UNIBELT PATCHER - SPECIFICATIONS Model BC-4

These specifications describe a self-contained patch unit, which is permanently mounted to a truck chassis to be used for patching with hot asphalt.

Container:

Unit shall be 4 cubic yards

Double wall constructed

2" - 6 lb. density insulation throughout

3/16 GA HR steel interior sides, 10 GA HR steel exterior

Top loading lids have expansion corrugations

Top loading doors are 2" double wall constructed

Single hinged top lids open into a V with inside surface acting as a funnel

Flame cut upper pivot arms for top lids

All doors hydraulically operate by 2" x 11" stroke cylinders

Material funneled to center of container

Hydraulic system shall operate at 1500 PSI

Hydraulic controls located at right rear corner of te container

Sloping floor shall not be less than 45° from horizontal

Material shall be discharged by a belt over chain, 24" wide conveyor system

Conveyor system shall include high temperature, heavy duty, multiply, 18" wide Kevlar® belt riveted onto every other crossbar by four rivets

Belting shall have Wearquard® coating and sealed ends for lacing

Belt ends are spliced together with screw attached splicer bar

Belt shall be reinforced and designed to withstand 800°F and harsh cleaning solvents

Chain shall have crossbars on every other chain link of conveyor and shall have sprockets with a 1¾" shaft

Conveyor is driven through a gearbox by a hydraulic motor

Forward and reverse controls

3/8" Pintle chain shall be driven by a 25:1 right angle gearbox, and hydraulic high torque motor

Radiant Heater:

Heat tubes located under container

Interior heat chamber has passageways to direct heat

Passageways separate from heat chamber

Chamber totally enclosed inside container

Two propane fueled casted manifold burners with flume adjustment

Rating of 67,000 BTU each @ pressure of 10 PSI

Controlled by thermostat range of 100°F - 300°F

12 volt electronic igniters

100% fuel shut off if burner is extinguished

Burner area fully enclosed and located at front of unit safely away from rear operation

Hand Torch:

Pilot with valve control Capacity of 200,000 BTU 25 foot hose supplied

Shoveling Apron: Model 5

Constructed of 10 GA HR steel Folding bottom for material to bypass freely

Mounted on rear of container

Emulsion Spray Unit: Model BH-153-21

Emulsified Asphalt spray and storage system mounted on truck chassis for applying tack coat

Tank:

Two compartment tank
Storage capacity 130 gallon emulsion and 20 gallon solvent
10 GA steel with bottom reinforced
6" curbside filler cap
Tank dimension 72"W x 16"L x 30"H
4" clean out on curb side near tank bottom
Tank shall be vented
Removable fill basket strainer
Y strainer at discharge of tank before material enters pump
Capable of switching from emulsion to solvent with one valve lever

Heater:

Internal serpentines of 1" steel tubing to circulate water from truck engine Truck engine cooling system as a heat source Two 5/8" coolants hose
System will have a temperature control valve at tank with thermometer 0°F - 300°F

Auxiliary Electric Heat:

Equipped with 110 VAC heat system Over night heating, controlled by temperature sensor Heating elements shall be low-density stainless steel

Mounting:

Space required for mounting of tank is 22"
Spraying system shall be mounted in front of dump body
Mounting shall be accomplished with 2 full length mounts
Spring bolsters on one side of tank
Bolting to frame shall consist of 3 each side, ½"
No welding on truck frames will be accepted

Pump:

Rotary gear pump
Output of 10 gallons per minute of 600 R.P.M.
Pumps shall be hydraulic driven
All valves shall be high pressured
It shall be remote mounted for ease of maintenance
Mechanically actuated from right rear of body
Pump shall be reversible to draw material back to tank
Pump shall be driven by a torque motor, which has 5.9 CID

Spray Wand and Hose:

System should be plumbed to curbside rear of truck 3/8" diameter 5 feet long steel application wand shall be supplied 25 feet of ½" diameter oil resistant hose A brass changeable nozzle at spray tip Wand storage brackets

Drip Pan:

10 gallon drip pan/waste oil combination Mounted under patcher body Necessary valves for draining and cleaning

OPTIONAL EQUIPMENT

Auxiliary Electric Heat Patcher:

Low density electric heat Minimum 6KW, 240 VAC thermostatically controlled 100°F - 300°F Weatherproof Panel Overnight heating of asphalt 25 foot power cord

Compactor Lift Platform:

PB model 640

Constructed of 3/16" one piece formed plate with 2" lip on back and sides

1" pipe font pipe stop and two 2" channel rear stops, Reinforced with 3/16 HR angle on side corners Cylinder $1\frac{1}{2}$ " x 18" stroke, two 6" x 4" tube outside supports and 4" x 4" tube inside with internal rollers, located at rear unit

Optional Bomag® roller locking bracket

Roller Transport Device:

Rear mount lifting rack with two hydraulic 36" stokes cylinders. Designed to lift and carry single drum walk behind rollers

Hydraulic Tool Circuit:

25 foot dual hose Quick couplers Flow meter Engine throttle control to be provided by chassis manufacturer Relief valve Pressure gauge

Hydraulic Tools:

Stanley BR67 Breaker Asphalt cutter Detachable shank with pad 35 lb., 45 lb., 72 lb., 87 lb. breaker sizes available

Tool Box:

Lockable, 18"W x 36"L x 18"H Additional sizes and configuration available

Tool Basket:

Expanded metal with Angle iron framed mounted on left side of unit $15^{\prime\prime}W \times 96^{\prime\prime}L \times 8^{\prime\prime}H$

Lockable Tool Basket:

Enclosed expanded metal with Angle iron framed mounted on left side of unit Two drop down doors with lockable SS T-handle latches Optional solid 10 GA skin available

Spoils Bin:

18" cross frame spoils bin or 24", 30", 36" wide bins Constructed of 10 GA HR steel doors on each side to discharge material

Hydraulic Spoils Bin:

Hydraulic dumping spoils bin, ½ cubic yard 36" wide frame mounted For easy low profile loading

Side and Rear Spoils Bin:

Two $\frac{1}{2}$ cubic yard spoils bin one mounted on curb side of hopper and one mount at rear on street side with sloped floors to discharge material

Optional hydraulic raise and lower available for rear bin for easy loading

Solvent Pump:

12 VDC pump Connected to solvent side of tank 25 foot hose with wand Used for cleaning tools

Cab Controls:

Inside cab controls, air actuated Operates top lids, and/or rear door, conveyor (Subject to air availability on chassis)

Dual Controls:

Additional set of air actuated controls on left side at rear (Subject to air availability on chassis)

Air Blow Gun:

25 feet, 3/8" hose and wand (Subject to air availability on chassis)

Arrow Board:

(10) light board LED Arrow - left, right, or both Mounted at rear of unit

Thermometer:

0°F - 300°F

Air Compressor:

Vanair Hydraulic, 40 CFM Vanair PTO under deck 160 CFM

Air Tools:

60 lb. and 90 lb. Breakers Asphalt cutter Detachable shank with pad

Hose Reels:

Emulsion spray hose reel
Hand torch hose reel
Solvent hose reel
Air blow gun hose reel
Dual hose reel for hydraulic jackhammer
All reels are designed to accommodate 25 foot hoses
Air hammer hose reel, 50 foot

LPG Tank:

25 gallon upright (portable) tank or 35, and 50 gallon horizontal frame mounted tank Horizontal tanks comes equipped with fill gauge and quick fill port

Sanding Attachment:

Equipped with broadcasting spinner (6) formed polyurethane vanes Spread width (4) feet to (40) feet In cab controls

Pivotal Asphalt Chute:

Chute to be mounted at rear with 180° - 110° pivot, depending on rear mount accessories

Optional tilt adjustment available

Side Discharge Conveyor:

12" conveyor, hydraulic driven 5 foot in length Forward and reverse controls Pivotal at rear

Tool Holders:

Cone holders
Asphalt lute and shovel holders
Lockable hammer holder
8 gallon water tank with hose and spigot, or 15 gallon tank with pump and hose

Safety Equipment:

Fire extinguisher 5 lbs., 10 lbs., 20 lbs. Triangle kit 5 gallon igloo with mounting bracket LED taillights Backup alarm

Cross Frame Work Deck:

 $12'' \times 96''$ safety grip decking with ladder and hand rails $20'' \times 96''$ safety grip decking with ladder and hand rails Custom sizes available

Compactor Plates:

Wacker WP1550AW HONDA Mikasa MVC90L MBW - AP2000H

Walk-Behind Rollers:

Wacker RSS800A Honda Engine BOMAG BW55E VIBCO GR-1600H

Arrow Boards, Beacon and Flashers LED:

Whelen
PSE Code 3
Other brands available

Work Lights

Air Pressure Type Emulsion Spray System:

Model CS-45, 30 gallons; Model CS-65, 50 gallons; Model CS-144, 119 gallons; Model CS-220, 205 gallons

Pump Type Emulsion Spray System Options:

Model BH-205-28, 177 gallons (Custom sizes available) 2" insulated tank Clean out panel 10" x 14"

Steel Chain Only Conveyor

GENERAL TRUCK SPECIFICATIONS - BC-4 ASPHALT PATCHER

Chassis:

Conventional or tilt cab GVW - 33,000 lbs. Cab to axle - 102" minimum - 120" minimum with spoils bin Reinforced frame

Transmission:

Allison 3000 series

Switches:

Electric over electric PTO switch and light switches as required for provided safety lighting