

# **UNIPAVE** Engineering Products

Sureliya Estate, Vastral Road, Amraiwadi, Ahmedabad. 380026  
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# **UNIPAVE**

SPECIFICATION OF  
*UNIPAVE* PAVER  
FINISHER  
FOR PAVING WIDTH UP  
TO 7.5 METERS.

MODEL ESP 07



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## **TECHNICAL SPECIFICATION**

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Transmission	Hydrostatic
Front wheel	4 Nos. 550 Dia x 225 mm Solid rubber tyre
Rear wheel	4 Nos. Pneumatic Tyre Size: - 12.00 x 20
Steering	Hydrodrive
Max. Opt. Wt.	16000 Kgs
Hopper capacity	4.25 CM

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## **CAPACITY OF TANK**

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Fuel	165 L
Hydraulic Oil	300 L

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## **STANDARD ACCESSORIES**

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- 1) Canvas Canopy.
- 2) Working Lights.
- 3) Traveling Lights.
- 4) Tool Kit with jack.
- 5) Horn.
- 6) Met matcher.

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### **PRIME MOVER:**

Ashok Leyland Engine Model ALU 411, developing 118 HP @2000-rpm, water-cooled electric start or equivalent. It is mounted on the front side of operator seat, beside hopper. It is well insulated in such a way that the hot air of the engine does not create hazard for the operator, as well it is well ventilated from bottom so that it may not get over heated. Inspection windows are provided on both the sides of engine to easy maintenance of the engine such as checking oil level, changing oil, oil filter, diesel filter, starter, alternator.

Spares of the engine are easily available all over India.

### **CARRIAGE:**

Four steering bogey wheels of size 550 mm Dia x 275 mm are mounted on equalized front axle. The Rear tyre 12.00 x 20 – 04 Nos. with equalizer beam ensures a good adherence even on the most irregular grounds.

### **TRANSMISSION:**

Hydrostatic transmission. A variable displacement pump feeds the transmission system fitted with a fix displacement motor, which is directly connected to the gearbox. Gearbox is having 2-speed reduction one for working and other for traveling. Differential and differential lock arrangement if provided in the gear box. All the gears are in oil bath.

### **CONVEYOR:**

Two Hydraulic motors are provided for individual control of two conveyors, which are provided for individual control of material on both the sides of machine. The speed of conveyor is infinitely variable from 0 to maximum. Displacement sensors provided on discharge end of the conveyor to control speed of the conveyor.

### **AUGER:**

Two Hydraulic motors are provided for individual control of augers provided on both sides of the machine. The speed of augers is infinitely variable from 0 to maximum. Displacement sensors provided at the end of auger to controls speed of the augers. Alloy steel material of auger gives it long service life. Manual override button is provided on the screed for operating the auger to maximum speed at the time of laying the material.

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### **SCREED MODEL HTV3075:**

The main screed is pivoted at the center point of the machine to assure a constant flatness of work on uneven grounds. It consists of 3000 mm central fixed plate and two lateral mobile plates, hydraulically operated, sliding on telescopic cylindrical guides, both chromium plated for wear resistance. The screed plates are of 16 mm thickness are made of carbon steel material and heated by LPG Gas burners two on each mobile plate and two nos. on main screed. The tamper, hydraulically operated, is fitted for all the screed length. Variable lying of width from 3.0 Mtrs. to 5.5 Mtrs. is obtained by means of hydraulic controls. Mechanical Extension of 1.0 Mtrs. is provided to achieve maximum paving width of 7.5 Mtrs.

The adjustment of the lying mat thickness is controlled by Electronic sensor so as to allow easy modification of Grade and Slope according to the job requirements. Two grade sensor and one slope sensor are provided with the machine to control the level of laid met. Operator can have option for using one grade with one slope sensor OR grade sensor on both the sides.

### **BRAKES:**

The hydrostatic drive acts as the service brake, the safety brakes, which consists of two hydraulic calipers and a brake booster is controlled by pedal from the operator's seat. The safety brakes are acting on the speed shaft, which are coupled to the drive wheels.

### **THRUST ROLLER:**

Two thrust rollers are fixed on oscillating beam fitted on front part of the machine.

### **OPERATOR'S SEAT:**

Operator's seat is fitted on both the sides of the machine. The seat is adjustable. The operating panel can be used on either side of the machine. All panels and levers are within the easy reach of the operator.

### **HOPPER AND FEEDING SYSTEMS:**

The independent movement of the two hoppers is obtained by means of hydraulic cylinder operating independently. Conveyor chains are

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independently controlled by automatic feeding system and are made of Hardened Steel. Material conveyed on both sides is sprayed by two auger, both independently controlled by automatic feeding system. Conveyor chain and worm can be manually operated by switch provided in the control panel in manual mode.

### **ELECTRICAL SYSTEM:**

24 V system with two batteries full lighting system for working and traveling.

### **CONTROLS:**

The machine is hydraulically controlled by means of simple switches and levers. In case of breakdown all solenoid valves in the hydraulic circuit can be Manual driven.

(Note: specifications/descriptions are indicative and subject to change without notice due to modification alteration or custom engineering.)

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