SPECIFICATIONS POWERSTROKE PLUS AIRLESS STRIPER

Part Number: PO-HPS2

GENERAL

These specifications cover the minimum specifications of a self-propelled, single line, single color, paint striping machine with high pressure airless paint system capable of applying traffic marking materials of all types, both solvent based and waterborne.

EQUIPMENT

- 1. **FRAME AND CHASSIS.** The frame shall be of channel and 1-1/16" OD tubular steel construction with compressor, hydraulic pump and engine, mounted on specially designed base measuring: length 66", width 37", and height overall 42".
- 2. **ENGINE.** The marking machine shall be equipped with a single cylinder, four cycle, air cooled gasoline engine, Honda GX-240 capable of developing not less than 8 gross horsepower at 3600 RPM. The engine shall be equipped with a large capacity 1-1/2 gallon all-steel gas tank. The engine shall be equipped with oil alert. The engine shall be overhead valve design. The line marking machine shall be equipped with an all-steel expanded metal belt and pulley guard.
- 3. **COMPRESSOR.** The compressor shall be twin-cylinder, single stage, air-cooled type with a displacement of not less than 13.6 CFM at 100 psi gauge pressure and 1800 rpm. The compressor shall be equipped with anti-friction Timken tapered bearings, positive splash lubrication, head unloader and provide sufficient air capacity for operating all components while maintaining a 50% air reserve at all times to facilitate long service life. The unit shall also be equipped with a heavy duty, braided steel main air line and an adjustable pilot controlled un-loader valve.
- 4. **HYDRAULIC SUPPLY PUMP AND RESERVOIR.** The unit will be equipped with a pressure compensated hydraulic pump to power exclusively the airless paint delivery system. The pump shall have a minimum capacity of 4.5 GPM at 900 RPM. Unit shall have an integral oil reservoir. Reservoir shall be constructed of aluminum and shall incorporate cooling fins. Reservoir shall be a two piece design with removable top to allow for easy tank clean up. Hydraulic system shall incorporate a replaceable, canister type oil filter. The hydraulic system shall include a built-in pressure adjustment valve to allow a full range of pressure adjustment from 300 PSI to 3000 PSI paint pressure. The pump will be equipped with a combination belt drive and coolant fan.
- 5. **AIRLESS PAINT PUMP.** The hydraulic paint pump shall be hydraulic powered, linear reciprocating piston pump. Paint output capacity shall be 2.00 GPM at 60 cycles. Piston rod and cylinders shall be hard chrome plated for corrosion and abrasion resistance. The pump packing shall be spring-loaded and use both ultra high molecular weight polyethylene and thiokol impregnated leather packing. (Mechanically driven airless pump assemblies that utilize a clutch are not acceptable and will not be considered.)

- 6. <u>HIGH PRESSURE AIRLESS PAINT FILTER.</u> One high pressure airless paint filter shall be provided. The filter will be piped directly to the outlet of the high pressure airless paint pump and feature a removable filter screen and check valve. The filter will have a filtration area of not less than 18 square inches. A pressure bleed valve will be provided complete with handle style knob and bleed hose.
- 7. **SUCTION STRAINER.** Suction tube will be equipped with a replaceable mesh strainer assembly connected to a stand pipe for inserting in a standard 5 gallon pail.
- 8. **PAIL HOLDER.** The unit will be equipped with a removable sheet metal pail holder. The pail holder will feature a solid bottom to prevent paint from being spilled onto the pavement.
 - The pail holder will accept a standard 5 gallon pail and equipped with a sheet metal lid assembly complete with handle and slot for stand pipe and bleed hose.
- 9. **SPRAY EQUIPMENT.** The unit will be equipped with one KC-700 airless spray gun complete with reversible tip. The striping gun shall be air actuated with stainless steel wetted parts for waterborne paint compatibility. Cable actuated guns shall not be permitted. The control hose leading to the striping gun will be solvent resistant nylon and the fluid hose will be high pressure airless spray hose 1/4" ID with static grounding cover. An additional hand operated spray gun complete with reversible tip and 50' of hose shall be provided for remote stenciling. Hose holding rings shall be welded to the machine to hold the 50' hose in a convenient place when operating the machine. The KC-700 spray gun shall be mounted outboard on the right or left of the machine on a lateral adjustable steel tube. The spray gun shall be adjustable up and down for varying line widths. The unit comes standard with one each HDPT-219, & HDPT-517 airless tips.
- 10. **WHEELS.** The rear wheels shall be not less than 4.00 x 8 tubeless type pneumatic equipped with 1" anti-friction roller bearings and mounted on 1" diameter axle. The front wheel shall be 3.00 x 5 tube type pneumatic tire equipped with 5/8" ball bearings. The front wheel axle will be equipped with adjustable axle to align wheels for straight line striping.
- 11. PNEUMATIC FRONT LOCKING SWIVEL WHEEL. The marking machine shall be equipped with a pneumatic actuated front locking swivel wheel. The operator can unlock the swivel wheel for turning the machine or radius striping and lock the wheel for straight line striping. A toggle type control valve shall be conveniently located on the right handle of the machine to engage and disengage the swivel lock. The unit will be equipped with a separate air regulator to control air pressure to the air cylinder lock. The swivel wheel assembly shall be equipped with a 1" thick machined aluminum base with slotted holes for adjustment. The air cylinder shall be captive on the aluminum block and feature a threaded stud with locking nuts to adjust the stroke.
- 12. **CONTROLS.** The striping gun(s) shall be controlled by a quick-as-a-wink (QAW) control valve located on the handle bar within easy reach of the operator. The control

- valve shall lock in the ON position as well as in the OFF position. Separate QAW valve shall be provided to actuate the pneumatic actuated traction mechanism.
- 13. **GUIDE ASSEMBLY.** The striping machine shall be equipped with an adjustable and retractable guide arm for retracing and guiding.
- 14. **TRACTION MECHANISM.** The marking machine shall be equipped with an automatic, air-actuated traction mechanism capable of propelling the unit at adjustable speeds of 1/2 to 5 miles per hour. The traction mechanism shall be actuated by a separate quick-as-a-wink control valve located on the handle bar within easy reach of the operator. The traction mechanism shall apply positive force to each rear wheel by means of a cast iron traction roller. Separate air cylinders for each rear wheel shall maintain constant and equal pressure to ensure straight lines. (Front wheel type traction or spring loaded, mechanical traction assemblies shall not be acceptable.).
- 15. **GROUNDING STRAP.** The unit will be equipped with a static grounding strip to dissipate any possible static electric buildup.
- 16. **PAINTING.** The line marking machine shall be painted Federal Highway Yellow
- 17. **GUARANTEE.** The line marking machine shall be guaranteed for a period of one year after the date of delivery against defective parts and workmanship.
- 18. **SERVICE MANAULS.** The unit will be equipped with operators, service and parts manuals. The parts manual shall include detailed parts drawings of all components with part numbers.

OPTIONAL EQUIPMENT

Paint Tanks	AC-1340-	A 7 or 12 gallon zero pressure paint tank will be provided in lieu of the pail holder. The tank will include a 10" lid assembly and material will draw from the bottom of the paint tank thru a 3/4" "Y" type strainer to the inlet of the high pressure airless paint pump. A shut off valve will be provided at the outlet of the tank for cleaning the strainer and a second drain valve will be provided to drain paint from tank. The tank lid will feature a bung for the pressure drain wand. 7 gallon all stainless steel paint tank with stainless steel
	SS AC-1345- SS	plumbing and "Y" strainer. 12 gallon all stainless steel paint tank with stainless steel plumbing and "Y" strainer.
Tank Agitators		
	AC-1130	Hand paddle agitator for 7 or 12 gallon tanks, plated carbon steel shaft with plastic paddles and hand crank.
	QM-1011- 1-SS	SS shaft for AC-1130 (recommended for latex material).
Striping Guns	AC-1350	One additional KC-700 automatic airless spray gun complete with hoses and additional manual control valve. The spay gun will be equipped with a separate gun bar to position the gun independently for varied line spacing. The spray guns will be capable of 12" space between striping guns. The spray gun shall be equipped with an HDPT-219 airless tip for spraying 4-6 inch lines.
Gravity Bead Dispenser		The bead dispenser shall be installed to operate automatically in conjunction with the striping gun by means of the same control valve. In addition, a shut-off valve shall be installed in the control line to the bead dispenser so that the striping gun may be operated independently. The bead dispenser shall be fully adjustable for the desired application ratio of pounds of beads per gallon of paint. The bead hopper shall be of 16 ga. sheet metal construction with a hinged lid with latch. The hopper shall be mounted on a structural steel tube permitting the unit hopper to be located on either side of the machine.
	AC-1051-6- P7	One (1) 6" gravity bead dispenser, 50# removable hopper, control and charging hoses installed on machines equipped.
	AC-1052-6- P12	Two (2) 6" gravity bead dispensers, 50# removable hopper, control and charging hoses installed on machines equipped with 12 gallon paint tank.

Pressure Bead		
System		
System	AC-1060-1 AC-1060-2	The pressure bead system shall be equipped with a 50# pressure bead tank complete with 10" lid assembly, air regulation system and moisture trap. One (1) KC-593B pressure bead gun shall be located behind the spray gun and will operate automatically in conjunction with the striping gun. The volume of beads shall be adjustable by altering pressure on the bead tank and adjustment of the needle stop in the pressure bead gun. The pressure bead system shall be equipped with a 50# pressure bead tank complete with 10" lid assembly, air regulation system and moisture trap. Two (2) KC-593B pressure bead gun shall be located behind the spray guns and will operate automatically in
		conjunction with the striping guns. The volume of beads shall be adjustable by altering pressure on the bead tank and adjustment of the needle stop in the pressure bead gun.
Engines	AC-1372	8 HP engine with electric, complete with battery and key start in lieu of recoil start engine. Required when adding an M40D skipline controller.
Skipline Controller	AC-1225	The unit shall be equipped with the Kelly-Creswell Mark 40D electronic skipline controller, no exceptions. The Mark 40D skipline controller shall control up to four paint and bead guns simultaneously; features include a bright 32 character digital LCD display, advance/retard with Posi-Cycle, single switch auxiliary paint/skip cycle, automatic calibration, speedometer/odometer, versatile three-mode pattern change preset, metric or US display, menu driven programming, heavy duty military specification components, non-volatile memory (no batteries required) and is equipped with totalizing digital footage counters. Controller (Requires AC-1372 electric start engine).
Parking Brake	AC-1211	One (1) hand parking brake assembly installed to secure the machine when unattended.
Operators Riding Trailer	AC-1250	Detachable stand on riding trailer complete with two each 3 X 5 wheel assemblies with foot brake.
	AC-1255	Detachable riding trailer complete with adjustable seat assembly, two each 3 X 5 wheel assembles and foot brake.
Transport Trailer	AC-1260	Model K transport trailer, single axle trailer complete with fold down ramp and tie-down straps for striping equipment.
Rotatable Side Delivery	AC-1180	Rotatable side delivery attachment equipped with a separate, angle iron side delivery bracket with rotatable feature to allow painting both horizontal and vertical surfaces.

Spare Parts	PO-HDPS-	Spare parts inventory including KC-700-RBK rebuild kit for
Inventory	Minor	KC-700 spray gun, two additional HDPT-01 tip guards,
_		5-1-150 one quart pump lubricant, 700-889 winterize kit for
		pump, 930-006 replacement high pressure filter cartridge,
		KC-126-1 paint tank lid gasket, GC-25-A cleaner can lid gasket.
	PO-HDPS-	Spare parts inventory recommend for export customers includes
	Major	Minor kit plus, 6247 6' airless hose assembly, 6242 50' airless
		hose assembly, complete set of belts, 8-5-220 rebuild kit for
		hand spray gun, 144-050 packing kit for airless pump, 6196 two
		each rear wheels, 6197 one each front wheel assembly, 333
		diaphragm for traction mechanism, PT10004 15' nylon tubing,
		GX-240 AF engine air filter, BPR6ES spark plug, 451-220
		hydraulic filter.
Crating	PO-Crate	Crating charge for all portables shipped common carrier.
		Includes heavy wooden skid with protective frame.
	PO-Crate-	Fully enclosed wooden box fabricated, 7/16 OSB wood.
	Export	





