



H.D. INDUSTRIES, Inc.

Pro-Patch Pot Hole Patcher

P.O. BOX 8250 · JACKSONVILLE, TEXAS 75766 · (903) 586-6126 · www.pro-patch.com

ASPHALT POTHOLE PATCHER SPECIFICATIONS TRAILER MOUNTED MODEL TM 300-40 DHE

1. GENERAL

The **Pro-Patch** model TM 300-40 DHE LP Gas Heating System has a 3 cubic yard, 4 ton asphalt aggregate hopper with 40 gallon emulsion oil tank that is fully insulated with 2" industrial high temperature 12R factor insulation encased in a double jacket.

2. BODY DIMENSIONS

The body is 88" long, 45" high and 78" wide. Body has L.E.D. style stop, turn, emergency flashers and side marker lights. All electrical wiring shall be color coded, soldered, shrink wrapped in polyvinyl, and incased in conduit.

3. HYDRAULIC OPERATED STEEL TOP DOORS

Two (2) hydraulically operated bi-fold steel top doors with hex brake for rigidity. Doors are insulated with 2" of high temperature insulation in a double steel jacket. The doors have rain seal caps and flex plates to keep asphalt out of door hinges. Each door shall have a 1 1/2" bore with 13" stroke hydraulic cylinder with bypass and flow control valves. The controls for doors are at the rear of the unit.

4. HEATING SYSTEM

The body shall have a dry radiant heat chamber heated by 1 each 67,000 BTU retort tube propane burner with vertical exhaust stacks. The burner is thermostat controlled and regulated at 10 PSI. The ignition system is 12 Volt DC with electronic igniter with 12 volt battery. Gas burner has a safety shut-off on loss of flame or excessive high temperature. Thermostat will be 0/300° F solid state with digital temperature reading. Unit has 200,000 BTU hand torch with 10 ft. hose and hose rack.

5. DESPENSING ASPHALT MATERIAL

The asphalt hopper has a 9 foot long by 6" diameter, **hard surfaced** flight screw conveyor on 2" scheduled 80 pipe and is ball bearing mounted with an Anti-Bridge Device. Conveyor is driven by a 13,000 in. LB. torque variable speed hydraulic motor with forward and reverse. Unit shall have an asphalt chute with 180 Pivot.

6. ASPHALT AGITATOR

The agitator shaft is built into the premix hopper and designed to break up asphalt bridging due to vibratory compaction. The scheduled 160 shaft has 12 spikes and is ball bearing mounted and driven by a 13,000 in.lb. Torque variable speed hydraulic motor with forward and reverse. *All bearings can be greased through a feeder line mounted outside the unit from ground level.*

7. TACK OIL TANK CAPICITY AND HEATING SYSTEM

The tank, built onto the main body, has a capacity of 40 gallons and a double steel jacket with 2" insulation. The tank has a 110 volt, 500 watt, Electric Heater. *The liquid asphalt pump and all lines are in an insulated heated area with an 8" fill cap and a 1" drain.*

8. HYDRAULIC OIL COOLER

An AKG hydraulic oil cooler with shroud. Fan operates on 12 vdc and is thermostat controlled at 115° F.

9. LIQUID ASPHALT OIL PUMP

A hydraulically driven, 1 1/2" self-priming, variable speed, reversible, rotary gear pump with relief valve with Pressure Gauge. Operating at 20 GPM at 1200 RPM, 100 PSI. *Pump and all oil lines are in an insulated heated area.* The pump will circulate the emulsion oil to prevent separation and to crush any lumps that may form and cause clogging of the spray tip. *Air injection systems do not have this capability.*



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10. **HYDRAULIC CONTROL VALVE – U.S. PATENT NO. 7037034**
Five spool, two-way, variable flow with 2200 PSI relief valve. The valve controls hydraulic screw conveyor, asphalt agitator, and liquid asphalt pump. Hydraulic Tool Circuit and Hydraulic Doors. **The valve has an internal or external safety design that will protect the operator and not allow the screw conveyor or asphalt agitator to operate when the doors are open.** This system is designed to divert hydraulic oil pressure back to the tank. Electric solenoids on hydraulic valve are not acceptable due to mechanical override feature and ease of bypassing system. The valve is operated from the rear of machine by remote levers. To reduce maintenance problems the main directional control valve stack has no electric solenoids.
11. **STROBE LIGHT**
A pedestal mounted Meteorlight model SY2000 amber, 80 double flashes per minute.
12. **LED ARROW STICK**
Arrow Stick Superior Signal SY900 50-LED
13. **MAXXIMA STT RECTANGLE 6.5" OVAL TAIL LIGHTS**
LED RED, CLEAR, AMBER, & STROBE tail lights
14. **LIFTING EYES**
Four (4) Each Lifting eyes.
15. **TRAILER**
Trailer is 72" wide and 176" long. The trailer frame is constructed of 2" x 6" x 3/16" rectangular tubing. The tongue is 3" x 4" x 3/8" rectangular tubing. The deck is 1/8" tread plate. Trailer has solid steel wheel with dual 10,000 LB. axles, **electric brakes**, 4 each 215/75R17.5 Load Range G tires, 7,000 LB swivel landing gear type tongue jack, 3" I.D. adjustable height **LUNETTE pintle hitch eye** with (2) 3/8" safety chains 36" long with hooks. Electric brakes shall have a safety break away. Shall have a 6 pin trailer connector. Trailer shall have safety reflector tape on all sides. **With 4 Lifting Eyes.**
16. **KOHLER DIESEL ENGINE**
23.5 HP 3,000 RPM water cooled diesel, three (3) cylinder, and 12 volt electric DC starter. 45 amp alternator, 650 CA Battery with weather proof cover. Remote control panel consisting of glow plug warm intake assistance, water temp, oil pressure shut down with tachometer/hour meter. Engine shall have 15 gallon diesel fuel tank. A 12 GPM hydraulic pump shall be direct mounted to the engine. Engine has rear mounted vernier cable throttle control.
17. **FUEL**
2 Each 100 LB. (25 gallon) removable DOT propane bottles, complete with quick fill connector and 10 PSI regulator.
18. **FUEL TANK**
15 Gallon Engine Fuel Tank
19. **TEMPERATURE GAUGES**
The Unit has two 3" dial type, stainless steel temperature gauges that constantly monitor the temperature of the asphalt hopper and road oil tank.



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20. **HAND TORCH**
For drying off repair site and cleaning hand tools, the unit has a 200,000 propane BTU hand torch with shut-off valve and 10' of hose with hose rack. Hand torch has mounting bracket for transport.
21. **DIESEL FUEL / RELEASING AGENT STORAGE TANK**
An 8 gallon capacity tank, equipped with a 1.6 gpm @ 60 psi 12 volt DC pump and a hand sprayer for cleaning tools and unit. There shall be a connector valve for flushing road oil pump and lines and a 1" drain. For easy hopper cleaning access and to spray hopper before loading.
22. **LIQUID ASPHALT HAND SPRAYER**
A 5' x 3/8" wand, equipped with fan nozzle and Deadman Control Valve. Sprayer hose is 12' X 1/2" with a reversible pump and diesel flush system for cleaning pump and lines.
23. **HYDRAULIC OIL RESERVOIR**
30 gallon capacity with sight and temperature gauge, ventilated fill cap, 150 micron sump strainer and a 10 micron return filler with 1" gate cutoff valve at filter.
24. **HYDRAULIC HOSE AND FITTINGS**
All high pressure hoses and crimped fittings have a minimum of 9600 PSI burst pressure.
25. **CONSPICUITY TAPE**
Conspicuity Tape on all sides of the unit.
26. **DRIP PAN**
An eight (8) gallon drip pan for waste oil combination, for flushing pump, spray wand and lines at the end of the work day, with necessary valve for draining.
27. **WATER TANK**
A frame mounted stainless steel ten (10) gallon tank with valve and hose.
28. **CONSPICUITY TAPE**
Conspicuity Tape on all sides of the unit.
29. **DIESEL FUEL HOSE REEL**
Hose reel for diesel fuel spray wand has 20' of hose. Reel is spring loaded auto-retractable.
30. **HYDRAULIC TOOL LINE HOSE REEL**
Shall be 3000 PSI with dual 25' hydraulic tool lines. Reel is spring loaded auto-retractable.
31. **VIBRATORY COMPACTOR PLATE**
A Wacker WP1550AW Compactor equipped with a 5.5 hp gasoline Honda Engine with auto oil alarm shut down. Operating weight is 196#, centrifugal force 3375#, plate size 19.5 x 23", a water tank and locking holding down brackets. Dolly Attachment Part No. – 0162986
32. **ELECTRIC HOIST**
A 12 volt 1 1/3 hp electric hoist is available for loading or unloading the vibratory compactor plate.



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33. **PAVEMENT BREAKERS**

Stanley Pavement Breaker, complete with quick couplers, asphalt cutter with lockable transporting bracket.

34. **ASPHALT LUTE AND SHOVEL HOLDER**

Two (2) spring loaded asphalt lute and shovel holders, mounted curb side of unit.

35. **COLOR**

Standard color is Gloss Black.

36. **SERVICE MANUALS AND TRAINING**

H.D. Industries, will furnish two (2) parts, service and operators manuals.

37. **WARRANTY**

H.D. Industries warrants the *Pro-Patch* Asphalt Pothole Patcher for a full twelve (12) months against defects in material and workmanship of the body and on all parts.