SPECIFICATIONS FOR A SINGLE-COLOR, SINGLE LINE ROADWAY PAINT MARKING MACHINE

HEAVY DUTY MODEL C

Part Number: PO-HDC

GENERAL

These specifications are to cover the minimum specifications of a single line, single color paint striping machine capable of applying traffic marking materials of all types, both reflective and non-reflective.

EQUIPMENT

- FRAME AND CHASSIS. The frame shall be of channel and 1-1/16" OD tubular steel construction with compressor and engine, mounted on specially designed base measuring: length 58", width 37", and height overall 42". The front wheel shall be offset to the right side of the machine.
- 2 <u>COMPRESSOR.</u> The compressor shall be twin-cylinder, single stage, air-cooled type with a displacement of not less than 11.4 CFM at 80 psi gauge pressure at 1,040 rpm. The compressor shall be cast iron and equipped with anti-friction tapered bearings, lubrication 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 be equipped with a heavy duty, braided steel main air line and an automatic pressure un-loader valve to maintain air pressure in the system constant.
- 3 <u>ENGINE.</u> The marking machine shall be equipped with a Honda Model GX-160, single cylinder, four cycle, air-cooled, over head valve gasoline engine, capable of generating not less than 5.5 gross brake horsepower at 3600 RPM. The engine shall be equipped with a dual air filter element and with a transistorized magneto-ignition system. The engine shall be equipped with an oil alert system and automatic shutdown to prevent damage due to low oil. The engine shall be environmental compliant in all 50 states. The engine will have recoil start engine and self contained gasoline tank
- 4 MATERIAL CONTAINER. The marking machine shall be equipped with a material container of not less than 7 U. S. gallon capacity which will be electrically welded, and measure 12" in diameter and be of carbon steel construction. The tank tested to withstand an internal working pressure of not less than 110 PSI and shall be equipped with a drain off line and ball valve to completely empty the tank in a convenient spot outside the frame. A tank shut off ball valve at the bottom of the tank shall also be provided. The material container shall be mounted in a vertical position, directly behind the compressor and engine. The tank

lid shall be not less than 10" in diameter and of ASME construction. A solvent resistant gasket shall be held in place with four forged steel clamps and wing bolt assemblies.

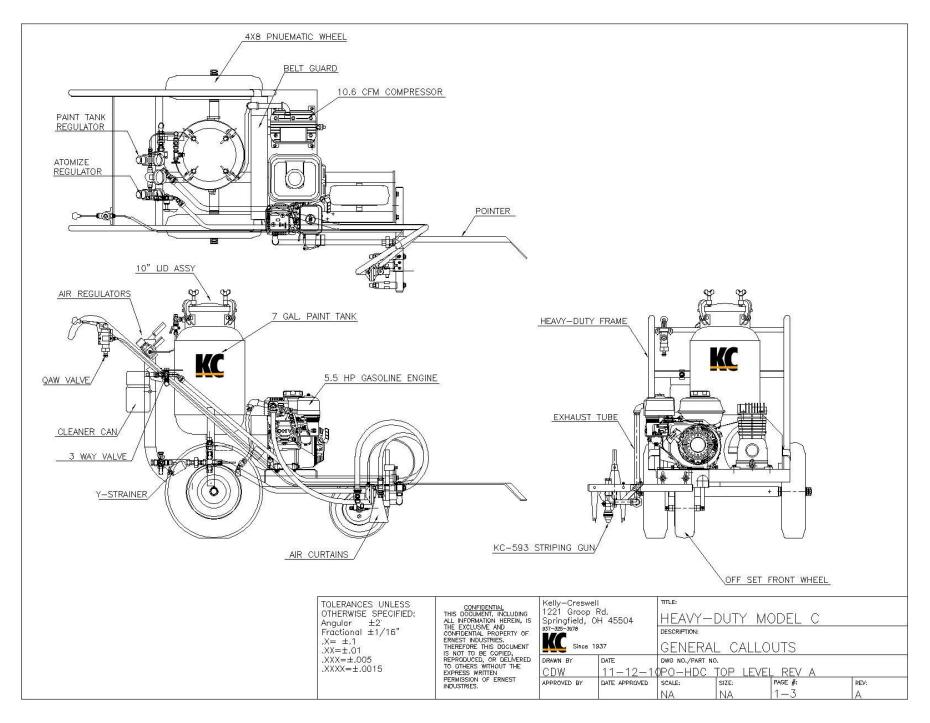
- SPRAY EQUIPMENT. The spray system shall include one automatic air actuated KC-593-SS spray gun, designed specifically for application of traffic paints. The spray gun and material container shall be further equipped with separate, non corrosive type regulators to maintain paint tank pressure and atomization air to the striping gun. The spray gun shall be automatic, diaphragm-operated, internal mixing, bleeder type capable of applying 3" to 9" lines. The spray gun shall be equipped with a hardened satellite air cap capable of spraying both reflective and non reflective type paints. The spray gun shall be further equipped with air curtain assembly to insure sharp line definition. The striping gun shall apply square beginnings and endings in uniform application and perfect cross distribution. The spray gun shall be mounted outboard on the right front corner of the machine. All hoses (control, atomizing and fluid) to the striping gun shall be the solvent-resistant and equipped with reusable type fittings.
- STRAINER. A "Y" type strainer shall be installed in the paint supply line to insure the removal of skins and other foreign matter from the gun paint supply. The strainer shall be mounted directly under the paint tank complete with isolation ball valve for service while maintaining paint in the tank. The strainer shall be positioned for easy access to the operator.
- WHEELS. The rear wheels shall be not less than 4.00 x 8 tube type pneumatic equipped with 1" anti-friction roller bearings and mounted on 3/4" diameter axle. The front wheel shall be 3.00 x 5 tube type pneumatic tire equipped with 5/8" ball bearings. The rear axle assembly shall be spring-loaded with adjustable tension to lock rear wheels for straight striping. The front axle shall be adjustable to insure straight tracking.
- 8 <u>CLEANER EQUIPMENT.</u> The striper shall be equipped with an automatic pressure cleaner mechanism of not less than one quart capacity. The cleaner system shall be equipped with an atomizing head for the automatic flushing of atomized cleaner solution to the sprayhead assembly of the striping gun(s). The pressure cleaner mechanism shall be valved to flush cleaner solution through the fluid line to the striping gun(s) while maintaining paint in the tank.
- 9 <u>CONTROLS.</u> 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.
- HOSES. All material hoses shall be solvent-resistant with standard thread reusable fittings. Material hose: ½" ID; atomization hose 1/4" ID; control hose 1/4".
- 11 **BELT GUARD.** The line marking machine shall be equipped with an all-steel expanded metal belt and pulley guard.
- 12 **PAINTING.** The line marking machine shall be painted Federal Highway Yellow.

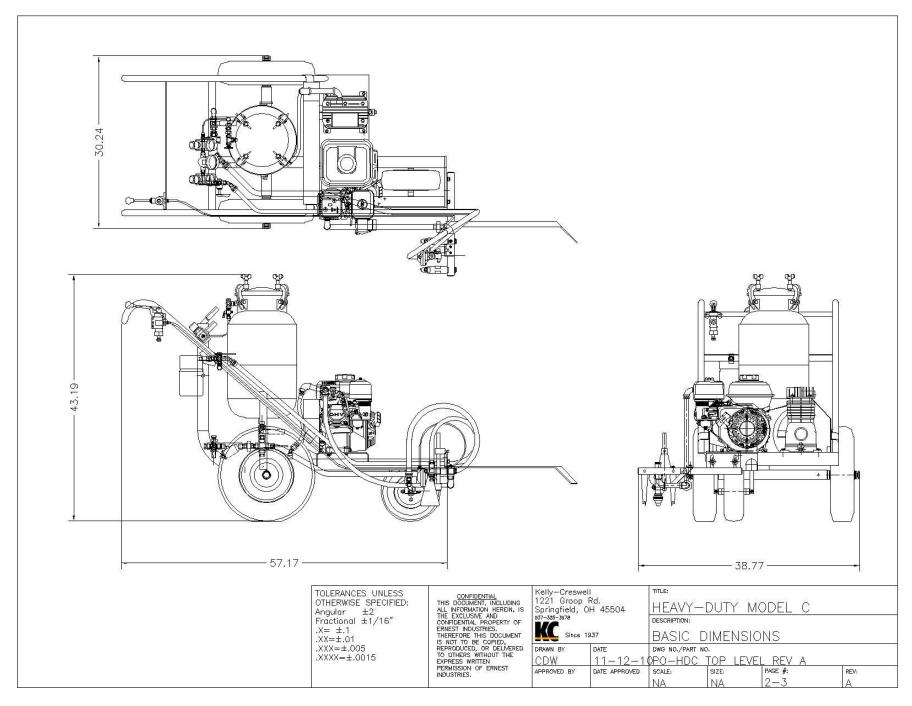
- 13 **GUARANTEE.** Kelly-Creswell products carry a one year warranty against defective parts and workmanship.
- SERVICE MANUALS. One complete set of operating instructions and a repair parts list shall be delivered with the unit including detailed parts drawings with part numbers.

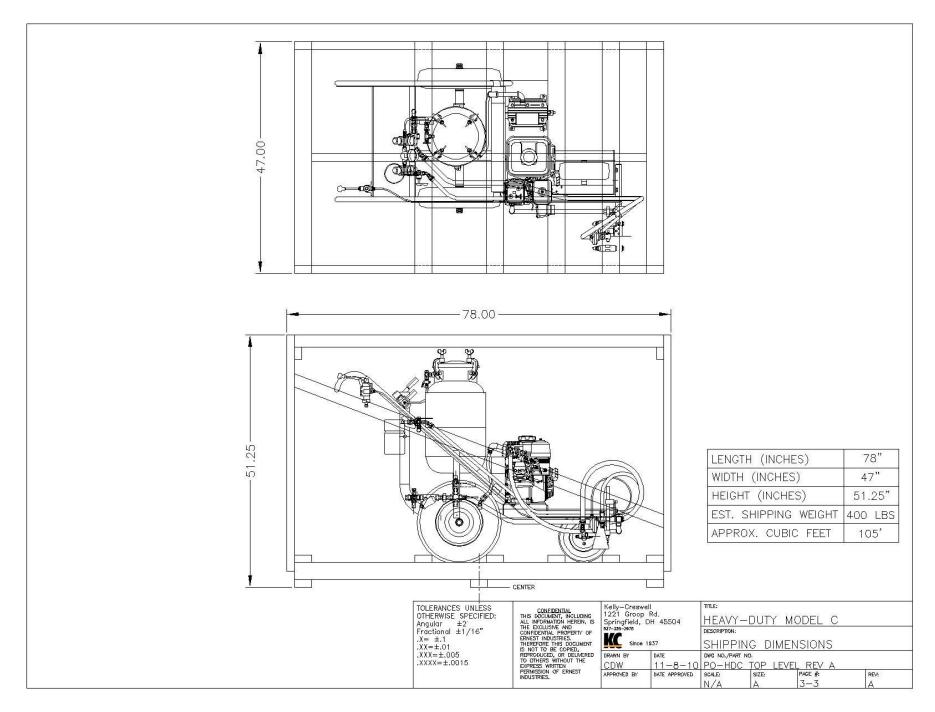
OPTIONAL EQUIPMENT

Latex	PO-HDC-SS	See specs for PO-HDC-SS.
Compatible		
Frame	AC-1321	HDC built on HDCT Frame: The frame shall be of channel and 1-1/16"
		OD tubular steel construction with compressor and engine, mounted on
		specially designed base measuring: length 58", width 37", and height
		overall of 42".
Compressor	AC-1320	13.6 CFM Compressor with head un-loader and 13" flywheel built on HDCT
		Frame, requires AC-1321.
Engines	AC-1371	Honda GX-160 5.5 gross HP with electric start and 12VDC battery in lieu of
		standard. Required when adding a M40D skipline controller.
	AC-1207	Honda GX-240 8 gross HP engine, recoil start in lieu of standard.
	AC-1372	Honda GX-240 8 gross HP engine with electric complete with battery and key
		start. Required when adding a M40D skipline controller.
Material	AC-1100	12-Gallon, carbon steel tank, non-code, with 10" lid assembly in lieu of
Container		standard 7 gallon.
Spray	AC-1160	KC-593 NBSSF, non-bleed with tip flush in lieu of standard bleeder type
Equipment		striping gun. (recommended for latex paints).
	AC-21NB	Bink's 21 non-bleed gun in lieu of standard (no tip flush capability).
	AC-21B	Bink's 21 bleeder gun in lieu of standard.
Agitator	AC-1130	Hand paddle agitator for 7,12 & 17 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).
Gravity Bead		The bead dispenser shall be installed to operate automatically in conjunction
System		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.
	AC-1051-6-C7	One (1) 6" gravity bead dispenser, 40# bead hopper, control and charging hoses
		installed on machines equipped with a standard 7 gallon paint tank.
	AC-1051-6-C12	One (1) 6" gravity bead dispenser, 70# bead hopper, control and charging hoses
		installed on machines equipped with 12 gallon paint tank.
Pressure		
Bead System		

	AC-1060-1	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.
Hand Gun	AC-1010-2	Hand paint spray gun complete with 20' of 3/8" fluid hose, 20' of 5/16" air
Assembly	A.C. 1040	hose, hand gun valves, fittings and Bink's 2100 hand gun.
	AC-1040	Bink's 2001-B Hand Bead Gun with 20' Hose (Requires AC-1060-1).
G1 : 1:	AC-1020	Hand Gun Take Off Valves Only, Black Pipe.
Skipline Controller	AC-1225	The unit shall be equipped with the Kelly-Creswell Mark 40D electronic
Controller		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-1371 or AC-1372 electric start engine).
Swivel	AC-1230	One (1) separate, retractable 3.00 X 5 pneumatic swivel wheel assembly
Wheel		(manual lift) installed for painting tight curves and circles.
Assembly		
Hand Parking Brake	AC-1211	One (1) hand parking brake assembly installed to secure the machine when unattended.
Rotatable	AC-1180	Rotatable side delivery attachment equipped with a separate, angle iron side
Side Delivery		delivery bracket with rotatable feature to allow painting both horizontal and
		vertical surfaces.
Spare Parts	PO-HDC-Minor	Spare parts inventory including KC-143 needle kit for striping gun, tank gasket,
Inventory		cleaner tank gasket, 15' 1.4" nylon tubing.
	PO-HDC-Major	Spare parts inventory recommended for export customers includes Minor kit
		plus, KC-145 tip repair kit, complete set of belts, spare rear wheel, spare front
		wheel, replacement air regulator, replacement 100# gauge, replacement 160#
	DO Crot	gauge, replacement three way valve, complete set of fluid & air hoses.
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	Turry enclosed wooden box fauricated, 7/10 OSB wood.
	Export	







KELLY-CRESWELL PO-HDC REV C