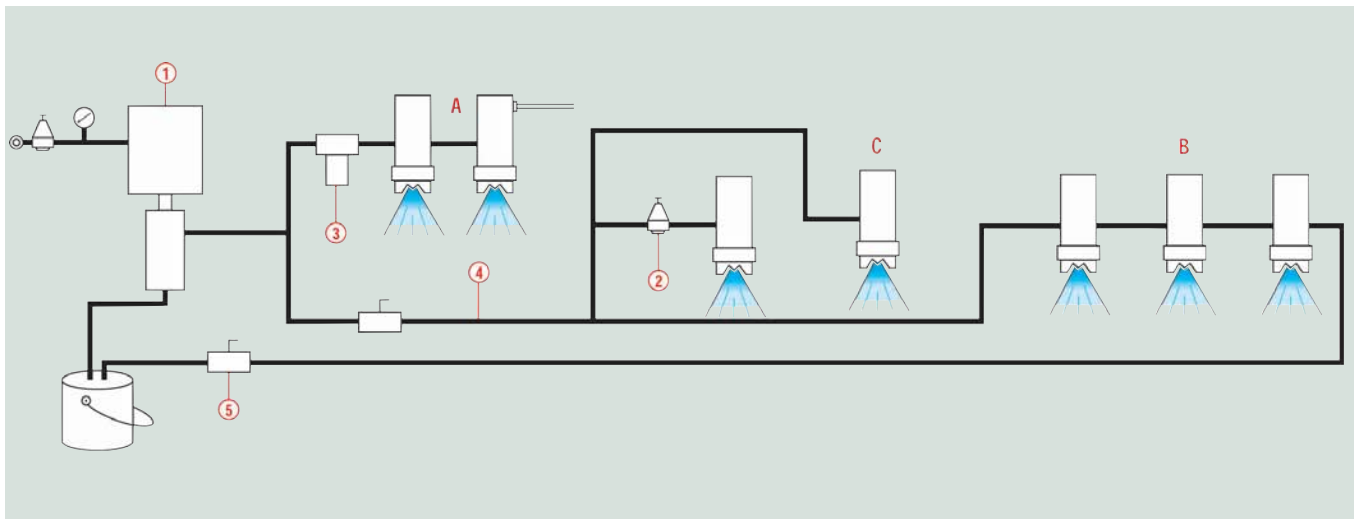
You will find below some typical automatic gun feed installations. Consult the Kremlin "Fluid Delivery" Catalog and / or your local Kremlin representative for the right feed system for you.

A and C - Dead End Systems

- 1 - Pump
- 2 - Fluid Pressure Regulator
- 3 - Fluid Filter

B - Circulation System

- 4 - Fluid tubing, flexible or rigid
- 5 - Back pressure regulator or circulation valve



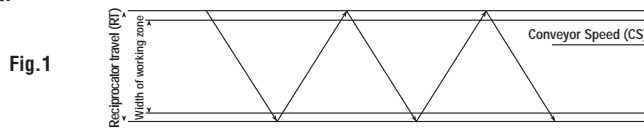
FAN PATTERN OPTIMIZATION

Determining the Right Fan Width

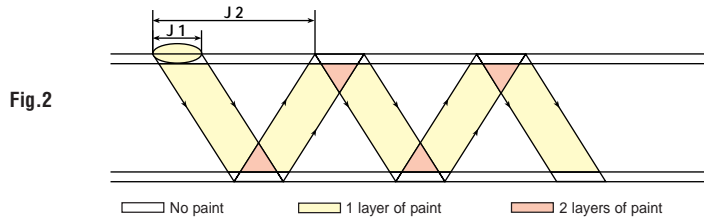
The necessary elements in determining the best width of a spray fan to deliver the right coating thickness on the parts are the following:

- Maximum stroke of the reciprocator
- Reciprocator speed
- Number of layers of paint to spray
- Conveyor speed
- Maximum width of the work zone - always less than the maximum width of the reciprocator

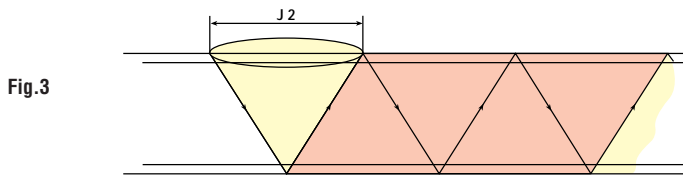
Watching the movements of the spray gun and the travel of the products to be coated, we can visualize the composition of their respective speed. If we put a time trace on the machine, a ball-point pen for example, we obtain an alternating diagonal trace (fig. 1) moving in the direction of the machine's movement.



Now let us replace this pen with a spray gun with a narrow fan (J1 in fig.2); we note that the traces of the paint sprayed cover one another every time the gun changes direction. This leads to a covering with three distinctly different areas.



Now let's progressively widen the fan from the spray gun up to the value P2 (= the linear travel of the conveyor during one cycle of the spray gun - fig. 3) and we find that the zones of coating are now all the same with two coats of paint each.



This width P2 for two even coats of paint corresponds exactly to the following formula:

$$P2 \text{ (ft.)} = CS \times 2 \times \frac{RT}{RS}$$

Where:
 CS = conveyor speed (fpm)
 RT = total reciprocator travel (ft)
 RS = the reciprocator speed (fpm)
 2 = the number of coats required
 (4 to double the number of coats)

$$J2 \text{ (m)} = VP \times 2 \times \frac{CM}{VM}$$

Where:
 VP = conveyor speed (m/s)
 CM = total reciprocator travel (m)
 VM = the reciprocator speed (m/s)
 2 = the number of layers required
 (4 to double the number of layers)

HIGH VOLUME LOW PRESSURE GUNS HVLP

For Medium to High Flowrates

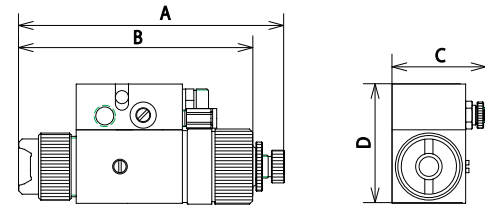
A25 VLP

The A25 VLP gun is designed for medium to high flow rates and is a leader in HVLP spraying. Our engineers have concentrated on perfecting the aircaps to maximize atomization and ultimate finish quality. Widely used on automatic installations for stains, polyurethanes, and metallics, it is the most widely used HVLP gun.



SPECIFICATIONS

Weight:	25 ounces / 700 grams
Max. Air Consumption:	19 CFM / 33 m ³ /h
Trigger Air Port:	F 1/8" NPS
Fluid Ports (x2):	F 1/4" NPS
Atomization Port:	F 1/4" NPS
Max. Fluid Pressure:	87 psi / 6 bar
Compliant Air Pressure:	58 psi / 4 bar
Recommended Trigger Air:	50 - 70 psi / 3.4 - 4.8 bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Stainless Steel
Projector Kits:	See page 16
A25VLP Seal Kit #:	129-251-995
Material Sprayed:	Virtually all fluid materials
Recommended Spray Hose:	5/16" ID / 8 mm ID



A	B	C	D
6.5"	5.6"	3.75"	2.8"
165	143	95	73

FEATURE	BENEFIT
<ul style="list-style-type: none"> Excellent atomization quality with outstanding transfer efficiency Modular design Stainless steel wetted parts 	<ul style="list-style-type: none"> Excellent finish quality, reduced paint costs, cleaner working environment, lower booth maintenance, and reduction in HAP emissions Quick service: only 4 bolts needed to release, no need to remove hoses and it maintains optimal position even after servicing Capable of spraying virtually all fluids

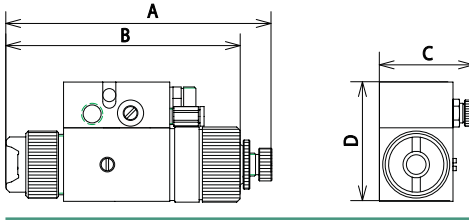
COMMON CONFIGURATION

COATING Viscosity (sec w/Zahn2)	PROJECTOR MODEL	FLUID NOZZLE SIZE		FLUID FLOW RATE		AIR CONSUMPTION		PATTERN WIDTH @ 8" W / WATER		COMPLETE GUN W / BASE
		Inches	(mm)	oz/min	cc/min	CFM	m ³ /hr	Inches	(mm)	
Paints, Sealers (16 - 20)	09 VLP 3	0.035"	0.9mm	16	473	19	33	14"	356	135-266-601
Paints, Sealers (18 - 22)	12 VLP 3	0.047"	1.2mm	24	705	19	33	15"	381	135-266-602

HIGH VOLUME LOW PRESSURE GUNS HVLP

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A26 VLP



A	B	C	D
6.5"	5.6"	3.75"	2.8"
165	143	95	73

For Low Flowrates

A leader in HVLP spraying, the A26 VLP gun is designed for low flow rates and superior finish quality. Our engineers have concentrated on perfecting the aircaps to maximize atomization while maintaining high transfer efficiencies. The A26 VLP gun base incorporates independent atomization and fan control knobs for superior performance.

SPECIFICATIONS

Weight:	25 ounces / 700 grams
Max. Air Consumption:	19 CFM / 33 m ³ /h
Trigger Air Port:	F 1/8" NPS
Fluid Ports (x2):	F 1/4" NPS
Atomization Port:	F 1/4" NPS
Max. Fluid Pressure:	87 psi / 6 bar
Compliant Air Pressure:	58 psi / 4 bar
Recommended Trigger Air:	50 - 70 psi / 3.4 - 4.8 bar
Max. Fluid Pressure:	117° F / 47° C
Wetted Parts:	Stainless Steel
Projector Kits:	See page 16
A26VLP Seal Kit #:	129-267-090
Material Sprayed:	Virtually all fluid materials
Recommended Air Hose:	5/16" ID / 8 mm ID

FEATURE

- Excellent atomization quality with outstanding transfer efficiency
- Modular design
- Independent fan and atomization control
- Stainless steel wetted parts

BENEFIT

- Excellent finish quality, reduced paint costs, cleaner working environment, lower booth maintenance, and reduction in HAP emissions
- Quick service: only 4 bolts needed to release, no need to remove hoses and it maintains optimal position even after servicing
- Optimize finish quality and pattern size
- Capable of spraying virtually all fluids

COMMON CONFIGURATION

COATING Viscosity (sec w/Zahn2)	PROJECTOR MODEL	FLUID NOZZLE SIZE		FLUID FLOW RATE		AIR CONSUMPTION		PATTERN WIDTH @ 8" W / WATER		COMPLETE GUN W / BASE
		Inches	(mm)	oz/min	cc/min	CFM	m ³ /hr	Inches	(mm)	
Paints, Sealers (14 - 20)	07 VLP 3	0.028"	0.7mm	12	355	19	33	13"	330	668-267-003
Paints, Sealers (16 -20)	09 VLP 3	0.035"	0.9mm	16	473	19	33	14"	355	668-267-001

LOW VOLUME LOW PRESSURE GUNS LVLP

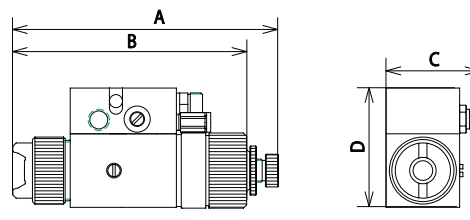
A25 LP

The A25LP gun is a hybrid between conventional and HVLP guns bringing excellent finish quality and high transfer efficiency. This gun is ideal in non-NESHAP compliant applications that require transfer efficiencies in excess of HVLP while delivering greater atomization energy.



SPECIFICATIONS

Weight:	25 ounces / 700 grams
Air Consumption:	12 CFM / 20 m ³ /h
Trigger Air Port:	F 1/8" NPS
Fluid Ports (x2):	F 1/4" NPS
Atomization Port:	F 1/4" NPS
Max. Fluid Pressure:	87 psi / 6 bar
Max. Air Pressure:	87 psi / 6 bar
Recommended Trigger Air:	50 - 70 psi / 3.4 - 4.8 bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Stainless Steel
Projector Kits:	See page 16
Seal Kit #:	129-251-995
Material Sprayed:	Virtually all fluid materials
Recommended Air Hose:	1/4" ID / 6.3 mm ID



A	B	C	D
6.5"	5.6"	3.75"	2.8"
165	143	95	73

FEATURE	BENEFIT
<ul style="list-style-type: none"> Excellent atomization quality at higher transfer efficiency than HVLP Low air consumption compared to HVLP Modular design Stainless steel wetted parts 	<ul style="list-style-type: none"> Perfect replacement gun for non-NESHAP compliant conventional application guns; reduces paint consumption by up to 30% over conventional spray Conserves energy Quick service: only 4 bolts needed to release, no need to remove hoses and it maintains optimal position even after servicing Capable of spraying virtually all fluids

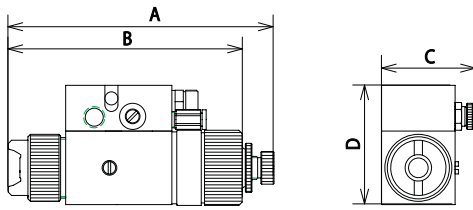
COMMON CONFIGURATION

COATING Viscosity (sec w/Zahn2)	PROJECTOR MODEL	FLUID NOZZLE SIZE		FLUID FLOW RATE		AIR CONSUMPTION		PATTERN WIDTH @ 8" W / WATER		COMPLETE GUN W / BASE
		Inches	(mm)	oz/min	cc/min	CFM	m ³ /hr	Inches	(mm)	
Paints, Sealers (14 - 20)	09 LP 3	0.035"	0.9mm	16	473	12	20	13"	330	668-265-001
Paints, Sealers (14 - 20)	09 N3C	0.035"	0.9mm	16	473	12	20	14"	355	668-265-005
Paints, Sealers (18- 22)	12 LP 3	0.047"	1.2mm	24	705	12	20	15"	381	668-265-002

CONVENTIONAL AIRSPRAY GUNS

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A25



A	B	C	D
6.5"	5.6"	3.75"	2.8"
165	143	95	73

The Kremlin A25 gun has the same design features of the HVLP and LP Versions except it is a conventional gun. It is the gun of choice when outstanding finish quality is required for hard to atomize coatings.

SPECIFICATIONS

Weight:	25 ounces / 709 grams
Air Consumption:	14 CFM / 24 m ³ /h
Trigger Air Port:	F 1/8" NPS
Fluid Ports (x2):	F 1/4" NPS
Atomization Port:	F 1/4" NPS
Max. Fluid Pressure:	87 psi / 6 bar
Max. Air Pressure:	87 psi / 6 bar
Recommended Trigger Air:	50 - 70 psi / 3.4 - 4.8 bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Stainless Steel
Projector Kits:	See page 16
Seal Kit #:	129-251-995
Material Sprayed:	Virtually all fluid materials
Recommended Air Hose:	1/4" ID / 6.3mm ID

FEATURE

- Wide range of aircaps and air pressure range
- Modular design
- Stainless steel wetted metal parts

BENEFIT

- Finest particle atomization possible resulting in outstanding finish quality
- Quick service: only 4 bolts needed to release, no need to remove hoses and it maintains optimal position even after servicing
- Capable of spraying virtually all fluid materials

COMMON CONFIGURATION

COATING Viscosity (sec w/Zahn2)	PROJECTOR MODEL	FLUID NOZZLE SIZE		FLUID FLOW RATE		AIR CONSUMPTION		PATTERN WIDTH @ 8" W / WATER		COMPLETE GUN W / BASE
		Inches	(mm)	oz/min	cc/min	CFM	m ³ /hr	Inches	(mm)	
Paints, Sealers (14 - 16)	12 NN 3C	0.047"	1.2mm	24	705	15	25	18"	457	668-260-003
Varnishes (20 - 30)	12 NN 3	0.047"	1.2mm	24	705	14	24	13"	330	668-260-010
Lacquers (30 - 40)	15 N 3	0.059"	1.4mm	33	976	14	24	20"	508	668-260-008
Adhesives (40 +)	18 N 3C	0.071"	1.8mm	40	1183	15	25	31"	787	668-260-004

CONVENTIONAL AIRSPRAY GUNS

For Solvent Free Coatings

Kremlin A28 SuperLife™ gun is a patented gun that delivers outstanding finish quality and uptime with porcelain enamel and other abrasive coatings. It is the highest performance gun in the industry for low pressure, solvent-free coatings.

A28 SuperLife™



SPECIFICATIONS

Weight:	32 ounces / 900 grams
Max. Air Consumption:	14 CFM / 23.8 m ³ /h
Trigger Air Port:	F 1/8" NPS
Fluid Ports (x2):	F 3/8" NPS
Atomization Ports:	F 1/4" NPS
Max. Fluid Pressure:	42 psi / 3 bar
Max. Air Pressure:	87 psi / 6 bar
Recommended Trigger:	80 - 95 psi / 7 bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Stainless Steel, PTFE & Polyurethane
Projector Kits:	See page 17
Seal Kit #:	129-417-900
Material Sprayed:	Waterborne only
Recommended Air Hose:	1/4" ID / 6 mm ID

FEATURE	BENEFIT
<ul style="list-style-type: none"> Patented SuperLife™ diaphragm packing Hardened S/S nozzle with polyurethane tip needle design Independent fan and atomization control Quick flush design Inlet and outlet fluid ports 	<ul style="list-style-type: none"> Delivers more than 4 times a standard packings operational life Extends the nozzle life due to the plastic to metal "soft" contact Allows for optimum spray pattern and finish quality Fast cleaning and color change Helps sustain particles in suspension resulting in extremely high finish quality

COMMON CONFIGURATION

COATING Viscosity (sec w/Zahn2)	PROJECTOR MODEL	FLUID NOZZLE SIZE		FLUID FLOW RATE		AIR CONSUMPTION		PATTERN WIDTH @ 8" W / WATER		COMPLETE GUN W / BASE
		Inches	(mm)	oz/min	cc/min	CFM	m ³ /hr	Inches	(mm)	
Ceramics (14 - 16)	09 Z 3A	0.035"	0.9mm	8	237	15	25	15"	381	135-417-002
Ceramics (20 - 30)	12 N 3C	0.047"	1.2mm	10	296	15	25	25"	635	135-417-004
Ceramics (30 - 40)	18 N 3C	0.071"	1.8mm	11	330	15	25	28"	711	135-417-006
Ceramics (40 +)	22 R 3	0.087"	2.2mm	14	405	14	24	17"	431	135-417-007

CONVENTIONAL AIRSPRAY GUNS

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A19 Gun



The Kremlin A19 gun is a standard aluminum construction gun designed for high frequency triggering in the order of 250 cycles per minute. It offers two fluid ports, indexer knob for needle adjustment, atomization, pattern controls, and a wide range of projectors.

SPECIFICATIONS

Weight:	30 ounces / 850 grams
Max. Air Consumption:	23 CFM / 40 m ³ /h
Trigger Air Port:	M 1/4" NPS
Fluid Ports (x2):	M 3/8" NPS
Atomization Port:	M 1/4" NPS
Max. Fluid Pressure:	87 psi / 6 bar
Max. Air Pressure:	87 psi / 6 bar
Recommended Trigger Air:	50 - 70 psi / 5 bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Aluminum, Plated Steel
Projector Kits:	See page 16
Seal Kit #:	129-849-904
Material Sprayed:	Virtually all non-corrosive fluids
Recommended Air Hose:	1/4" ID / 6mm ID

GUN PART # | 135-840-XXX (See Kremlin Price List)

A3 Gun








Kremlin A3 gun is a miniature spray gun for fine, delicate work. The design allows for easy changes to the width of the fan.






SPECIFICATIONS


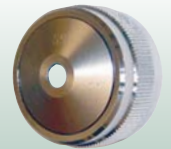

Weight:	11 ounces / 320 grams
Max. Air Consumption:	12 CFM / 20 m ³ /h
Max. Fluid Pressure:	87 psi / 6 bar
Max. Air Pressure:	87 psi / 6 bar
Trigger Air Port:	6 x 4 Tubing
Atomization & Fluid Ports:	F 1/8 NPS
Recommended Trigger :	50 - 70 psi / 5bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Aluminum, Plated Steel, S/S
Projectors Kits:	See page 17
Materials Sprayed:	Virtually all non-corrosive fluids

GUN PART # | 135-713-XXX (See Kremlin Price List)

AVAILABLE AIRSPRAY AIRCAPS

	VLP3	LP3	LP5	N3	N3C
Gun Models & Information					
FITS A25VLP & A26VLP	132-065-100	N/A	N/A	N/A	N/A
FITS A25LP	N/A	132-060-100	132-055-100	N/A	132-021-750
FITS A25	N/A	N/A	N/A	132-021-200	132-021-750
FITS A19	N/A	132-840-600	N/A	132-840-200	132-841-300
FITS A28	N/A	N/A	N/A	N/A	132-021-750
FAN SHAPE	FLAT	FLAT	FLAT	FLAT	FLAT
SPECIAL CHARACTERISTICS	HVLP	LVLP	LVLP	STANDARD	LVLP
ATOMIZATION QUALITY	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	EXCELLENT
AIR CONSUMPTION @ 30 psi / 2.1 bar	21 cfm / 18.7 m ³ /h *	8 cfm / 13.6 m ³ /h	8 cfm / 13.6 m ³ /h	12 cfm / 20.4 m ³ /h	13 cfm / 22.1 m ³ /h
FITS FLUID NOZZLE SIZES	07 - 22	07 - 12	15 - 18	12N, 15, 18	12N, 15, 18

	R3	R4	R9	Z3	Z3A
Gun Models & Information					
FITS A25VLP & A26VLP	N/A	N/A	N/A	N/A	N/A
FITS A25LP	N/A	N/A	N/A	N/A	N/A
FITS A25	132-021-300	132-021-800	132-021-400	132-021-100	132-020-500
FITS A19	132-840-300	N/A	N/A	132-840-100	132-841-400
FITS A28	132-021-300	132-021-800	132-021-400	N/A	132-020-500
FAN SHAPE	FLAT	FLAT	ROUND	FLAT	FLAT
SPECIAL CHARACTERISTICS	STANDARD	HIGH DENSITY	STANDARD	STANDARD	LOW PRESSURE
ATOMIZATION QUALITY	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	EXCELLENT
AIR CONSUMPTION @ 30 psi / 2.1 bar	10 cfm / 16.9 m ³ /h	11 cfm / 18.7 m ³ /h	8 cfm / 13.6 m ³ /h	11 cfm / 18.7 m ³ /h	13 cfm / 22.1 m ³ /h
FITS FLUID NOZZLE SIZES	22 - 27	22 - 27	22 - 27	07 - 12	07 - 12

	S3	S9	G1
Gun Models & Information			
FITS A25VLP & A26VLP	N/A	N/A	N/A
FITS A25LP	N/A	N/A	N/A
FITS A25	N/A	N/A	132-021-600
FITS A19	N/A	N/A	132-840-400
FITS A28	132-021-900	132-021-500	N/A
FAN SHAPE	FLAT	ROUND	FLAT
SPECIAL CHARACTERISTICS	STANDARD	THICK MATERIALS	FOR ADHESIVES
ATOMIZATION QUALITY	GOOD	VERY GOOD	EXCELLENT
AIR CONSUMPTION @ 30 psi / 2.1 bar	12 cfm / 20.4 m ³ /h	11 cfm / 18.7 m ³ /h	12 cfm / 20.4 m ³ /h
FITS FLUID NOZZLE SIZES	33 - 40	33 - 40	12G, 15G, 18G

(*) THE VLP3 AIRCAP IS TESTED AT 58 PSI FOR HVLP COMPLIANCE (10 PSI AT THE AIRCAP)

AUTOMATIC GUN PROJECTOR ASSEMBLIES

A25 / A26 / A19 GUN NOZZLE SET-UPS

A25 VLP / A26 VLP / A25 LP / A25

Model	Type	Projector	Nozzle Size		Max. Pattern Size 8" with water		Aircap	Needle	Nozzle
			Inches	(mm)	Inches	(mm)			
A25VLP / A26VLP	HVLP	07 VLP 3	0.028"	0.7	13"	330	132-065-100	033-251-100	134-080-100
A25VLP / A26VLP	HVLP	09 VLP 3	0.035"	0.9	14"	355	132-065-100	033-251-100	134-080-200
A25VLP	HVLP	12 VLP 3	0.047"	1.2	15"	380	132-065-100	033-251-100	134-080-300
A25 LP	LVLP	07 LP 3	0.028"	0.7	14"	355	132-060-100	033-251-100	134-021-100
A25 LP	LVLP	09 LP 3	0.035"	0.9	14"	355	132-060-100	033-251-100	134-020-100
A25 LP	LVLP	12 LP 3	0.047"	1.2	15"	380	132-060-100	033-251-100	134-020-200
A25 LP	LVLP	09 N3C	0.035"	0.9	16"	405	132-021-750	033-251-100	134-020-100
A25	Conventional	07 Z 3	0.028"	0.7	12"	305	132-021-100	033-251-100	134-021-100
A25	Conventional	09 Z 3	0.035"	0.9	14"	355	132-021-100	033-251-100	134-020-100
A25	Conventional	12 Z 3	0.047"	1.2	17"	430	132-021-100	033-251-100	134-020-200
A25	Conventional	12 NN 3	0.047"	1.2	14"	355	132-021-200	033-251-100	134-020-500
A25	Conventional	07 Z 3A	0.028"	0.7	12"	305	132-020-500	033-251-100	134-021-100
A25	Conventional	09 Z 3A	0.035"	0.9	14"	355	132-020-500	033-251-100	134-020-100
A25	Conventional	12 Z 3A	0.047"	1.2	17"	430	132-020-500	033-251-100	134-020-200
A25	LVLP	12 NN 3C	0.047"	1.2	14"	355	132-021-750	033-251-100	134-020-500
A25	Conventional	15 N 3	0.059"	1.5	21"	535	132-021-200	033-251-200	134-020-300
A25	Conventional	18 N 3	0.071"	1.8	32"	810	132-021-200	033-251-200	134-020-400
A25	Conventional	22 R 3	0.087"	2.2	18"	460	132-021-300	033-251-300	134-020-600
A25	Conventional	27 R 3	0.106"	2.7	19"	480	132-021-300	033-251-300	134-020-700
A25	For Enamels	22 R 4	0.087"	2.2	8"	205	132-021-800	033-251-300	134-020-600
A25	For Enamels	27 R 4	0.106"	2.7	12"	305	132-021-800	033-251-300	134-020-700
A25	Round Pattern	22 R 9	0.087"	2.2	8"	205	132-021-400	033-251-300	134-020-600
A25	Round Pattern	27 R 9	0.106"	2.7	8"	205	132-021-400	033-251-300	134-020-700
A25	For Adhesives	15 GG 1	0.059"	1.5	21"	535	132-021-600	033-251-200	134-021-200
A25	For Adhesives	18 GG 1	0.071"	1.8	32"	810	132-021-600	033-251.200	134-021-300

A19

Model	Type	Projector	Nozzle Size		Max. Pattern Size 8" with water		Aircap	Needle	Nozzle
			Inches	(mm)	Inches	(mm)			
A19	Conventional	7 Z 13	0.027"	0.7	11"	280	132-840-100	033-470-100	134-730-100
A19	Conventional	7 Z 13A	0.027"	0.7	11"	280	132-841-400	033-470-100	134-730-100
A19	Conventional	9 Z 13	0.035"	0.9	13"	330	132-840-100	033-470-100	134-730-200
A19	Conventional	9 Z 13A	0.035"	0.9	13"	330	132-841-400	033-470-100	134-730-200
A19	Conventional	12 Z 13	0.047"	1.2	16"	405	132-840-100	033-470-200	134-730-300
A19	Conventional	12 Z 13A	0.047"	1.2	16"	405	132-841-400	033-470-200	134-730-300
A19	Conventional	12 NN 13	0.047"	1.2	13"	330	132-840-200	033-470-200	134-731-400
A19	LVLP	12 NN 13C	0.047"	1.2	13"	330	132-841-300	033-470-200	134-731-400
A19	Conventional	15 N 13	0.059"	1.5	20"	510	132-840-200	033-470-300	134-730-400
A19	LVLP	15 N 13C	0.059"	1.5	13"	330	132-841-300	033-470-300	134-730-400
A19	Conventional	18 N 13	0.071"	1.8	13"	330	132-840-200	033-470-300	134-730-500
A19	Conventional	22 R 13	0.087"	2.2	17"	430	132-840-300	033-470-400	134-730-600
A19	Conventional	27 R 13	0.106"	2.7	18"	460	132-840-300	033-470-400	134-730-700
A19	LVLP	9 LP 3	0.035"	0.9	14"	355	132-840-600	033-470-100	134-730-200
A19	For Adhesives	12 GG 11	0.047"	1.2	12"	305	132-840-400	033-470-200	134-731-600
A19	For Adhesives	15 GG 11	0.059"	1.5	20"	510	132-840-400	033-470-300	134-731-700
A19	For Adhesives	18 GG 11	0.071"	1.8	30"	760	132-840-400	033-470-300	134-731-800

AUTOMATIC GUN PROJECTOR

A28 / A3 Gun Nozzle Setups

A28

Model	Pattern Style	Projector	Nozzle Size		Max. Pattern Size 8" with water		Aircap	Needle Tip*	Nozzle
			Inches	(mm)	Inches	(mm)			
A28	Flat	07 Z 3A	0.028"	0.7	12"	305	132-020-500	129-417-005	134-025-050
A28	Flat	09 Z 3A	0.035"	0.9	14"	355	132-020-500	129-417-005	134-025-100
A28	Flat Low Pressure	12 N 3C	0.047"	1.2	14"	355	132-021-750	129-417-005	134-025-200
A28	Flat	12 Z 3A	0.047"	1.2	17"	430	132-020-500	129-417-005	134-025-200
A28	Flat	15 N 3C	0.059"	1.5	14"	355	132-021-750	129-417-005	134-025-300
A28	Flat	18 N 3C	0.071"	1.8	14"	355	132-021-750	129-417-005	134-025-400
A28	Flat	22 R 3	0.087"	2.2	18"	460	132-021-300	129-417-005	134-025-600
A28	Flat High Density	22 R 4	0.087"	2.2	8"	200	132-021-800	129-417-005	134-025-600
A28	Round	22 R 9	0.087"	2.2	8"	200	132-021-400	129-417-005	134-025-600
A28	Flat	27 R 3	0.106"	2.7	19"	480	132-021-300	129-417-005	134-025-700
A28	Flat High Density	27 R 4	0.106"	2.7	12"	305	132-021-800	129-417-005	134-025-700
A28	Round	27 R 9	0.106"	2.7	8"	200	132-021-400	129-417-005	134-025-700
A28	Flat	33 S 3	0.130"	3.3	16"	405	132-021-900	129-417-014	134-025-800
A28	Round	33 S 9	0.130"	3.3	9"	230	132-021-500	129-417-014	134-025-800
A28	Flat	40 S 3	0.158"	4.0	20"	510	132-021-900	129-417-014	134-025-900
A28	Round	40 S 9	0.158"	4.0	9"	230	132-021-500	129-417-014	134-025-900

* The needle tip fits onto the needle holder (029.417.004) which attaches to the needle rod (029.417.007) (Refer to A28 Parts List for illustration).

A3

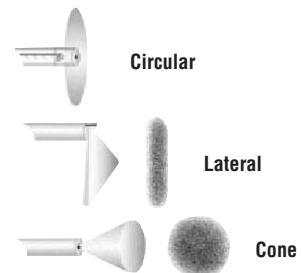
Model	Type	Projector	Nozzle Size		Max. Pattern Size 8" with water		Aircap	Needle	Nozzle
			Inches	(mm)	Inches	(mm)			
A3	Conventional	08 PX	0.032"	0.8	12"	305	132-631-100	033-713-400	134-630-400
A3	Conventional	10 PX	0.039"	1.0	12"	305	132-631-100	033-713-000	134-630-100
A3	Conventional	12 PX	0.047"	1.2	12"	305	132-631-100	033-713-100	134-630-200
A3	Conventional	06 GL	0.023"	0.6	3"	76	132-640-100	033-713-500	134-640-300
A3	Conventional	10 GL	0.039"	1.0	3"	76	132-640-100	033-713-300	134-640-100

Automatic Gun Extensions

EXTENSIONS FOR A25 AUTOMATIC GUNS

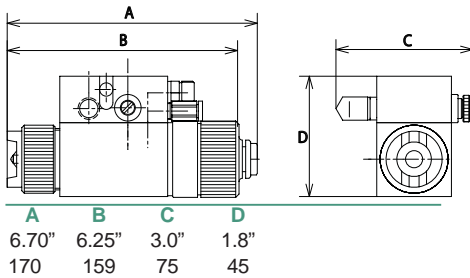
	Diameter		Length		Nozzle Type	Part Number
	ØInches	Ømm	Inches	mm		
Circular	0.8"	20	16"	400	-	075-750-111
	0.8"	20	31"	800	-	075-750-211
Lateral	0.3"	8	10"	250	12	075-650-111
	0.3"	8	10"	250	18	075-650-122
Lateral	0.3"	8	16"	400	12	075-650-311
	0.3"	8	16"	400	18	075-650-322
Cone ⁽¹⁾	0.3"	8	6"	150	12	075-650-213
	0.3"	8	6"	150	18	075-650-224

(1) For other lengths, please consult us.



AIRMIX® GUNS

ATX Gun



The Kremlin ATX gun is the most efficient non-electrostatic production gun available and is used in thousands of applications all over the world. Most automatic machines using medium fluid pressure use Airmix® guns because they are extremely reliable and deliver outstanding finish quality at minimal production cost. Nothing else compares.

SPECIFICATIONS

Weight:	26 ounces / 750 grams
Air Consumption:	3 CFM / 5 m ³ /h
Trigger Air Port:	F 1/8" NPS
Fluid Port (x2):	F 1/4" NPS
Atomization Port:	F 1/4" NPS
Max. Fluid Pressure:	1740 psi / 120 bar
Max. Air Pressure:	87 psi / 6.0 bar
Recommended Air Pressure:	50 - 70 psi / 3.45 - 4.83 bar
Max. Fluid Temperature:	117° F / 47.22° C
Wetted Parts:	Stainless Steel
Airmix® Tips and Aircaps:	See page 20
Seal Kit #:	129-251-995
Material Sprayed:	Virtually all fluid materials
Recommended Air Hose:	1/4" ID / 6.35 mm ID

FEATURE

- Excellent atomization quality at outstanding transfer efficiency
- Modular design
- Stainless steel wetted parts

BENEFIT

- Excellent finish quality, reduced paint costs, cleaner working environment, lower booth maintenance, and reduction in HAP emissions
- Quick service: only 4 bolts needed to release, no need to remove hoses and it maintains optimal position even after servicing
- Capable of spraying virtually all fluids.

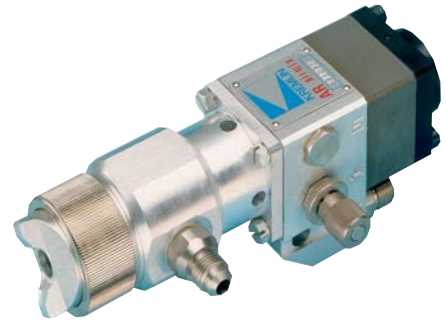
COMMON CONFIGURATION

GUN MODEL	BASE	AIRCAP	TIP SIZE	SEAT MATERIAL	PART NUMBER
ATX Airmix® Gun	Not Included	Not Included	Not Included	Stainless Steel	129-625-000
ATX Airmix® Gun	Included	BX 116	09.094	Stainless Steel	668-625-001
ATX Drum Gun	Included	Not Included	Not Included	Delrin	129-626-500
ATX Airmix® Gun	Included	BX 116	09.094	Delrin	668-626-505

AIRMIX® GUNS

AR Gun

The Airmix® AR gun has many of the same designs and operational benefits of the ATX; it can trigger at high frequency rates, up to 300 cycles per minute.



SPECIFICATIONS

Weight:	35oz. / 992g (AL) 38oz / 1077g (SS)
Air Consumption:	2.9 CFM / 5 m ³ /h
Trigger Air Port:	4 x 16 HOSE
Fluid Ports (x2):	M 1/2" JIC
Atomization Port:	M 1/4" NPS
Max. Fluid Pressure:	1160 psi / 80 bar
Max. Air Pressure:	87 psi / 6 bar
Recommended Trigger Air:	50 - 70 psi / 3 - 5 bar
Max. Fluid Temperature:	117° F / 47° C
Alum. Gun Wetted Parts:	Aluminum, Stainless Steel
S/S Gun Wetted Parts:	Stainless Steel, Carbide, Nylon
Airmix® Tips and Aircaps:	See page 20
Seal Kit #:	129-849-904
Material Sprayed:	Virtually all fluid materials
Recommended Air Hose:	1/4" ID / 6.35 mm ID

COMMON CONFIGURATION

GUN MODEL	MATERIAL	AIRCAP	TIP SIZE	SEAT MATERIAL	PART NUMBER
AR Airmix® Gun	Aluminum	Not Included	Not Included	Carbide	129-605-000
AR Airmix® Gun	Stainless Steel	Not Included	Not Included	Delrin	129-606-100

AIRMIX® TIP AND AIRCAP SELECTION CHART

Airmix® Aircaps

	BX16	BX36	BX56	BX116
Fits ATX gun	132-620-026	132-650-200	132-650-300	132-650-500
Fits AR gun	132-605-600	132-605-200	132-605-300	999-272-500
Quality of spray	Excellent	Good	Very Good	Very Good
Adjustable fan	Yes	No	No	No
Transfer efficiency	Very good	Very good	Excellent	Very good
Non-stick coating	No	No	Yes	No

Airmix® Tips

TIP NUMBER	FLUID OUTPUT				DIA. IN INCHES	DIA. IN mm	GUN FILTER Mesh Filter #	PUMP FILTER Mesh Filter #	SPRAY ANGLE AND MAXIMUM FAN WIDTH AT 10" / 25 cm													
	500 PSI 35 BAR		1000 PSI 70 BAR						10°	18°	30°	40°	45°	50°	60°	67°	75°	82°	90°			
	OZ/MIN	CM ³ /MIN	OZ/MIN	CM ³ /MIN					3.5"	5"	7"	9"	9.5"	10"	12"	13"	15"	18"	22"			
									9 cm	13 cm	18 cm	23 cm	24 cm	25 cm	31 cm	33 cm	38 cm	46 cm	60 cm			
02	1.2	40	3.0	100	0.005	0.127	140 (4)	270(2)	02-03	02-05												
03	3.0	100	5.0	148	0.007	0.178	140 (4)	270(2)	03-03	03-05	03-07											
04	5.0	148	7.4	219	0.009	0.229	140 (4)	270(2)	04-03	04-05	04-07	04-09	04-10	04-11	04-13							
06	6.7	198	11.0	325	0.011	0.279	140 (4)	140 (4)	06-03	06-05	06-07	06-09	06-10	06-11	06-13	06-15						
09	10.0	296	15.0	444	0.013	0.330	80 (6)	80 (6)	09-03	09-05	09-07	09-09	09-10	09-11	09-13	09-15						
12	11.7	346	20.0	591	0.015	0.381	50 (12)	70 (8)	12-03	12-05	12-07	12-09	12-10	12-11	12-13	12-15	12-17					
14	13.3	393	24.0	710	0.016	0.406	50 (12)	70 (8)	14-03	14-05	14-07	14-09	14-10	14-11	14-13	14-15	14-17					
18	15.0	444	28.3	837	0.018	0.457	50 (12)	50 (12)		18-05	18-07	18-09	18-10	18-11	18-13	18-15	18-17					
20	16.7	494	35.3	1044	0.020	0.508	50 (12)	50 (12)			20-07	20-09	20-10	20-11	20-13	20-15	20-17	20-19				
25	20.6	609	41.6	1230	0.022	0.559	50 (12)	50 (12)			25-07	25-09	25-10	25-11	25-13	25-15	25-17	25-19				
30	25.0	739	53.3	1576	0.024	0.610	50 (12)	30 (20)			30-07	30-09	30-10	30-11	30-13	30-15	30-17	30-19				
40	33.3	985	66.6	1970	0.027	0.686	50 (12)	30 (20)				40-09	40-10	40-11	40-13	40-15	40-17	40-19	40-21			
45	38.3	1133	76.6	2265	0.029	0.737	50 (12)	30 (20)				45-09	45-10	45-11	45-13	45-15	45-17	45-19	45-21			
60	43.3	1281	86.6	2561	0.031	0.787	50 (12)	30 (20)					60-10	60-11	60-13	60-15	60-17	60-19	60-21			
68	50.0	1479	99.9	2954	0.035	0.889	50 (12)	30 (20)						68-11	68-13	68-15	68-17	68-19	68-21			
100	74.9	2215	168.2	4974	0.041	1.118	50 (12)	30 (20)									100-13	100-15	100-17	100-19	100-21	

= Special Order Required (Minimum of 25 tips per order) = Not Available

To order a tip, replace the crosses in 134-5xx-xx4 with the corresponding number from the chart above. (Example: 134-506-094 for a 06-09 tip). When ordering a 100 tip, use 134-xxx-xx4. (Example: 134-100-134).

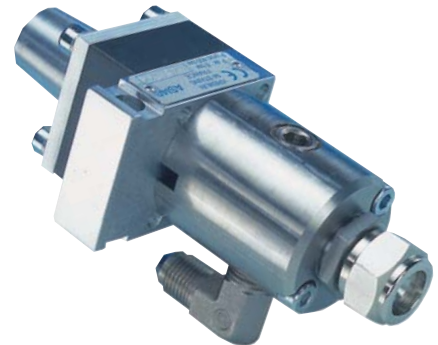
Double Grooved Tip



AIRLESS GUNS

ASI 24 / ASI 40 Guns

The Kremlin ASI 24 or 40 guns are great compact airless guns for high production applications.



SPECIFICATIONS

Weight:	25 ounces / 700 grams
Air Consumption:	Not Applicable
Trigger Air Port:	1/4" OD Tubing
Fluid Ports (x2):	M 1/2" JIC
Max. Fluid Pressure ASI 24:	3500 psi / 240 bar
Max. Fluid Pressure ASI 40:	5800 psi / 400 bar
Max. Input Air Pressure:	98 psi / 6.8 bar
Recom. Trigger Air asi 24:	60 - 70 psi / 4.00 - 4.83 bar
Recom. Trigger Air asi 40:	80 - 90 psi / 5.50 - 6.25 bar
Max. Fluid Temperature:	117° F / 47° C
Wetted Parts:	Stainless Steel
Airless Tips:	See page 23
Repair Kit #:	129-980-901
Material Sprayed:	Virtually all high viscosity materials

FEATURE		BENEFIT	
<ul style="list-style-type: none"> Equipped with two inlets No spring in the fluid passages Wide range of tips available 		<ul style="list-style-type: none"> Allows for circulation and saves money by eliminating the need for a two-way valve on color changes or flushing. Saves time and money by making it easier to clean, faster color changes, and less maintenance Provides a large selection of spray patterns to choose from 	
COMMON CONFIGURATION			
GUN MODEL		PART NUMBER	
Airless ASI 24 Gun without tip		129-980-000	
Airless ASI 40 Gun without tip		129-980-500	

AIRLESS GUNS

22

AS2 GUN



The Kremlin AS2 gun is a compact, lightweight, non-stainless, low pressure Airless gun and is ideal for installations with limited space requirements.

SPECIFICATIONS

Weight:	8 ounces / 250 grams
Air Consumption:	Not Applicable
Trigger Air Port:	1/4" OD Tubing
Fluid Ports (x2):	M 1/2" JIC
Max. Fluid Pressure:	1740 psi / 120 bar
Max. Input Air Pressure:	89 psi / 6.18 bar
Recommended Trigger Air:	60 - 70 psi / 4.00 - 4.83 bar
Max. Fluid Temperature:	117° F / 47.22° C
Wetted Parts:	Stainless Steel
Airless Tips:	See page 23
Repair Kit #:	Not Available
Material Sprayed:	Virtually all high viscosity materials

FEATURE		BENEFIT	
<ul style="list-style-type: none"> • Miniature Size • Wide Range of Airless Tips • Lightweight design • Possibility for circulation 		<ul style="list-style-type: none"> • Great for small systems with size restrictions • Provides many pattern choices • Makes it possible to mount more guns on a reciprocator without exceeding the weight limit • Saves money by eliminating the need for a circulation valve 	
COMMON CONFIGURATION			
GUN MODEL		PART NUMBER	
Airless AS2 Gun without tip		135-972-001	

AUTO GUN ACCESSORIES

Airless Tip Chart

Flat tips

High Precision spraying

Part number: 000-0xx-xxx (replace the xx-xxx with the correct number from the table below - they are engraved on the tips).



Product output at 2030 psi (g/min, 1/min)	Equivalent diameter (thousandth inches, mm)	Tip Diaphragm	Filter in handle (MESH)	Angle	30°	40°	50°	60°	70°	90°
				Width of fan in inches*	7	9	11	15	17	24
0.12	0.28	12	red (150)	Number engraved on the tip	00-607	00-609	00-611	-	-	-
0.17	0.33	15	red (150)		00-907	00-909	00-911	00-915	-	-
0.27	0.41	18	red (150)		01-407	01-409	01-411	01-415	01-417	-
0.40	0.50	20	yellow (100)		02-007	02-009	02-011	02-015	02-017	-
0.60	0.61	25	yellow (100)		03-007	03-009	03-011	03-015	03-017	-
0.88	0.73	33	white (50)		04-507	04-509	04-511	04-515	04-517	04-521

The diaphragm increases the fineness of the spray.

Part number: 000-029-1XX (replace the XX with the number of the diaphragm).

* measured at 30 cm. - 12 inches

AUTOMATIC GUN ACCESSORIES



1. STAINLESS STEEL BASE

PART NUMBER

- A. Stainless steel base for A25 - ATX without fitting 129-260-315
- B. Stainless steel base for A26 without fittings 129-267-050



2. INDEXED NEEDLE ADJUST KIT

PART NUMBER

- A. Indexed needle adjust kit A25 - A26 129-251-500



3. REMOTE ADJUSTING FAN WIDTH

PART NUMBER

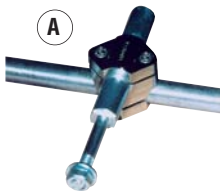
- A. Remote adjusting fan width A25 - ATX Gun 029-253-002
- B. Remote adjusting fan width A26 - A28 029-417-019
- C. Remote adjusting fan width A19 029-841-000



4. CIRCULATION FITTING

PART NUMBER

- A. Circulation fitting M14 x 125 x #5 JICM, For AR Gun 050-102-513
- B. Circulation fitting 1/4" NPTM x #5 JICM, Stainless Steel 668-668-822



5. MOUNTING SUPPORTS FOR ASI 24 / ASI 40 / AS2

PART NUMBER

- A. Mounting support for 5/8" OD Bar - 4" long, for ASI24 & ASI40 Guns 049-351-000
- B. Mounting support for 1/2" diameter - 2 1/2" long for AS2 Gun 049-351-600

AUTOMATIC GUN ACCESSORIES

 <p>A</p>	<p>6. MOUNTING SUPPORT PART NUMBER</p>
 <p>B</p>	<p>7. MOUNTING SUPPORT PART NUMBER</p> <p>A. Mounting support for (diam. 16 - length 100) comes with bar for A3 gun 049-351-200</p> <p>B. Mounting support with 1/2" diameter side bar for A25, A26, & ATX guns 049-351-700</p>
 <p>C</p>	<p>8. MOUNTING SUPPORT PART NUMBER</p> <p>C. Mounting support swiveling Gun bar for 1/2" rod for all automatic guns 049-351-705</p>
 <p>D</p>	<p>9. MOUNTING SUPPORT PART NUMBER</p> <p>D. Gun mounting bracket with bottom block for 1/2" rod for A25, A26, & ATX guns. 668-668-425</p>
 <p>E</p>	<p>10. MOUNTING SUPPORT PART NUMBER</p> <p>E. Gun mounting bracket, plate with 5/8" diameter bottom bar for A25, A26, & ATX guns 668-668-255</p>
 <p>F</p>	<p>11. MOUNTING SUPPORT PART NUMBER</p> <p>F. Insulated bracket for mounting inline filters and regulators 668-668-208</p> <p>G. Non-Insulated bracket for mounting inline filters and regulators 668-668-387</p> <p>H. Non-Insulated S/S bracket for mounting inline filters and regulators 668-668-375</p>

ELECTRONIC RECIPROCATOR

26

RFV 2000 Electronic Reciprocator

The Sames RFV reciprocator is designed with maximum reliability and performance. The roller-frame includes a roller-track for the displacement of the carriage which carries the sprayer support arms as well as the counter-weight. The reversing carriage is driven through a transmission chain by an explosion proof motor and a gear reducer on the base. From its carriage to its integrated frame/track, its motor to its motion sensor, all components of the RFV are designed and selected for years of reliable operation.



SPECIFICATIONS

1m Unit Height (Overall Height):	6'9" / 2100mm
2m Unit Height (Overall Height):	10'2" / 3100mm
3m Unit Height (Overall Height):	13'5" / 4100mm
Base Width / Depth:	30" x 60" - 750mm x 1500mm
Max. Speed:	195 fpm / 60m/min
Max. Payload:	70 lbs / 32 kg
Motor Size:	1 H.P.
Motor Voltage:	230/460, 3 Phase
Motion Sensor Control:	1 - 10 Volts DC
Gun Mounting Bar:	2" - 50mm Dia x 72" - 1828 mm long
Part Number:	Call for quote

RECIPROCATOR CONTROLS

REV 600 Electronic Reciprocator Control

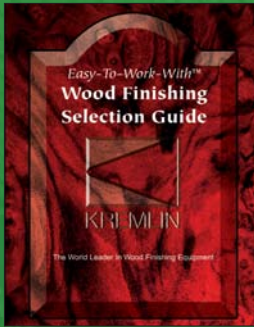
Control of 1 or 2 RFV reciprocators, part sensing/gun triggering, and an interface with a system I/O is all integrated into one stand-alone control unit. The REV incorporates a 5" (127mm) square monochrome terminal screen that allows for setting of lead/lag spray points, gun selection, and reciprocator speed and stroke length.

SPECIFICATIONS

Qty. of Reciprocators:	2
Qty. of Recip. Vertical Speed Zones:	6
Qty. of Guns:	3/ recip
Vertical Trigger Points:	3/ recip
Qty. of Spray Tables:	10
Part Type for Sensoring:	Solid "No Frames"
Max. Qty. of Photo Eyes:	1
Conveyor Tracking:	Time Based
Power Input:	230VAC (1 or 3 Phase)
Inputs:	E-Stop, external fault, part detection, spray booth ventilation, & conveyor
Outputs:	System ready, conveyor release & 6 gun triggers
Part Number:	Call for quote



OTHER CATALOGS



Wood Guide



Manual Electrostatic



Manual Airmix®



Fluid Delivery*



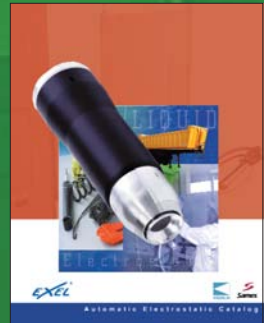
Glue & Adhesives Guide*



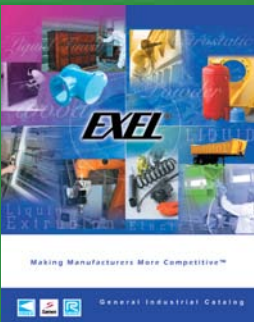
2 Component Systems*



Manual Airspray



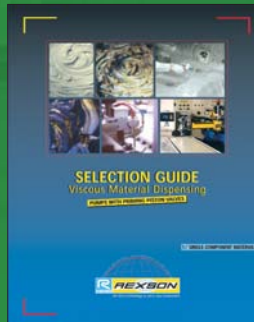
Automatic Electrostatics



General Industrial



Manual Powder Equipment



1 Component Extrusion



2 Component Extrusion*

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