



Marathon

# BID SPECIFICATIONS HMT4000ODL

## MARATHON 2 TON ASPHALT HOT BOX

1	OVERVIEW	YES	NO
1.01	Shall be a new and currently produced tandem axle, diesel burner, oil jacketed heated, Asphalt Trailer/Haulers (hot mix transporter) trailer type with dump, and 1,814 kg (4,000lbs.) capacity.		
1.02	Trailer(s) that are classified as prototype, demonstrators and/or discontinued models shall not be accepted.		
1.03	Asphalt hopper and frame shall be of welded construction. A bolted designed hopper and frame construction shall not be accepted.		
1.04	The gross hopper capacity shall be 1,814 kg. (4,000lbs.) Specify hot asphalt mix cubic yard capacity. Specify: 1.55 cubic yards.		
2	<b>TRAILER – HOPPER FEATURES AND DIMENSIONS</b>		
2.01	Trailer frame shall be fully welded and constructed of heavy duty six (6) inch channel iron. Tubular trailer frame will not be accepted.		
2.02	Heavy duty tandem axle trailer with a maximum axle rating of <b>4,716 kg. GAWR.</b>		
2.03	Slipper spring suspension shall have a maximum rating of <b>2,358 kg. GVWR</b> on axle.		
2.04	All-season radial tires with heavy duty rims rated for the maximum GVWR of the asphalt trailer shall be provided. <b>Specify Make:</b> Carlisle <b>Specify Size:</b> 225/75-R15-D <b>Specify Model:</b> Radial Trial HD <b>Specify Load Range:</b> Load Index 2,535 lbs		
2.05	Tires and rims shall meet load requirement for the unit and its axle specifications.		
2.06	Hopper floor material shall be 10 GA reinforced steel.		
2.07	Hopper shall be hydraulically controlled using a 4 ton scissor lift unit and tilt to an angle of no more than 42 degrees.		
2.08	Two (2) Hopper doors shall be stainless steel with 2" fiberglass insulation. There shall be two (2) 12VDC electric linear actuators to open and close door with manual override. Hopper door dimensions are 27.5" x 70" EACH.		
2.09	Shall have one (1) 1/4" stainless steel construction, guillotine style, vertical sliding rear unloading door. Door opening shall be approximately 15" high X 21" wide with ratcheting latch to secure guillotine door open while in use.		
2.10	Fenders shall be fixed to the hopper and will tilt with the hopper. The fenders are manufactured with nonslip checker plate material. Fenders designed to eliminate the use of mud flaps.		
2.11	Hitch shall be vertically adjustable from approximately 17" to 27". Hitch shall have forged steel pintle-eye of 3" I.D.		
2.12	The trailer shall have a 7-pin round (RV) trailer plug provided, wired to MTO standard trailer wiring diagrams. Trailer wiring shall extend four (4) feet after pintle-eye and must charge from towing vehicle.		

2	TRAILER – HOPPER FEATURES AND DIMENSIONS (CONTINUED)	YES	NO		
2.13	There shall be a minimum 30 Amp marine type automatic 120VAC battery charger to be secured within a waterproof and compartment in an accessible area on front of hopper. Battery compartment shall be supplied with drain and vent holes.  <b>Specify Make: Hoffman 12X10X5 Box – IOTA DLS30A Series M Battery Charger.</b>				
2.14	Hopper walls shall be a 10° sloped polyhedral shape to carry asphalt material to the shovelling platform.				
2.15	The shovelling platform shall be fabricated with stainless steel with dimensions of 44” (112cm) width x 18.5” (47cm) depth and the shovelling platform shall 26” (66cm) high from the ground.				
2.16	The outer front and rear walls shall be constructed of minimum 12 ga stainless steel construction.				
2.17	Unit will come equipped with a 3GAL. release agent bottle/sprayer.				
2.18	Unit will come equipped with a tool rack to hold (4) four tools with maximum of 2” diameter handles. The tool rack shall contain a compartment to contain debris from the tools.				
2.19	The material vat shall be constructed of minimum 10 ga steel construction and contain a non-permanent coat of paint to protect it during storage/transportation from manufacturer to end user. The material vat heated area is approximately 6,200 in <sup>2</sup> .				
2.20	The oil vat shall hold a capacity of 49USG/185L of heat transfer oil rated at 500°F / 260°C.				
2.21	The oil vat heated area is approximately 6,943 in <sup>2</sup> .				
2.22	The oil vat shall be constructed of minimum 10 ga steel construction.				
2.23	There shall be a drain located at the rear of the melter to allow for draining out heat transfer oil yearly. Specify: located underneath hopper.				
2.24	There shall be 1” ceramic insulation on all sides and bottom.				
2.25	There shall be a minimum of 12-gauge HRMS steel covering the outside wall of vat when completed.				
2.26	Tongue weight of 1000 lbs (453 kg) fully loaded hot box with all options. (Includes full tank of fuel and oil jackets at required level).				
2.27	Shall have a separate shovel rinse tank mounted in front curb side fender.				
2.28	There shall be a 10 lb. fire extinguisher with mounting bracket installed on machine.				
2.29	There shall be a minimum of 1 traffic cone holder installed at front of machine.				
3	<b>HEATING SYSTEM - DIESEL</b>				
3.01	The main burner shall be a 12-volt diesel-burner, maximum 165,000 BTU with electronic spark ignition and flame out protection.				
3.02	Fire-chamber shall be equipped with 1” ceramic fibre insulation.				
3.03	Unit shall have a safety shut off switch to disable burner when asphalt hopper is raised.				
3.04	Burner shall have digital automatic temperature control thermostat to control heat transfer oil temperature.				
3.05	Burner assembly shall have protective guarding or enclosure installed to protect burner from the elements.				
3.06	Shall be equipped with a 1500 watt/120-volt heater, fully immersed in the heat transfer oil to carry hot oil through to maintain even heat distribution overnight.				

3	<b>HEATING SYSTEM - DIESEL (CONTINUED)</b>	<b>YES</b>	<b>NO</b>
3.07	Diesel tank shall have a capacity of 30USG/113L. Diesel tank shall have a capacity of 10USG/37L Ontario only.*		
3.08	The diesel tank shall come with a labeled, vented fill-cap. The tank shall also have an accessible drain plug.		
3.09	The fuel tank shall be equipped with a mechanical fuel level indicator.		
3.10	Diesel tank shall tilt with the hopper, diesel tank to be mounted at front of the hopper, filler cap and fuel lines shall be protected against accidental impact damage from dumping of hot asphalt.		
3.11	Exhaust shall exit the heating chamber through a front mounted covered exhaust stack constructed of stainless steel.		
4	<b>LIGHTING AND SAFETY</b>		
4.01	Shall be equipped with a highway lighting package: four (4) light LED system for road safety located on rear left and right side of the trailer. Lighting shall include park, tail, signal, and brake lights with emergency 4-way capability.		
4.02	Shall be equipped with a amber strobe light to serve as a warning to proceed with caution.		
4.03	Battery master disconnect switch shall be installed on unit to prevent battery drain.		
4.04	All lighting must comply with DOT or equivalent requirements.		
4.05	All major components around the box shall be protected by brackets or shields against heated material and/or elements.		
4.06	All wiring and hoses shall be protected by ducts or looms from the elements, chafing and heat sources, using moisture and temperature resistance connectors.		
4.07	Exposed hot surfaces shall be adequately marked and identified, in English, e.g. "Caution- May Be Hot". French available upon request*.		
4.08	Hydraulic Power Pack shall be equipped with single 15ft pendant control.		
4.09	Shall have an audible alarm to advise operators that hopper is being lowered.		
4.10	For enhanced visibility and detection in low light conditions, two (2) inch wide red and white conspicuity tape, 983-32 NL (or equivalent) shall be applied to the sides and rear of machine.		
4.11	Shall be equipped with a green strobe burner indicator light to alert crew when burner is active.		
4.12	Must be equipped with an LED directional flashing arrow board that is compliant with SAE J595 Class 1. Specify: 50"L x 12.5"H x 2"D.		
5	<b>PAINT</b>		
5.01	The complete machine shall be cleaned of all weld spatter and oil for final painting.		
5.02	The machine shall be coated with epoxy primer and painted Urethane Black, standard colour on all steel surfaces. Stainless steel shall not be painted.		
6	<b>OPTIONS AVAILABLE</b>		
6.01	300,000 BTU Vapour propane torch with 15' propane hose & bottle holder.		
6.02	LED Work light installed (max 3).		
6.03	30-gal Non-Heated Tack Tank.		
6.04	30-gal Propane Heated Tack Tank, insulated.		
6.05	30-gal Diesel Heated Tack Tank, insulated tack tank with ATC.		
6.06	Power Spray System for Tack Tank c/w 5hp Engine, 10GPM pump, spray wand with 50' hose, 10-gal flushing tank and retractable hose reel. (*must select tack tank option from above).		

6	OPTIONS AVAILABLE (CONTINUED)	YES	NO
6.07	Tool Box installed on trailer.		
6.08	Compactor storage area with hoist and electric winch.		
6.09	2-5/16" Ball hitch (replaces pintle hitch).		
6.10	Slow Moving Vehicle Sign mounted on unit.		
6.11	Spare Tire & Rim, mounted to trailer.		
6.12	Hydraulic Surge brakes.		
6.13	Alternate Paint Colour (GREY, BLUE, ORANGE, YELLOW & RED).		
6.14	When selecting fully loaded options, an upgrade to tandem 9,000 lb torsion axles is required.		
7	<b>WARRANTY</b>		
7.01	The manufacturer will, for a period of twenty-four (24) months from the in-service date, repair or replace any faulty parts determined by an authorized Marathon representative to be defective. This excludes all parts/items which carry outside third-party coverage.		
7.02	The trailer frame, frame components and related workmanship is warranted for a period of five (5) years from the in-service date.		
7.03	This warranty applies only when the claim is approved by an authorized Marathon representative and repaired by an authorized repair facility approved and/or designated by Marathon.		
7.04	This warranty applies only when the equipment is used for its intended purpose and is properly maintained.		

**Specifications may change without notice.**