

TECHNICAL SPECIFICATION FOR MECHANICAL ASPHALT PAVER FINISHER WITH HYDRAULICALLY EXTENDABLE SCREED

CAPACITY:

Paver Finisher having mat of mix materials up to 200mm thick between Screed size 2.5 m to a maximum 4.5 m width.

POWER UNIT:

The Paver Finisher powered by diesel engine, rated to develop 105 PS, 2000 RPM, fitted with Fuel injection pump, Air compressor, 12 volts Dynamo etc., Battery 12V – 21 plates or reputed make (i.e.) Exide / Prestolite etc., Engine fitted with Oil pressure, Water temperature gauges, Ammeter, Starter button, Key etc.

MOUNTING:

The Paver Finisher mounted on 2 Nos. Pneumatic tyres of size 12.00 x 20 (16 Ply) of reputed make and 2 Nos. solid double type rubber coated wheels fitted with power steering. Main drive wheels are controlled through a differential drive. Power operated independent brakes for each side with parking brake.

HOPPER & FEEDING CONVEYOR:

The hopper should have two bar type conveyor chain.

The floor of the hopper constructed of abrasion resistant steel plate of 10mm thick.

Hopper capable to receive the material premixed 4 cu. m. (approx.). The bar conveyor move the material to the spreading screw and the volume of material move controlled by means of adjustable gate.

SPREADING SCREW:

The Paver Finisher is provided with two spreading screw capable of evenly distributing the material delivered by the bar type conveyor over the whole or either half of the width of the area to be surfaced. One screw has right hand thread and another has a left hand thread each moving material from the center to the sides. The screw is visible to the operator. The screw conveyor is made of wear resistant Ni-hard steel casting material. The screw has a diameter of 300mm.

COMPATNESS:

The Paver finisher should be equipped with tamping device ahead of screed for initial compaction of the mat laid. The tamper should operate at the rate of not less than 1500 strokes per minute with 4mm or better amplitude without causing damage to screed or the laying surface. The tamper wearing parts will be wear resistant steel and shall be renewable and adjustable to the optimum projection below the screed. The tamping action will not be preceded by any strike off action and the tamper shall leave the material in proper condition for smoothing and finishing by the screed. The tamper shall be operated hydraulically.

SCREED:

The Paver Finisher should be equipped with fully floating hydraulically extendable screed provided with heating arrangement to enable the screed to be uniformly heated before and during the operation. Screed slides over the compacted mat and smoothes it out in preparation for rolling and is adjustable to give a crown to the compacted mat. The screed wearing parts constructed from abrasion resistant steel and renewab, provided

with means for raising by a power operated hydraulic hoist to a traveling position from the road surface and provided with safety chain for holding the screed in the raised position while the Paver is in movement. Arrangement is provided to provide a required crown and hand wheels are provided for the screed operator to control slope and grade while paving.

CONTROLS:

All the controls provided are grouped at the left rear of the machine and within easy reach of the operator with a comfortable, adjustable seating arrangement for the operator and a shed for operator to protect the operator from the sun and rain. Adequate awning height is ensured to enable the operator to operate the equipment in standing position.

OPERATING SPEED:

It has 8 forward speeds between 2 to 23m/min having 2 ranges i.e. low and high and the same reverse speed.

Head lights at the front and rear should be provided for the transportation of the vehicle along with a 12V horn. It has tail and parking lights and reflectors at the rear.

MANUALS:

2 Sets of operation and maintenance and spare parts manual will be supplied along with the equipments free of cost.

TOOLS KIT:

Machine should have a complete tool kit for routine maintenance along with a strong toolbox with lock and key arrangements and affixed on the paver at the suitable location.

Tool kit should have at least the following tools;

1	Mechanical jack	1 No.
2	Grease gun	1 No.
3	Screw driver	1 No.
4	Pliers	1 No.
5	Circlip plier inner	1 No.
6	Circlip plier outer	1 No.
7	Rear wheel spanner	1 No.
8	Conveyor chain puller	1 No.
9	12" Pipe wrench	1 No.
10	Fix spanner 1"	1 No.
11	Fix spanner set	1 Set.
12	L-end key wrenches	1 Set.