

Express Bituminous Paver SERIES 3

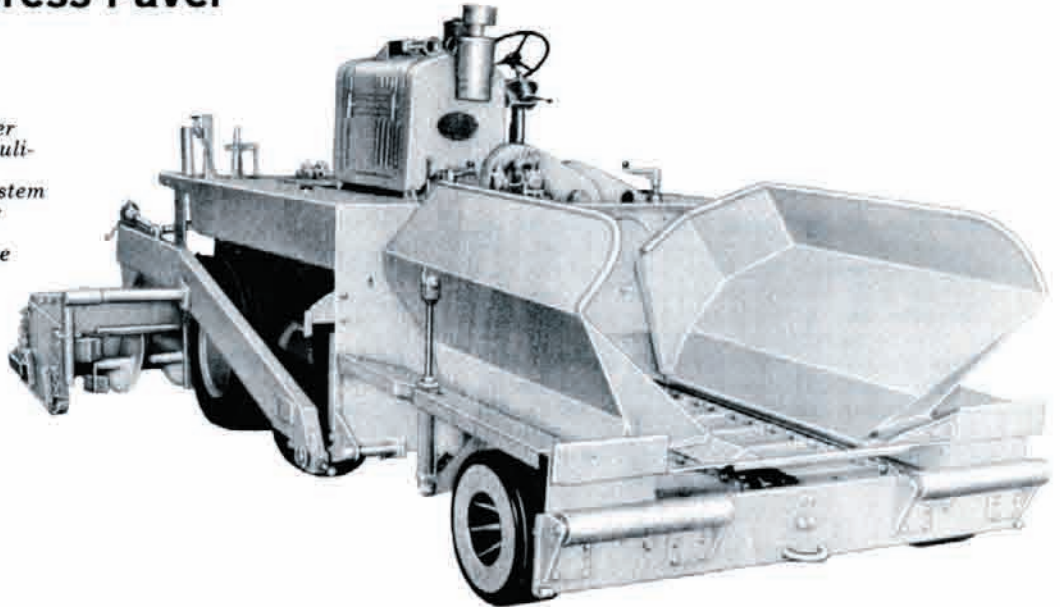


BLAW-KNOX
Construction Equipment Division
Mattoon, Illinois

PRODUCT FACT SHEET

New automatic features to help you earn even bigger profits with the Express Paver

Blaw-Knox Express Paver equipped with new hydraulically operated folding hopper, and air control system which includes automatic feeders. Folding hopper and air control system are standard equipment.



Folding hopper . . . self-cleaning, operator controlled

The folding hopper is an important feature that will reduce your manpower requirements and help you get maximum paving production with the Express Paver. When the material supply decreases in the center of the hopper, the operator simply engages a fingertip control to raise the wings. The hopper is emptied completely—no build-up of material on the sides, no hand labor required to keep the hopper clean. Hopper is hinged at the conveyor line so that all material moves onto the conveyor when the sides are raised. Material flows steadily to the spreading screws. Truck-waiting time prior to unloading is reduced.

Hopper wings are raised and lowered by hydraulic cylinders. Fingertip control by operator simplifies adjustment of wings for travel clearance or paving around obstructions.

Automatic feed control

The automatic feed control is another feature which keeps the Blaw-Knox Express Paver moving ahead at top speed. Material flow to both sides of the screed is automatically regulated, thus eliminating the necessity for operator control and continuous observation.

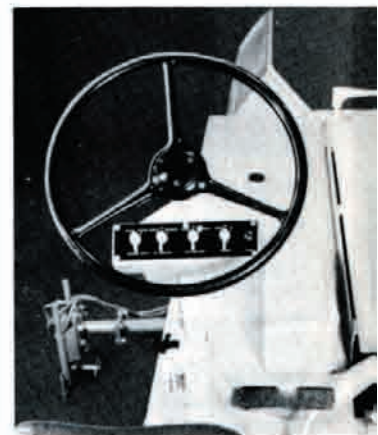
Sensing elements positioned over the end of each auger independently control the operation of the right and

left auger and conveyor. Material flow on either side is stopped or re-activated as needed to prevent over-feeding or under-feeding. An equal pressure from material against the screed is maintained so that a more accurate finish with uniform density is produced.

New power steering and control panel

- * **Front wheel power steering** for easier operation, greater maneuverability. Ground shock is minimized, joint quality improved because operator has less difficulty in maintaining straight-line paving.

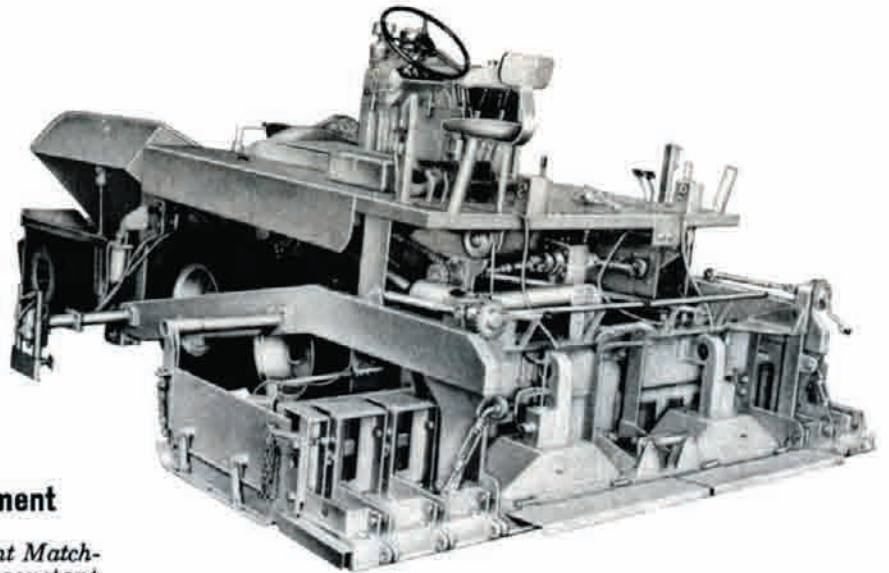
- * **Fingertip controls** for traction clutch, operating conveyors, and raising and lowering hopper wings. Left and right conveyor-auger controls include setting for automatic feed control and manual override.



WORLD'S LEADING MANUFACTURER OF ASPHALT AND CONCRETE CONSTRUCTION EQUIPMENT.



Only ten minutes required to switch attachment to opposite screed arm. Extensions are available to match screed widths up to 16 feet.



Exclusive automatic screed level attachment

The Blaw-Knox *Automatic Screed Level or Joint Matching Attachment* eliminates human error and constant adjusting of the screed in joint matching.

An indicator shoe on the joint matcher rides on an adjacent compacted mat or an accurate curb line. The joint matcher maintains a constant height of the side arm front pivot with respect to the mat or curb line that the indicator shoe is riding on. Any variations in this height, due to irregularities in the base that the Express Paver is moving over, will cause the indicator shoe to activate a hydraulic control valve. A hydraulic cylinder then raises or lowers the screed side arm to the pre-set height. The mat being placed, therefore, has a uniform elevation with respect to the mat or curb line that the joint matcher is travelling on.

The Automatic Joint Matching Attachment can be quickly attached to either side of the Express Paver. A swing-up feature is provided for curb clearance.

New hydraflated tires for improved flotation

Hydraflated, diamond-tread tires are another plus improvement on the Express Paver. Flotation and traction are improved by the wider profile of the tire tread and the increased weight concentration.

SPECIFICATIONS

General

Lays any asphaltic material, hot or cold.
 Width of pavement 8 to 16 ft.
 Depth of pavement 0 to 10 in.

Hopper

Capacity approx. 10 tons
 Equipment consists of two bar conveyors driven by chain drive. Bar conveyors are separately and automatically controlled and are renewable. Two separately operated gates, mounted at the back of the hopper, give increased control of material. Hydraulic folding hopper. Two adjustable tire bumper rollers mounted in anti-friction bearings.

Screed

Of one-piece box design. Screed plate has high strength, abrasion-resisting smooth finish wearing surface. Hydraulic lift and adjustments for crown and wedge courses give full control on grade.

Screed plate length 96 in.
 Screed plate width 20 in.
 Auger (diameter) 14 in.
 Screed and tamper extensions multiples of 6 in., 12 in., and 24 in.
 Auger extensions 12 in.

Travel

Working speeds—by varying engine speed and using 8 working speeds with standard or optional transmission and 2-speed axle.

Paving speeds 10 f.p.m. to 62 f.p.m.
 Travel speed 7 m.p.h.

Traction transmission

All gears with cut teeth, heat-treated and hardened. Shafts mounted on tapered anti-friction roller bearings all running in an oil bath in an oil-tight case.

Clutch is a heavy-duty, three discs.

Conveyor-auger control transmission

Cut spur gears, heat-treated and hardened, bevel gear and pinion, shafts on anti-friction tapered roller bearings all running in oil bath in an oil-tight case.

Controls

Dual control stations.
 Hydraulic brakes.
 Power hydraulic system for steering, operation of folding hopper, and screed lift.
 Electric air controls—full automatic material feed with manual override.
 Fingertip air control of traction.

Power plant

Standard engine horsepower 71 at 1800 r.p.m.
 Bore & stroke 3 3/4 x 4 1/4 in.
 Governed speed 1800 r.p.m.
 Numbers of cylinders 6
 Displacement 282 cu. in.

Clutches

Heavy-duty, air operated clutches.

Front wheels

Solid tires . 24 x 4 x 20, 3 per wheel, total tire width 12 in.

Tandem drive wheels

Pneumatic tires (Calcium Chloride hydraflated) 10:00 x 20, 12 ply.

Dimensions

Length, over-all 19 ft., 5 in.
 Height, over-all (exhaust pipe removed) 7 ft.
 Width, over-all 10 ft.
 Shipping width approx. 8 ft.
 Steering wheel center to front drive wheel center . 7 ft., 2 in.
 Driving wheels—center to center 3 ft., 7 in.

Shipping weight approx. 25,500 lbs.

In accordance with our established policy of constantly improving our products, the specifications contained herein are subject to change without notice.