

BLAW-KNOX

PF-25



**MANUFACTURERS
OF ASPHALT
AND CONCRETE
CONSTRUCTION EQUIPMENT**



CONSTRUCTION EQUIPMENT DIVISION
MATTOON, ILLINOIS

BLAW-KNOX

PF-25

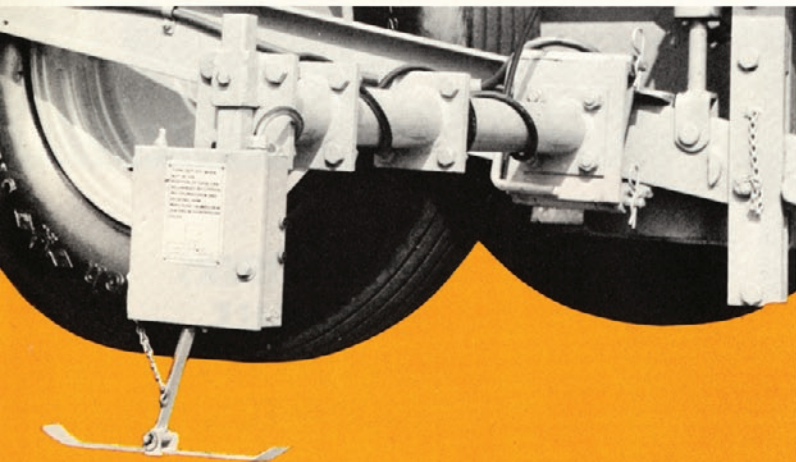
The PF-25 is a really versatile, small paver designed especially for streets, alleys and jobs formerly handled by other methods. More maneuverable than a spreader box or crawler-mounted paver, and not dependent on a truck for towing, the PF-25 can get around faster, eliminate much hand labor, and thus increase your production and profits.

This versatile, rubber-mounted Blaw-Knox paver has a 24 mph travel speed, operating speeds of 15 to 60 fpm and a 6' turning radius without the use of brakes. Its basic, one-piece 8' screed can be reduced to a 6' paving width by the use of cut-off shoes and increased to 11' paving width with 1' and 6" extensions. Paving depth is $\frac{1}{4}$ " to 6".

A trans-axle traction system with four fully-synchronized forward speeds (plus reverse) gives the PF-25 a simple, efficient and economical-to-maintain traction system. Two-speed final reduction units (one for each of two drive wheels) give a total of eight forward speeds plus two reverse speeds for both the 2200 rpm and the 3800 rpm governed engine speeds.

The husky 91 cubic inch V-4 water-cooled gasoline engine gives ample power reserve and is equipped with a heavy-duty $7\frac{1}{2}$ " clutch with six high-rate pressure plate springs for smooth, positive engagement and extended clutch life.

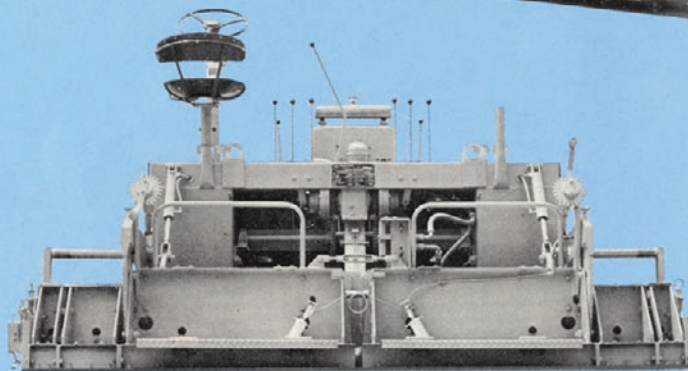
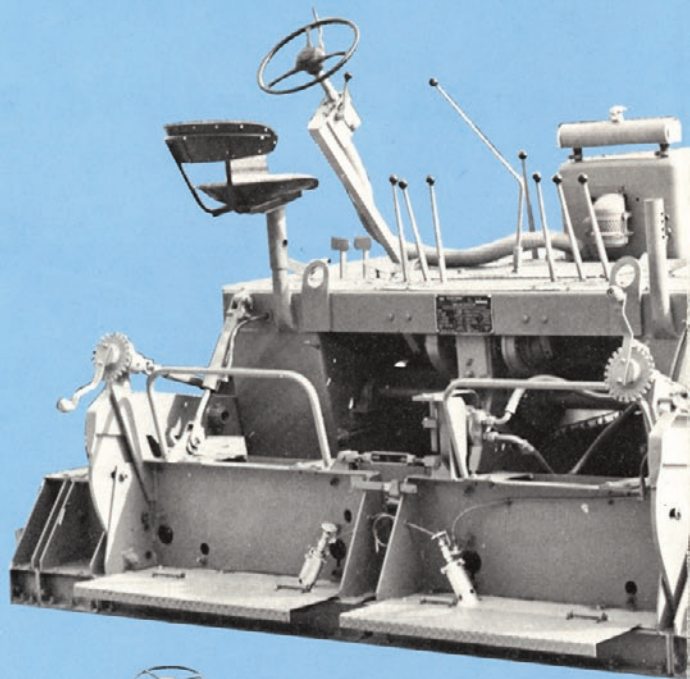
Let Blaw-Knox show you how the versatile PF-25 can increase your profits on streets, alleys, parking lots, driveways, and similar operations. Ask for a demonstration today — see your Blaw-Knox Distributor or write direct for details.



The automatic joint matching attachment controls the elevation of the lane being paved with respect to a reference surface such as the adjacent mat or curb. The new feather touch design with a trailing shoe can be used on hot joints, eliminating much manual screed adjusting and constant observation of the joint by the screed man.

THE RIGHT PAVER FOR

Playgrounds • Driveways • Alleys
Parking Lots • Streets • Patching



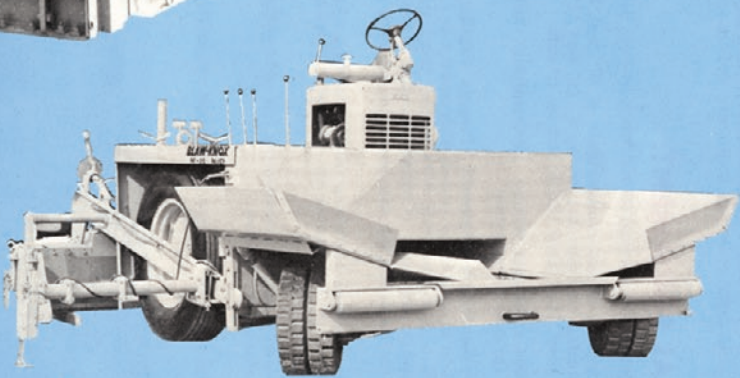
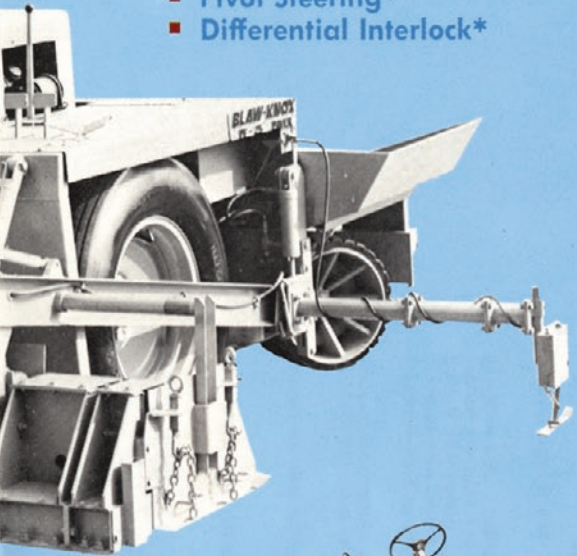
A smaller version of the PF-180 and PF-65, the PF-25 has dual control stations, hydraulic brakes, power steering, and is equipped with adjustments for crown to give complete control of screeding. Twin screed heaters give optimum heat distribution to all parts of the screed chamber.



The PF-25 is ideal for paving streets, driveways and similar projects where maneuverability and versatility are important. By simply removing screed extensions, the PF-25 is under the 8-foot legal width—It is not necessary to remove screed side arms or other parts. A 24 mph travel speed gets

*Optional Equipment

- Rubber-Mounted Mobility and Versatility
- No Expensive Crawler System to Maintain
- 24 MPH Travel Speed
- Dual Control Stations
- 6 Foot Turning Radius
- Parking Brake
- Automatic Joint Matcher*
- Pivot Steering*
- Differential Interlock*



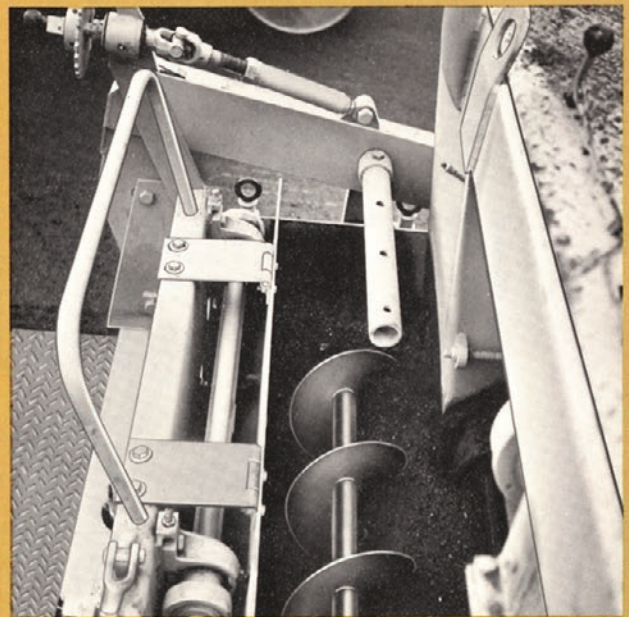
▲ Large 11:25 x 24 high flotation drive wheels with 22" OD x 12" wide wheels under the hopper provide excellent traction and flotation. Clean deck lines allow a clear view around the paver. A roomy three-ton hopper lets the PF-25 work in tight places without a truck.



it from location to location with a minimum of down time; in many cases as fast as trucks. Its small size lets it work in tight places with ease; paving widths from six to eleven feet and paving speeds from 15 to 60 fpm give extra flexibility and versatility not available with crawler machines.



▲ The PF-25 takes situations like this in stride—and at a profit. Easily operable from either side, its mobility and agility keep your operation moving at a fast pace. You can do one job in the morning and easily move to a new location in time for a full afternoon's work. You simply drive it to the new location—there's no truck, trailer or loading crew needed. You save time, money and increase your profits. Your profits are further increased because there is no expensive crawler system to maintain.



▲ From the operator's seat there's an unobstructed view of the spreading augers and entire screeding operation. This is typical of the PF-25; it is designed to speed your operation and make it more profitable by increasing the quality and rate of production. The twin auger-conveyor system is independent of paving speed and each side is independent of the other for complete flexibility and correct material supply at all times.

CONSTRUCTION EQUIPMENT DIVISION
MATTOON, ILLINOIS



GENERAL:

Lays any paving material, hot or cold.
 Paving Widths—Standard, 8'; cut off plates for 6' paving included.
 Screed Extensions available (optional equipment) to increase paving width to 11' in 6" and 12" increments.
 Paving Depths— $\frac{3}{4}$ " to 6"
 Crown Adjustment—Maximum 3" negative or positive at 8' paving width.

HOPPER:

Capacity—3 Tons.
 Twin auger-conveyor system, independent of paving speed, foot-pedal controlled on-off operation. Conveyor bars are securely attached to chain. Two tire bumper rollers front of hopper mounted in anti-friction bearings. Hydraulically folding hopper wings are available as optional equipment.

SCREED:

Constructed so that wearing surfaces can be quickly replaced in the field using the same frame—tamper shield, tamper bars, screed frame wear plate and screed base are of bolt-on construction. Screed base is in one-piece for basic 8' section. Easy adjustment of tamper penetration and simple drive mechanism for lower maintenance. Adjustments for crown and wedge courses give complete control of screeding. Standard machine equipped with two cut off plates that cut off maximum of 12" in 3" increments either on both sides, reducing paving width to minimum of 6'.

Crown Adjustment—Maximum 3" negative or positive at 8' paving width.

Screed Plate Length—8'

Screed Plate Width—12"

Auger Diameter—10"

Augers hand-surfaced for maximum life

Screed and Tamper Extensions—

Multiples of 6" and 12"

Hydraulically driven tampers—1400 cycles per min.

POWER UNIT:

Gasoline, 91.4 cubic inch displacement, 3.54" bore x 2.32" stroke, 4 cylinder V-4, overhead valve, water-cooled engine. (52 HP @ 3800 RPM)

Paving Speeds in FPM @ 2200 RPM using 4-Speed Transmission and Low Range of Two-Speed Final Reduction Unit:

1st.....	15	3rd.....	40
2nd.....	26	4th.....	60
Reverse Travel Speed3 MPH			

Travel Speeds in MPH @ 3800 RPM using 4-Speed Transmission and High Range of Two-Speed Final Reduction Unit:

1st.....	5.5	3rd.....	16.2
2nd.....	10.3	4th.....	24.0
Reverse.....	5.3		

Drive Wheels:

11:25 x 24, 8 Ply, High flotation type pneumatic tires—hydraulically inflated with calcium chloride.

Note: In order to constantly improve its products, BLAW-KNOX CO. reserves the right to change the above specifications without notice. Some photographs show optional equipment.

Front Wheels:

Two front wheels have solid rubber tires, 22" OD by 12" wide. Automobile type power steering. 6' turning radius without the use of brakes.

Dimensions:

Length overall.....	12' 7"
(Shipping length).....	(11' 11")
Height overall.....	7' 1"
(Shipping height).....	(5' 11")
Width overall (Hopper wings down).....	10' with 8' screed
Width overall (Hopper wings folded).....	8' with 8' screed
(Shipping width).....	(8' 0")
Weight (with 8' screed).....	approximately 3750 pounds
Weight 8' screed.....	1150 pounds
Weight 6' screed extension.....	65 pounds
Weight 12" screed extension.....	85 pounds

Clutches:

7 $\frac{1}{2}$ " Heavy-Duty Multiplate engine clutch with 6 high-rate pressure plate springs for smooth, positive engagement and longer life. Feeder clutches are 6" Heavy-Duty Dual-Plate Over Center type for maximum life and minimum maintenance.

Transmissions:

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

Controls:

Dual control stations; control console, steering wheel and seat easily moved from one side to the other. Hydraulic brakes, steering, and screed lift. Parking Brake; electric over hydraulic brake system, essential for work on steep inclines. Foot pedal control of dual auger and conveyor system.

OPTIONAL EQUIPMENT:

Bevel Edger Plates: Bevels edge of mat when no joint is to be made.

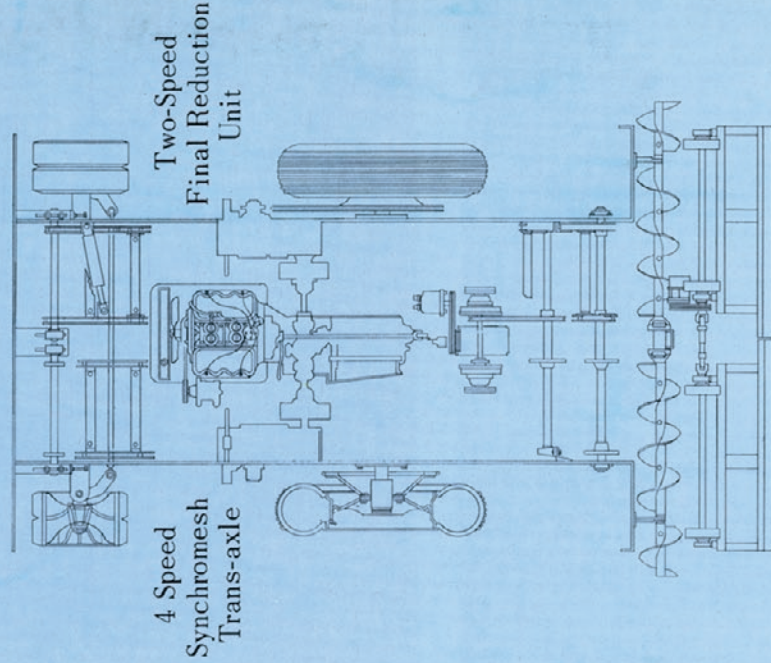
Screed Extensions: Various combinations of 6" and 12" screed extensions and associated hardware for paving 9', 10' and 11' widths are available. Consult your Blaw-Knox distributor for details.

Hydraulic Control of Hopper Wings: Hydraulically raised and lowered hopper wings for ease of operation.

Automatic Joint Matching Attachment: (Patents Pending). Automatically controls elevation of mat being paved with respect to a reference surface such as the adjacent mat or curb. New feather touch design with trailing shoe can be used on hot joints. (Controls one side of screed. Also available in sets of 2 to control both sides of screed. Not the same as Blaw-Kontrol.)

Pivot Steering Arrangement: Individual traction wheel braking for maneuvering in tight places or for squaring up, making it possible for the PF-25 to pivot on either drive wheel.

Differential Interlock: Traction transmission has differential lock out feature for maximum effort when desired.



PF-25 Power Train

This schematic illustrates the simple and efficient power train of the PF-25. Power is delivered from the engine to the trans-axle unit and independent auger-conveyor transmission. From the fully-synchronized four-speed trans-axle, power goes to the two-speed final reduction units. Final drive is by chain and sprocket. The auger-conveyor transmission drives the augers and conveyors by chain and sprocket, independently of each other and of paving speed.



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Construction Equipment Division Mattoon, Illinois