

UNIBELT PATCHER - SPECIFICATIONS

Model BC-1.8

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 1.8 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 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 WearGuard® 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 38,000 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 45-CS

Emulsified Asphalt spray and storage system mounted on truck chassis for applying tack coat. Air shall be supplied by a 12 volt air compressor.

Tank:

30 gallon capacity round tank ASME approved
Equipped with all safety valves, regulator, gauges, exhaust valve, 1½" outlet shut off valve and a 1½" Y Strainer
It has a 6" fill opening with a T bolt and fill strainer basket
It used straight air and/or solvent for cleaning
15 gallon capacity air reservoir tank, ASME approved
Unit shall have a waste recovery system

Solvent Tank:

A 15 gallon pressurized solvent tank, ASME approved, shall be provided to back flush spray wand and lines. All necessary valves, gauges and regulators shall be provided.

Auxiliary Electric Heat:

Equipped with 110 VAC 500 watt heat system
Overnight heating, controlled by temperature sensor
Heating element shall be low-density stainless steel

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 heavy duty double braided oil resistant hose
It shall be equipped with manually operated shut-off to eliminate dripping of material.
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 front pipe stop and two 2" channel rear stops, Reinforced with 3/16 HR angle on side corners
Cylinder 1½" x 18" stroke, two 6" x 4" tube outside supports and 4" x 4" tube inside with internal rollers, located at rear unit

Hydraulic Tool Circuit:

25 foot dual hose

Quick couplers
Flow meter
Relief valve
Pressure gauge

Hydraulic Tools:

Stanley BR67 Breaker
Asphalt cutter
Detachable shank with pad

Tool Box:

Lockable, 14"W x 18"L x 16"H
Additional sizes and configuration available

Tool Basket:

Expanded metal with Angle iron framed mounted on left side of unit
15"W x 48"L x 8"H

Spoils Bin:

18" frame spoils bin
Constructed of 10 GA HR steel door to discharge material

Solvent Pump:

12 VDC pump and wand
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,

Air Blow Gun:

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

Arrow Board:

Whelen TA85 (8) light board LED
Arrow - left, right, or both
Mounted at rear of unit

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)

Pivotal Asphalt Chute:

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

Tool Holders:

Cone holders
Asphalt lute and shovel holders
Lockable hammer holder

Safety Equipment:

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

Above Frame Work Deck:

20" with safety grip decking with ladder and hand rails
Custom sizes available

Compactor Plates:

MBW - AP2000H

Flashers LED:

Two Whelen Micron amber flasher mounted in grill
Two Whelen 500 series amber flasher mounted at rear

Work Lights

PSE LED work lights mounted at rear

GENERAL TRUCK SPECIFICATIONS - BC-1.8 ASPHALT PATCHER

Chassis:

Regular or Crew cab
GVW – 19,500 lbs.
Cab to axle – 60" to 84" depending on options

Fuel tank:

Mid ship 28 gallon, ***Rear fuel tanks are not compatible***

Transmission:

With PTO provisions

Switches:

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