



## **ASTEC 200 MTPH DOUBLE BARREL SIX PACK PLANT**

Portable 8' x 11' four compartment cold feed system is complete with steep walled hoppers. The belt feeders are 24" wide and have 2 HP fixed speed drives, lagged head pulleys, self-cleaning tail pulleys, and a manually adjustable discharge gate. The collecting conveyor is 24" wide and extends to feed the slinger feeder on the Double Barrel®. The conveyor is driven by a 7-1/2 HP electric motor, has a lagged head pulley, a slatted, self-cleaning tail pulley and is equipped with a belt scraper at the head pulley area. Portability consists of dual 11:00 x 22.5 tubeless tires with wheels mounted on a single axle with spring suspension. Air brakes, stop and turn signals, king pin and glad hands provide safe portability. Landing jacks are provided for easier tractor hook up and disconnect. A cable tray is provided along one side of the frame for routing of cables.

Includes	
1	SF.02 Telescoping support legs with base plates
1	OF.01 Variable speed drives for belt feeders in lieu of fixed speed
1	OF.04 Bin vibrator
1	PDB-170E Portable 6' x 33' DOUBLE BARREL® Drum

Portable 6' x 33' DOUBLE BARREL® Drum Mixer is chain driven with a saddle chain drive. The drum is powered by a 100 HP electric motor. Included with the Double Barrel is a specially engineered flight design, burner control, fuel pump, asphalt metering system, wrap around chain drive, slinger feeder, semi automatic controls and electric switchgear. The leaf-mounted drum tires are 5" wide x 2-1/2" thick and allow for differential expansion and contraction between the tire and the dryer. The dryer is equipped with a special insulated outer chamber where the RAP is heated and mixed with the virgin aggregate, fines returned from the baghouse, and liquid asphalt. The outer chamber is equipped with a large access door powered by hydraulic cylinders for ease of access for inspection and service. The slinger feeder at the drum inlet is equipped with a bar grizzly to scalp off oversized material, and a weighbridge to weigh aggregate. The portability package includes dual 255/70R22.5 tires with Budd wheels mounted on tandem axles with spring suspensions. Air brakes, turn and stop lights, kingpin and glad hands are furnished for safe portability. Landing jacks are provided for easier tractor hookup and disconnect, as well as allowing temporary parking of the unit between moves without blocking the gooseneck. A cable tray is provided along one side of the frame for routing of cables.

#### Waste oil requirements:

The viscosity must be 90 ssu at a maximum 220° F/ the particulate size must have a value no greater than 0.04 inch; the sulfur content must have a value no greater than 0.5% by weight; the H2SO4 (sulphuric acid) content must have a value no greater than 0 ppm; the H2O (water) content must have a value no greater than 5% by weight.

#### Includes

1	SF.01	50 MBTU/hr	WhisperJet #2 oil burner
1	SF.02	BC-500	Burner control
1	SF.03	Variable speed	asphalt pump with tach feedback
1	SF.04	Slinger feeder	with bar grizzly
1	SF.05	Infrared temperature	sensor for Mix
1	PBH-37E:5.5	Portable Pulse Jet	Baghouse for 36,740 ACFM Draft System

Portable 36,740 ACFM baghouse system with square feet of cloth for a 5.4:1 air-to-cloth ratio is complete with a knock-out box built into one end of the baghouse to remove the larger particles that wear out the bags prematurely. The baghouse has high and low temperature controls, one (1) 30 HP screw compressor to operate the baghouse and the plant, and a low energy BCB-445 backward curved blade fan with one (1) 150 HP motor and drive for high exhaust efficiency. It has a three (3) 9" gathering screws and one (1) 9" cross screw with chute to a 12" transfer dust screw that moves fines from the baghouse to the dust inlet on the DOUBLE BARREL®. A remote manual opposed blade damper precisely controls excess air, and the exhaust stack has



built-in sampling ports that are easily accessible. Portability is provided on a fully equipped tandem axle frame with air brakes, signal lights, spring suspension, kingpin, and glad hands. It also has telescoping support legs that are adjustable. A cable tray is provided along one side of the frame for routing of cables.

- Includes
- 1 SF.01 Dust screw to DOUBLE BARREL®
- 1 SF.02 BCB-445 exhaust fan, one (1)150 HP motor
- 1 OF.03 Automatic damper controls/actuator/photohelic

1 SEB-5024 Portable Self-Erecting Surge Bin/24" Drag/Control House

Portable fifty (50) ton capacity self-erecting surge bin with single clam gate discharge for rapid truck loading. The 24" wide drag slat conveyor is powered by a 40 HP motor with a shaft mounted reducer and has a capacity of 280 tons per hour. The drag flights are 6" deep, 24" long, 3/8" thick, and constructed of A-36 steel. The headshaft and tail shaft are 2-15/16" diameter and made of C-1018 cold rolled steel. The head sprocket is segmented and hardened to 450 Brinell. An 8' x 8' control house is mounted on the gooseneck of the portable unit with all consoles prewired and premounted. The portable frame has tandem axles with spring suspensions, air brakes, signal lights, kingpin, glad hands and landing jacks.

- Includes
- 1 OF.01 Backweigh system w/load cells, summing box and batcher on drag

1 PM-96-5 Process Mate Computer Control System for Continuous Mix Plants

The Process Mate-96-5 is a microprocessor based control system for the blending of asphalt in a continuous mix plant. The system will also blend recycled asphalt and other additives including mineral filler, lime and anti-stripping agents. Manual backup units provide manual control of asphalt, asphalt additive, mineral filler, and recycle asphalt pavement. Manual/automatic aggregate cold feed control of four (4) aggregates is also provided.

System includes the following features:

- 30" floor mounted console enclosure.
- 20" LCD and keyboard operator interface.
- UPS power supply
- PC Computer and enclosure
- Eighty mix designs stored in fifteen year non-volatile memory.
- Automatic blending of asphalt, recycle, and two additives (volumetric mineral filler or

lime, and anti-strip agent) based on tons per hour of material on the aggregate belt scale. Manual backups (MBU's) provide for four (4) ingredients.

- Virgin aggregate cold feed control for four (4) bins. Includes manual backups(MBU's).
- Bin vibrator switches for control of bin vibrators on aggregate bins 1 and 2; control of air cannon on recycle bin 1.
- Reports include production totals, daily summaries, formula printout and calibration data printout.
- Production data logger (printer not included).
- Asphalt temperature compensation (j type thermocouple input).
- Material tolerance warning alarms (external horn not included).
- Remote plant troubleshooter.

1 WM-2000 Weigh Mate 2000 Truck Loadout and Management System



The standard loadout system functions with a backweigh type silo. In addition to load out capabilities, the WM 2000 allows for virtually unlimited storage of customers, trucks and jobs limited only by disk space. The system features a desktop display and keyboard, digital scale interface/load out unit, a dot matrix ticket printer and an ink jet report printer. The system also provides a daily printed summary of job and material totals together with truck and customer activity and data export/import via E-mail or floppy disk to and from WM 2000-office server system. Production reports by plant, with sub-totals by customer types with materials totals by customer and weekly production summaries by plant including previous years totals are also included as features. The Weigh Mate 2000 is designed to operate in the demanding environment of an asphalt plant control room or scale house. The unit will function with standard load cell equipped scale.

The system includes following features:

- Color desktop display and keyboard
- Control of up to five silos over a single truck scale or one silo with weigh hopper
- Dot Matrix Ticket Printer
- Ink Jet Report Printer
- Digital scale interface/Load out unit
- Database provides extended reporting of transaction data
- Ticket data transfer via floppy disk standard
- High Speed Telephone Modem
- System UPS

1 HSP-20P 20,000 Gallon Direct Fired Portable Asphalt Tank

Portable 20,000 gallon direct fired tank is complete with a 20" single pass firetube [full length of the tank], a 10" jacketed exhaust stack, 3" of insulation with a natural aluminum jacket on the shell and a 12 gauge steel jacket on the ends.

1 Includes  
OF.10 30 gpm hot oil scavenger system

1 HACC-1438 2-1/2" Piping - Tank to Asphalt Metering Package

Piping from the AC tank to the metering package includes 2 1/2" jacketed piping from tank to strainer, strainer to pump, pump to diverter valve, return line to tank, 2 1/2" strainer and mounting of pump and metering package.

1 HACC-1441 2" Piping - Metering Package Outlet to Drum

Piping from the metering package to the drum includes 2" jacketed piping, three ball joints, 1 1/2" hot oil piping and flexible hot oil jumpers.

1 ACAP-005 3" Asphalt Unloading Pump, 15HP

A 3" asphalt unloading pump is provided with the pump outlet piped to one asphalt tank. The 200 gp pump package includes jacketed piping, strainer, pump, a 15 HP motor, base and mounting.

1 Includes  
SF.01 Starter Included

1 TES-20 Total Electrical System for Portable Plant

Power and control cables with plugs and receptacles for the portable plant are included.

OPTIONS:

1 PRB-810-40E Portable Recycle Feed System

Portable recycle feed system is complete with 8' x 10' recycle bin with self-relieving bottom, 30" belt feeder with



lagged head pulley, self-cleaning tail pulley and 5 HP variable speed drive, 3' x 6' single deck scalping screen, 24" inclined conveyor with 5 HP drive, gravity take-up, belt scale, load cells, and drum bypass. Package is all mounted on a single axle frame. A cable tray is provided along one side of the frame for routing of cables.

1	Includes SF.01	3' x 6' single deck scalping screen
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## CUSTOMER RESPONSIBILITIES

The following additional items will be required for placing the equipment into operation. These items are the responsibility of the customer.

Air Compressor  
 Air Line Piping  
 All incoming power to main power panel, including site main disconnect and electrical metering system  
 All underground PVC and cable to power panel  
 All underground PVC for power and control wiring  
 Any electrical equipment required by local codes (other than NEC)  
 Any fees associated with U.L. approval and/or inspection  
 Any modifications to existing equipment  
 Any other equipment, services, controls, materials, permits, certifications, or other items not specifically identified in this contract  
 Asphalt Heater  
 Asphalt Piping  
 Asphalt Unloading Pump  
 Border Charges and Import Duties  
 Bulkhead (cold feed) anchoring, ramp materials and placement  
 Bulkhead for Cold Feed  
 Cable tray covers, if required

Clean up of site after erection  
 Concrete/Asphalt for Foundations as needed  
 Conduit for Rubber Cables  
 Erection and/or installation  
 Foundation, grout, anchor bolts, weld plates, all foundation-related materials  
 Freight  
 Fuel Piping  
 Fuel Tank  
 Furnishing and installation of flexible or hard piped fill line between fuel delivery truck and fuel tank(s).  
 Furnishing and installation of flexible or hard piped suction line between AC delivery truck and AC unloading pump(s).  
 Grounding System for all equipment  
 Handicap accessibility to the control center  
 Heat Transfer Oil  
 Insulation (materials and labor) of AC and hot oil lines  
 Lightning protection system  
 Lubricants for Reducers  
 Permits  
 Pilot regulator for burner  
 PST & GST  
 Sales Tax  
 Scale Certification  
 Site Preparation



Spraying the Bulkhead and Foundation Pads with AC20 Stairway with landing and rails leading to control center Touch up painting unless equipment installed by Astec

#### SERVICE

The Company will furnish a serviceman to provide technical assistance in the erection and/or setting of the equipment furnished by the Company and to assist and instruct the employees of the Purchaser in the starting up thereof, for a period not to exceed 14 working day(s). If the time required by the service man exceeds 14 working day(s), and the delays are not attributable to the Company or the service man, nor caused by act of God, these services will then be charged to the Purchaser at the rate of \$750.00 per day plus all traveling expenses in route to and from the site of erection and/or setting.

The serviceman shall report for duty no later than ten (10) days' after notice to Company, and if through the fault of Purchaser he is delayed in beginning or prosecuting his work, Purchaser shall pay Company, in addition to any other payments due hereunder, the amount of \$750.00 for each day of time so lost, plus expenses.

**MOVING THE EQUIPMENT:** Purchaser shall furnish the necessary facilities, labor and materials for conveying the equipment from the point of delivery to the site of installation, and placing same on point of erection and/or setting. The equipment shall be set and leveled by Purchaser under the supervision of Astec's appointed representative.

**START UP:** Purchaser shall furnish at the site of erection and/or setting the following: All labor, equipment, fuel, water, electricity, aggregate and bitumen as required for starting up the equipment.

**DRAWINGS.** Company will furnish Purchaser with necessary drawings and instruction for erection of the equipment. Company will not be held responsible for design and/or installation of footings and/or other items necessary for installing the equipment unless otherwise stated herein.

**WARRANTIES.** The warranty period of the equipment is one (1) year from the date of shipment from the port of embarkation. Except as otherwise provided herein, during the warranty period, the Company shall repair, or at its option replace F.O.B. point of shipment, any parts furnished which are found to be defective in design, workmanship, or material, provided any operation

of the equipment by the Purchaser has been in accordance with generally approved practice as instructed by Company service personnel or set forth in Company service instructions, if any, and provided that the Purchaser notifies the Company in writing as soon as such defect becomes apparent.

Company makes no warranties or guarantees as respects parts or equipment not manufactured by Company, including but not limited to diesel engines, motors, scales, speed reducers, and other assemblies, valves, solenoids, and other parts and accessories. However, any warranties offered by manufacturers of out-sourced parts will be extended to the Purchaser. Liners, castings, and furnace refractories, which are subject to wide variations of destructive service, are not covered by this warranty and are a maintenance responsibility of Purchaser from the beginning of operation, unless special warranties are expressly extended as special provisions of this proposal.

