



HVLP SPRAY GUNS

TDS / Directions & Application Information



The KBS HVLP Spray Gun and KBS HVLP Mini Spray Gun are professional grade, easy to use spray guns designed for water and solvent based paints, primers and clear coats. Both have a high quality stainless steel nozzle and needle, above 65% transfer efficiency, a smooth and comfortable trigger pull, consistent atomization and a large fan pattern.

To achieve expert results, please take the time to carefully read and understand the following directions before you begin your restoration project. These directions are meant to be general guidelines only and do not cover every application or environmental situation. If you have remaining questions or concerns, please contact us for technical assistance.

ALWAYS WEAR PROPER EYE, SKIN AND RESPIRATORY PROTECTION WHEN PAINTING. ALWAYS PAINT IN A WELL-VENTILATED AREA AWAY FROM OPEN FLAMES.

Consult the paint manufacturer's instructions and warnings. Please heed all warning and caution notices on all KBS products.

IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions must always be strictly followed to prevent damage to the gun and injury to the operator. Keep these directions for future reference.

1. Spraying certain materials produces toxic vapors that can cause intoxication and serious damage to health. Always wear protective eyewear, gloves and a respirator to guard against toxic vapors and to keep solvent and paint out of your eyes and off your skin.
2. Never use oxygen, combustible gas or any other bottled gas as a power source. Doing so could cause an explosion and serious personal injury.
3. Fluids and solvents can be highly flammable or combustible. Use the gun in a well-ventilated spray booth and avoid ignition sources such as smoking, open flames and electrical hazards.
4. Disconnect the gun from the air supply hose before maintenance and whenever it is not in use. A ball valve on the air supply near the gun is recommended for emergency stops and to prevent unintended operation.
5. Use clean, dry, regulated compressed air at the working pressure for your gun (see Air Supply). **Never exceed the maximum permissible operating pressure of 87 PSI (6 bar).**
6. Only use parts, nozzles and accessories recommended by the manufacturer.
7. Before operating the gun, make sure all screws and caps are securely tightened to prevent leaks.
8. Inspect the gun daily for free movement of the trigger and nozzle to make sure it operates properly.
9. Never use halogenated hydrocarbon solvents, which can chemically react with aluminum and zinc parts. Make sure all fluids and solvents are chemically compatible with aluminum and zinc parts.
10. Never modify the gun.

AIR SUPPLY

Both guns run on clean, dry compressed air at a regulated pressure. Working pressure is **20 to 45 PSI** for the KBS HVLP Spray Gun and **29 to 45 PSI** for the KBS HVLP Mini Spray Gun. Both guns have a 1/4 inch air inlet.

Compressed air contains moisture and other contaminants that can rust or wear the internal parts of the gun. A filter removes most of this foreign matter and prolongs the life of the gun. Use a filter and a pressure regulator located as close to the gun as possible.

CAUTION: Keep the air pressure within the working pressure range for your gun. Air pressure that is too low or too high can damage the gun and affect the finish.

PREPARING FOR WORK

1. Check for and replace any damaged or worn parts on the gun.
2. Make sure the trigger and nozzle operate properly.
3. Connect the gun to the air supply. The fluid cap, cup and air hose must be connected tightly to the gun.
4. Adjust the air pressure to suit the viscosity and characteristics of the paint, staying within the working pressure range for your gun.
5. Pour the paint into the cup.

GUN HANDLING

Proper handling of the gun gives you the desired finish.

1. Hold the gun perpendicular to the surface being sprayed, then move it parallel to the surface, pass after pass.
2. Start the stroke before pulling the trigger, and release the trigger before the stroke ends. This gives you control of the gun and the material.
3. Keep the gun **6 to 8 inches** from the surface being sprayed, depending on the atomization pressure and the work.

NOTE: To avoid excess paint output and get the desired pattern, use the lowest air pressure that does the job. See the diagram on page 2.

ADJUSTMENT

The desired pattern, volume of fluid output and fine atomization are easily obtained by regulating the Pattern Adjusting Knob, Air Adjusting Knob and Fluid Adjusting Knob.

MAINTENANCE

1. Pour the remaining paint into another container, then clean the paint passage and air cap. Spray a small amount of thinner through the gun to clean the passage. Incomplete cleaning will cause a poor spray pattern and particles in the finish. Clean two-component paints out of the gun fully and promptly after use.
2. Clean the other sections with the included brush soaked in thinner and with soft cloths.
3. Clean the paint passages fully before disassembly.
4. Remove the fluid nozzle only after removing the fluid needle set, or while keeping the fluid needle pulled back, to protect the seat.

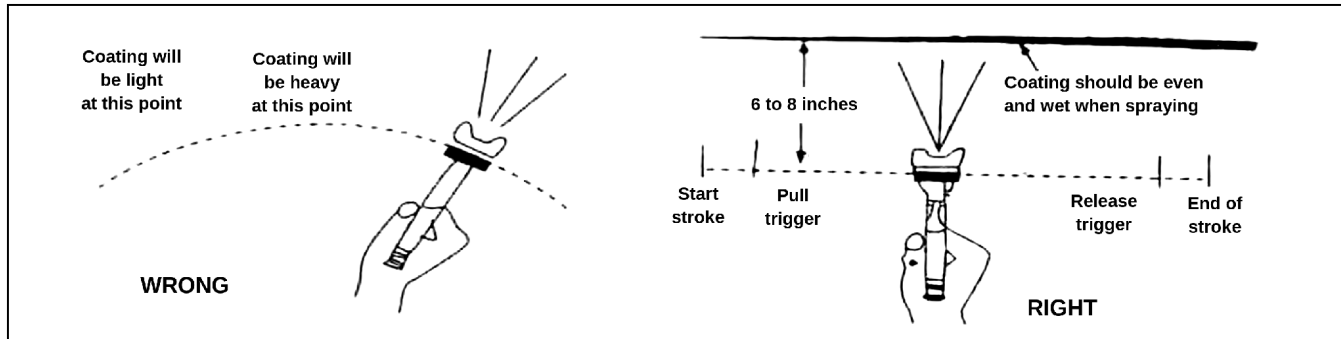
CAUTION

1. Never spray foods or chemicals through the spray gun.
2. Connect the fluid hose or cup to the fluid nipple tightly.
3. Never use wire or other hard objects to clean the nozzle or fluid needle. This will damage them.
4. Never immerse the whole gun in solvent such as thinner. This will damage the air cap, fluid nozzle and fluid needle.

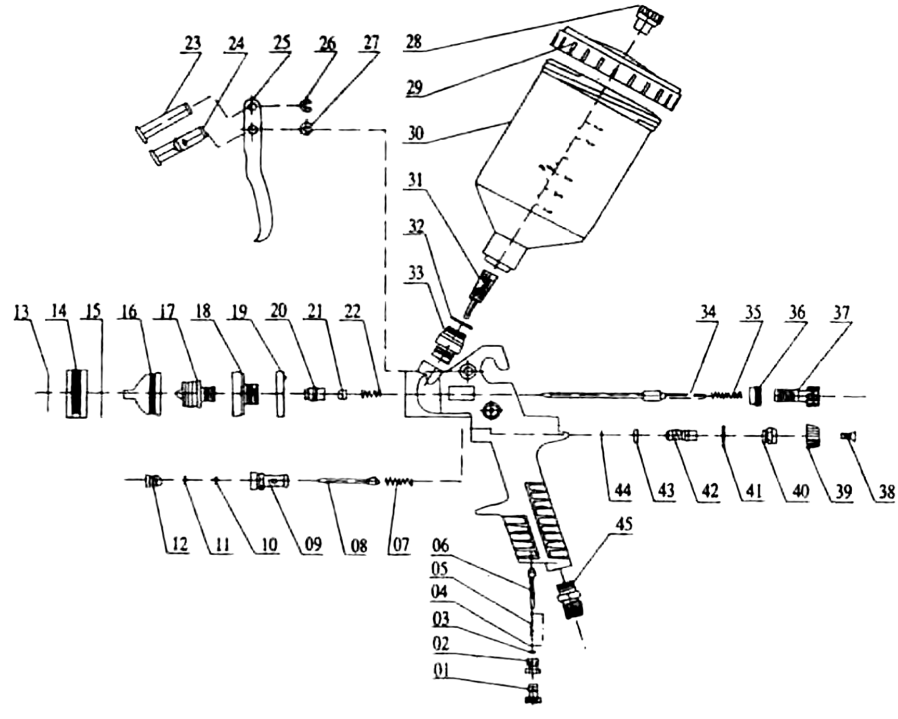
TECHNICAL DATA

	HVLP Spray Gun	HVLP Mini Spray Gun
Spray Tip	1.4mm or 1.8mm	1.0mm
Working Pressure	20 to 45 PSI	29 to 45 PSI
Air Consumption	6 CFM at 43 PSI	3 to 5 CFM at 29 PSI
Cup	600cc	125cc
Air Inlet	1/4 inch	
Transfer Efficiency	Above 65%	
Nozzle and Needle	High quality stainless steel	
Maximum Air Pressure	87 PSI (6 bar)	
Spray Distance	6 to 8 inches	
Included	Cleaning brush and wrench	

SPRAY STROKE



EXPLODED VIEW AND PARTS LIST

EXPLODED VIEW DRAWING		NO	DESCRIPTION	NO	DESCRIPTION
	23	24	Air Adj. Screw	24	Trigger Lever II
	24	25	Air Adj. Knob	25	Trigger
	25	26	O-ring	26	Snap Retainer
	26	27	Washer	27	Snap Retainer
	27	28	Air Valve Spring	28	Ventilator Head
	28	29	Air Inlet Valve	29	Cup Cover
	29	30	Switch Spring	30	Cup
	30	31	Air Valve Body	31	Filter
	31	32	Switch Knob	32	Fluid Inlet Joint Washer
	32	33	O-ring	33	Fluid Inlet Joint
	33	34	Pliable Washer	34	Fluid Adj. Needle
	34	35	Direction Screw	35	Fluid Needle Spring
	35	36	Spring	36	Joint
	36	37	Nut	37	Fluid Adj. Knob
	37	38	Fluid Cap Washer	38	Phillips Screw
	38	39	Atomization	39	Pattern Adj.
	39	40	Fluid Nozzle	40	Pattern Adj. Knob
	40	41	Fluid Nozzle Joint	41	Washer
	41	42	Joint Washer	42	Pattern Adj. Screw
	42	43	Direction Screw	43	O-ring
	43	44	Paint Needle Washer	44	Snap Retainer
	44	45	Locking Spring	45	Air Inlet Joint
	45		Trigger Lever I		

Information contained herein is to our knowledge true and accurate, but all recommendations or suggestions are made without guarantee. Since the application lies outside our control, we cannot accept any liability for the results. User shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith.

► SCAN ME

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