

**SPECIFICATIONS FOR A
HEAVY DUTY C W/ TRACTION
Stainless Steel Tank, Non-Bleeder/Flush
Part Number: PO-HDCT-SS (air actuated traction drive)
Part Number: PO-Hydro-SS (hydrostatic wheel drive)**

GENERAL

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

EQUIPMENT

1. **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".
2. **ENGINE.** The marking machine shall be equipped with a single cylinder, four-cycle, air-cooled, gasoline engine capable of developing not less than 5.5 gross horsepower at 3600 RPM. The engine shall be equipped with a large capacity 1 ½ gallon all-steel gas tank, tapered anti-friction roller bearings and built-in flywheel magneto for fast starting.
3. **COMPRESSOR.** The compressor shall be twin-cylinder, single stage, air-cooled type with a displacement of not less than 13.1 CFM at 80 psi gauge pressure and 900 rpm. The compressor shall be equipped with anti-friction Timken tapered bearings, positive splash 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 compressor will further be equipped with head unloaders and adjustable pilot control valve to unload the compressor when there is no demand for air. The compressor shall be of cast iron construction, manufactured in the USA, Quincy Q3 or equal. The unit shall also be equipped with a heavy duty, braided steel main air line.
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 stainless steel construction, minimum grade 304. 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. All plumbing coming in direct contact with paint shall be of stainless steel construction, minimum grade 304.

5. **SPRAY EQUIPMENT.** The spray system shall include one automatic air actuated KC-593-NBSSF 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, non-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 will further be equipped with automatic tip flush capability in the non-bleeder mode. The spray gun shall be equipped with air curtain assembly to insure sharp line definition. The striping gun shall apply square beginnings and endings in uniform application with 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.
6. **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 and screen shall be of all stainless steel construction with re-usable nylon gasket. The strainer shall be positioned for easy access to the operator.
7. **WHEELS.** The rear wheels shall be not less than 4.00 x 8 tube type pneumatic equipped with 1-3/8" 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 axle shall be adjustable to insure straight tracking
8. **CLEANER EQUIPMENT.** The striper shall be equipped with an automatic pressure cleaner mechanism of not less than one quart capacity. The mechanism shall be equipped with an atomizing head for the automatic flushing of atomized cleaner solution through the atomization line to the spray head assembly of the striping gun. In addition, the pressure cleaner mechanism shall be valved to flush cleaner solution through the fluid line to the striping gun.
9. **CONTROLS.** The striping gun(s) shall be controlled by a quick-as-a-wink control valve located on the handle bar within easy reach of the operator.
10. **HOSES.** All material hoses shall be nylon type with standard thread reusable fittings. Material hose: 1/2" ID, atomization hose 3/8" ID, control hose 1/4" ID.
11. **GUIDE ASSEMBLY.** The striping machine shall be equipped with an adjustable and removable guide arm for retracing and guiding.

12. **SELF PROPELLED DRIVE SYSTEM.** Select 12A for standard air actuated traction drive (PO-HDCT-SS) or 12B hydrostatic drive (PO-Hydro-SS).

12A. 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 3 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, equal pressure to ensure straight lines. Front wheel type traction shall not be acceptable.

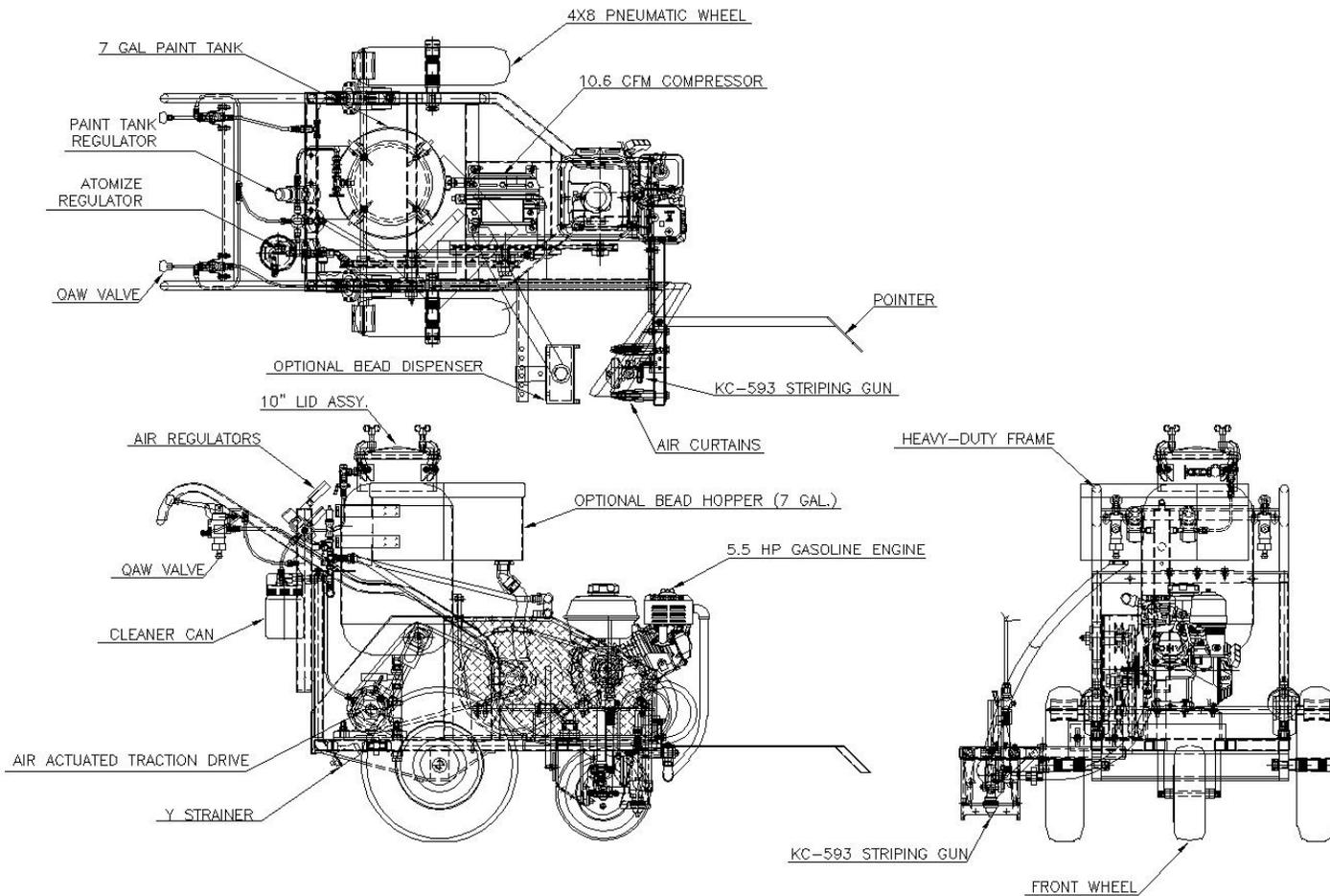
12B. HYDROSTATIC DRIVE. Hydrostatic drive system in lieu of traction drive, suited for hilly and rough terrain. Wheels are directly coupled to individual hydraulic drive motors powered by a separate closed loop hydraulic pump directly coupled to the gasoline engine. The drive system is equipped with a handle to control speed both forward and reverse.

13. **BELT GUARD** The line marking machine shall be equipped with an all-steel expanded metal belt and pulley guard.
14. **PAINTING** The line marking machine shall be painted Federal Highway Yellow.
15. **GUARANTEE** The line marking machine as specified herein shall be guaranteed for a period of one year after the date of delivery and acceptance against defective parts and workmanship.
16. **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

| | | |
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| Solvent Based Paint Compatible | PO-HDCT | See specs for PO-HDCT. |
| Double Paint Guns | PO-HDCT-2-SS | See specs for PO-HDCT-2-SS. |
| 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 assemblies and foot brake. |
| 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. |
| Material Container | AC-1110 | 12-Gallon, stainless steel tank, non-code, with 10" lid assembly in lieu of standard 7 gallon. |
| | AC-1120-SS | Double 7 gallon stainless steel paint tanks. |
| Spray Equipment | | |
| | AC-21NB | Binks 21 non-bleed gun in lieu of standard (no tip flush capability). |
| | AC-21B | Binks 21 bleeder gun in lieu of standard. |
| Agitator | 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). |
| 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. |
| | AC-1051-6-C7 | One (1) 6" gravity bead dispenser, 40# bead hopper, control and charging hoses installed on machines equipped with a 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 Assembly | | |
| | AC-1010-2 | Hand paint spray gun complete with 20' of 3/8" fluid hose, 20' of 5/16" air |

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| | | 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). |
| | AC-1020-SS | Hand gun take off valves only, stainless steel. |
| 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-1371 or AC-1372 electric start engine). |
| Swivel Wheel Assembly | AC-1230 | One (1) separate, retractable 3.00 X 5 pneumatic swivel wheel assembly (manual lift) installed for painting tight curves and circles. |
| Hand Parking Brake | AC-1210 | One (1) hand parking brake assembly installed to secure the machine when unattended. |
| 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 Inventory | PO-HDCT-Minor | Spare parts inventory including KC-143 needle for striping gun, tank gasket, cleaner tank gasket, 15' 1/4" nylon tubing. |
| | PO-HDCT-Major | Spare parts inventory recommended for export customers includes Minor kit plus, KC-145 tip repair kit, complete set of belts, (2) spare rear wheels, spare front wheel, replacement air regulator, replacement 100# gauge, replacement 160# gauge, replacement three way valve, complete set of fluid & air hoses, replacement diaphragm for traction mechanism. |
| Crating | PO-Crate | Crating charge for all portables shipped common carrier. Includes heavy wooden skid with protective frame. |
| | PO-Crate-Export | Fully enclosed wooden box fabricated, 7/16 OSB wood. |



TOLERANCES UNLESS OTHERWISE SPECIFIED:
 Angular ± 2
 Fractional $\pm 1/16$ "
 X = ± 1
 XX = ± 0.1
 XXX = ± 0.005
 XXXX = ± 0.015

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| CDW | 11-8-10 |
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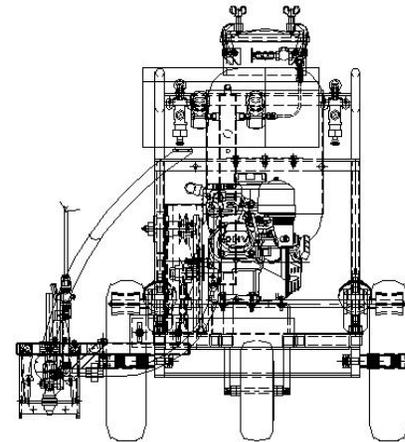
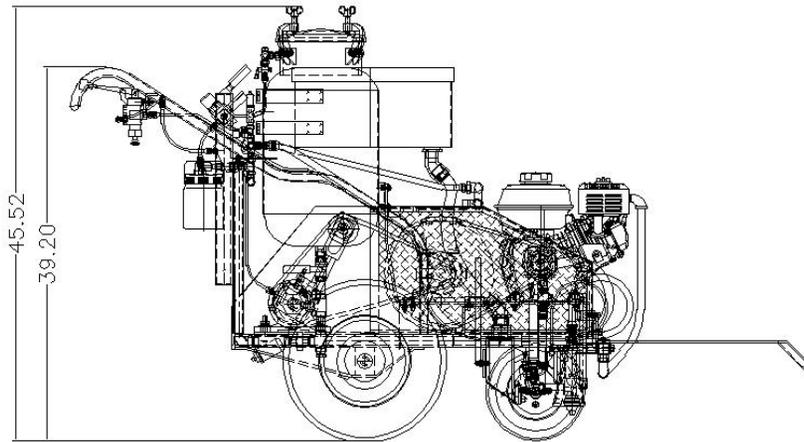
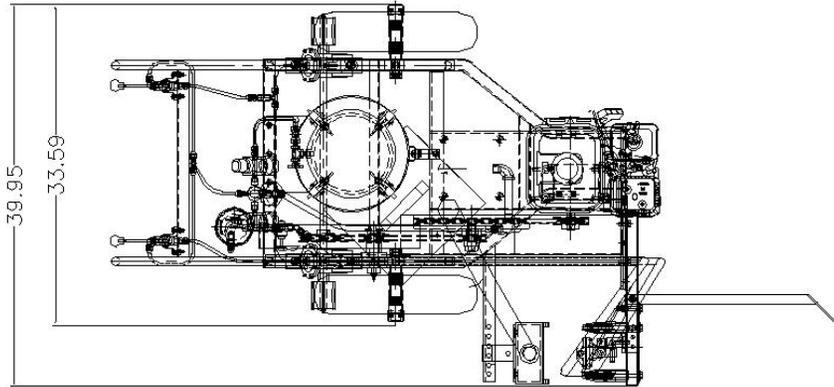
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 HEAVY-DUTY C WITH TRACTION

DESCRIPTION:
 GENERAL CALLOUTS

DWG NO./PART NO.
 AC-1051-6-T7

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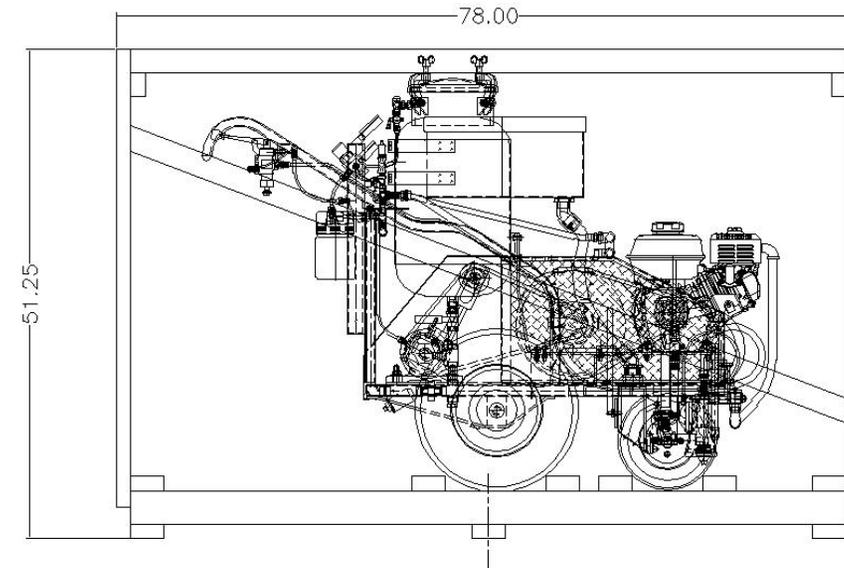
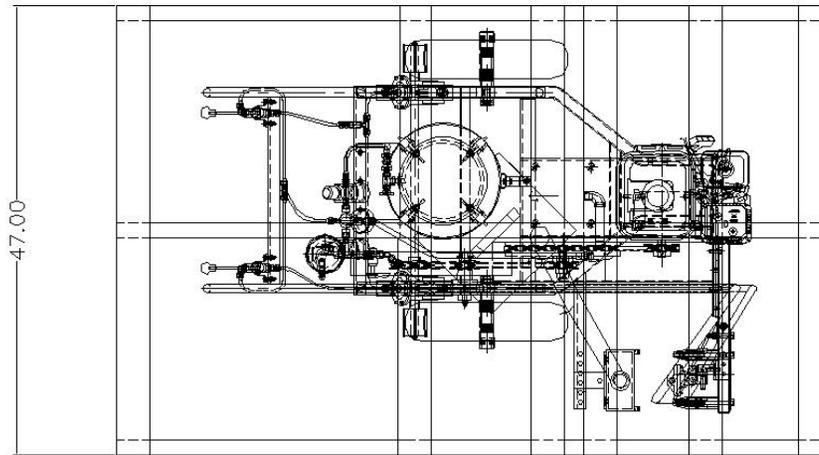
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DESCRIPTION: BASIC DIMENSIONS

DWG NO./PART NO. AC-1051-6-T7

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| LENGTH (INCHES) | 78" |
| WIDTH (INCHES) | 47" |
| HEIGHT (INCHES) | 51.25" |
| EST. SHIPPING WEIGHT | 400 LBS |
| APPROX. CUBIC FEET | 105' |

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