**MAULDIN1860B 9.5 Ton Conveyor-Feed Asphalt Paver Product Specifications**

Disclaimer: The following specifications are based on the 1860B Asphalt Paver manufactured by Mauldin Paving Products. We reserve the right to change these specifications at any time. For more information, questions, or assistance preparing specifications, please contact your local Mauldin Dealer.

**Specifications for a 9.5 Ton Conveyor-Feed Asphalt Paver**

It is the intent of these specifications to describe an Asphalt Paver in sufficient detail to secure bids on comparable equipment. All parts not specifically mentioned, which are necessary to provide a complete Asphalt Paver, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is usually provided to the trade in general. The Asphalt Paver shall be a current model under standard production by the manufacturer.

Any units not conforming to these specifications will be rejected, and it will be the responsibility of the manufacturer to conform to the requirements unless deviations have been specifically cited by the bidder and acceptance made on the basis of the exception.

**DIMENSIONS**

1. Length: 14 ft (4.27 m)
2. Transport Width (Hopper In): 8 ft 6 in (2.59 m)
3. Width (Hopper Out): 10 ft (3.05 m)
4. Height: 6 ft 4 in (1.79 m)
5. Truck Clearance: 20 in (51 cm)
6. Weight: 19,500 lbs. (8,845 kg)

**ENGINE**

1. Cummins Diesel
2. 4-Cylinder, Liquid-Cooled
3. Tier IV Final – 110 HP
4. 12V Electrical System with 135 Amps Alternator
5. Under-Frame routed exhaust to keep exhaust away from the operator. Hood or top-side exhaust pipes or mufflers are not acceptable

**CAPACITIES**

1. Fuel: 22 gallons (83 l)
2. Hydraulic: 30 gallons (113 l)
3. Washdown: 7.5 gallons (28 l)

**HOPPER**

1. Capacity: 9.5 tons (8,618 kg)
2. Dual 54 in (137 cm) reversible feeding conveyors
3. Feed Conveyors to operate independently
4. Feed Conveyors to be controlled automatically via ultra-sonic sensors or manually via operator controls
5. Open undercarriage design to prevent material from collecting under conveyors and reduce daily cleaning requirements
6. Conveyor must feature bolt-in replaceable floor plates
7. Return side of conveyor chains must be open, exposed, and visible from the underside of the conveyor. No cleaning must be required to the return side of the chains.

**PAVING WIDTHS**

1. Variable paving widths between 8 ft (2.4 m) and 15 ft 6 in (4.7 m)

**PAVING DEPTHS**

1. Variable paving depths between 0-6 in (0-15.2 cm)
2. Manually adjustable depth crank handles on each side
3. Electric-over-Hydraulic tow point cylinders on each side that are prewired for automation

**SCREED**

1. Free Floating
2. Minimum of 4,500 lbs. (2,041 kg)
3. 3/8 in (0.95 cm) thick bolt on replaceable wear plate, formed from HARDOX wear steel
4. Rounded edge front and rear
5. 18 in (45.7 cm) depth

**SCREED EXTENSIONS**

1. Two 46 in (1.17 m) front-mounted screed extensions hydraulically operated
2. All slide mechanisms in the extension shall be polished shaft type with Teflon (or equivalent) bushings, and equipped with provision for easy rebuild
3. Power match height to raise/lower the extension while maintaining a consistent angle of attack between the main screed and the extension. No manual controls allowed.
4. Each extension shall be equipped with a separate control to slope the extension
5. Each extension must be equipped with powered feed tunnels that extend and retract in conjunction to the extension

**SCREET HEAT**

1. Thermostatically Controlled, Automatic Electric Screed Heating for Main and Extensions
2. Four independent heating zones with temperature sensors
3. System contains twelve heating elements, two for each extension and eight on the main screed
4. Direct-drive electric generator, 19kw minimum. Hydraulically driven generators are not acceptable.
5. Minimum of 18,000 total combined watts of available heating capacity

**SCREED VIBRATION**

1. Screed-Mounted electric vibrator with 3,500 VPM capacity
2. Vibratory control will not start until the paver begins forward travel (i.e. will not operate in neutral, pause, or reverse)

**SCREED CROWN/INVERT**

1. Equipped with a crown/invert adjustment allowing at least 3 in (7.6 cm) of crown and valley
2. Two ratchet adjusters for independent control of lead and tail crown
3. The two independent adjusters must be able to be coupled for single adjustment or decoupled for independent control without the requirement of tools or taking the chain apart

**SCREED END GATES**

1. Equipped with vertical height and tilt on-the-fly adjustments
2. Spring loaded

**MATERIAL AUGERS**

1. Two 12 in top augers mounted to the main screed and two 9 in bottom augers mounted to the extensions.
2. All four feed augers to be reversible and equipped with automatic, non-contact ultra-sonic control which is both synchronized with feed conveyor and independent of the conveyors
3. Variable speed augers that automatically adjust the speed of the feed system to maintain consistent head-of-material are required

**OPERATOR STATIONS**

1. Two screed mounted operator stations with individual color displays which include at minimum: Tachometer, Hour Meter, Oil Pressure, Engine Temp, Fuel Level
2. Equipped with triple walk boards for operational visibility
3. Dual seat mounts located on both sides of the paver with one removable operator’s seat
4. Seats shall be capable of 180-degree rotation for an outboard position over the extension
5. Stations shall be pre-wired for single grade, dual grade, and slope control automation
6. Walk board extensions slide out, left and right

**OPERATOR CONTROLS**

1. Paver shall be equipped with a selector switch for operation with two operators or a single operator with an assistant
2. Both left and right operators’ stations to be screed-mounted and equipped with full machine controls to include the following: forward/reverse track control, right extension, left extension, screed lift, hopper open/close, right conveyor, left conveyor, right augers, left augers, head of material, vibrator, auto conveyor, manual conveyor, auto augers, manual augers, and conveyor reverse

**STEERING**

1. Screed mounted, Dual electronic steering controls
2. Electronically controlled pumps operate the forward/reverse motion from dual joysticks mounted on both operator stations
3. Paver must be equipped with a resume / pause feature capable of stopping the paver and resuming the direction and speed without adjusting the control joysticks

**WASHDOWN SYSTEM**

1. Electrical pump with dual sprayer hoses including hose reel system

**HYDRAULIC SYSTEM**

1. Hydraulic transmission to be tandem pump, servo controlled
2. Maximum system pressure to be 4,500 PSI
3. Auxiliary pumps with a minimum of 14cc
4. Main Auxiliary pump to be 85cc Variable Displacement Axial Piston Pump
5. Maximum auxiliary system pressure to be 4,000 PSI
6. 30 Gallon hydraulic reservoir with integral fill strainer, return filter, charge filter, and visual fluid level indicator
7. Hydraulic reservoir shall bolt to the machine for ease of service
8. Hydraulic oil cooler shall be heavy duty aluminum type with a hydraulic pulling fan

**PUSH ROLLERS**

1. Two oscillating beam mounted push rollers with appropriate load rated shafts and bearings

**TRACK DRIVE SYSTEM**

1. Direct drive, planetary gear reducer to sprocket
2. Tracks shall be equipped with replaceable premium grade, polyurethane, grouser style pads bolted to the chain link
3. Coverage 2,064 square inches total
4. Equipped with twelve sealed and permanently lubricated track rollers
5. Equipped with two permanently sealed and lubricated top idler rollers
6. Must include automatic hydraulic tensioner
7. Emergency all-stop dynamic braking feature
8. Paving Speed: 0-140 FPM (0-43 MPM)
9. Travel Speed: 0-250 FPM (0-77 MPM)

**ADDITIONAL STANDARD EQUIPMENT**

1. Electric Horn
2. Four LED Working Lights
3. USB Power Outlet
4. Electronic Throttle Control
5. Hopper and Screed Locks
6. Cup Holders
7. Extendable Sight Guides on both sides of the tractor

**TRAINING AND SUPPORT**

1. Machine to be supplied with operation and parts manuals
2. Successful bidder shall furnish a minimum of 4 hours operational training at delivery site
3. One-year, unlimited hours warranty against any manufacturer defects
4. Manufactured in USA

**OPTIONAL EQUIPMENT**

1. Extended warranty
2. Electrically Heated Screed End Gates – 500 Watts Ea.
3. Severe-Duty, Cast Iron lower augers
4. Power Crown
5. Power Slope
6. Elevated Driver Mount
7. Handsets for Remote Screed Control (tow point, extension in/out, material feed, match height)
8. Slope Meter
9. Second Operator Seat
10. Arm Rests for Seats
11. Oscillating In-Wheel Truck Hitch
12. Protective Vandal Covers for Operator Stations
13. Umbrella
14. Single-Grade Automation
15. Dual-Grade Automation
16. Slope Automation
17. Amber Strobe Light
18. Mounted Fire Extinguisher, Class A, B and C rated