



ASPHALT BATCH MIX PLANT

ROYAL
INDUSTRIES

FOUR BIN FEEDER

- Build on rugged structure
- Feeder are usually synchronized with variable frequency drive
- Anti Bridging bin design to ensure smooth and easy material flow
- Wide opening bin width for easy feeding Through loader

OPTION :-

- More than four bin
- Enclosed Design
- Emergency Stop System



DRYING DRUM

Available with skid base structure

Flights design for optimum heating of all type of aggregate

Drive through Friction drive or Chain Drive

OPTIONAL :-

Isolation with Rockwool

HOT ELEVATOR

- Totally Enclosed
- Centrifugal discharge type bucket elevator
- Provided with Back stop drive



VIBRATOR

- Drive with maintenance free six pole Two Vibrating motors
- Easy and top notch performance
- With bypass system

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HOT BIN

- Four Compartment hot aggregate Bins with 13 m3 Storage Capacity
- Over flow and over size rejection chute
- Each compartment is equipped with pneumatic actuated gates
- High level indicator provided in all bin
- Temperature measuring prob in bin No.1



MIXTURE

- Linear plate and Tips are made from wear resistance material
- Pneumatic operated gate
- Twin Shaft mixture for homogenous mixing in short time of asphalt aggregate and filler
- Jacketed pug mill with welded steel shell
- Soft start and inverter drive system
- Highly reliable and Low maintenance

POLLUTION CONTROL UNIT

- This Unit helps asphalt plant to become environment friendly
- Filling system separate dust & gas which is generated during asphalt production.

Primary Dust Collecting Unit(Cyclon System) :-

- Dust collected from Drying drum, vibrating Screen and hot bins before they enter mixing drum
- Compliments the secondary dust collector

Secondary Pollution Control Unit (Bag House)

- Standardized multiple stage pollution control unit consisting of filter bag from Nomax Material
- Reverse airflow type cleaning operation
- With Screw conveyor for easy removal of dust partial



ASPHALT TRANSFER PUMP

- 5.5KW, 450 LPM, Jacketed, gear type transfer pump
- Jacketed with Hot oil for smooth running
- Easy to operate

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BITUMEN TANK

- The indirect Bitumen Tank are supplied with a high efficiency thermic oil heater
- Fully insulated with Rockwool
- Totally hot oil coil fabricated with seamless pipe
- With level indicator with machinal Flout gauge

Optional :-

- Aggitator assembly
- Direct Heating Bitumen Tank
- Storage capacity with 20 MT, 30 MT, 50 MT



THERMIC HEATER

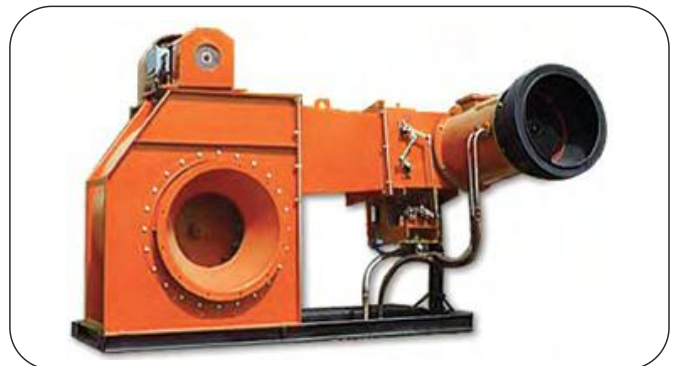
- Come with machine-driven Temperature controls
- Integrated with automatic controllers considering low
- level switch, over temp. Cut off, pressure switch
- Pipe lines are insulated with Rockwool

Optional :-

- Available with 2L Kcal/hr, 3L Kcal/hr, 5L cal/hr, 6L Kcal/hr

BURNER

- S type modulating burner
- Multi Fuel Burner : LDO, Diesel, FO
- Low noise Burner
- Highly efficient



Control Panel

- Modular design and simple use
- PLC type control panel
- Pre installed and factory tested
- Fully automatic via main PLC
- Special program for reports and graphics output
- Cold aggregate feeder speed flow adust automatically according to requirement
- Easy to operate the plant
- Monitor shows all status on/off, current, temperature status
- SADA & HMI system connects asphalt plant to the world

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TECHNICAL SPECIFICATION OF ROYAL ASPHALT BATCH MIX PLANT

Plant Model		Per	RI 80	RI 100	RI 120	RI 160	RI 200
	Plant Capacity @3% moisture	tph	80	100	120	160	200
	Content						
	Bath Size	kg	1000	1200	1500	2000	2000
	Cycle Time	Sec	45	45	45	45	45
UNIT							
Cold Feed Bins	No.of Bins/Cap.	Nos/Ton	4/12	4/12	4/13	4/15	4/25
Charging Conveyor	Capacity	tph	100	120	140	180	240
Thermo Drum	Dryer (L x D)	Mtrs	6 x 1.54	6 x 1.60	7.5 x 1.85	8 x 2.10	9 x 2.40
	Driver Type	4w Friction Drive / 4 W Chian Drive					
Burner	Type	High Pressure, Fully / Automatic, Modulating Burner					
	Fuel	Diesel / Furnace Oil / LDO					
	Capacity	MW/hr	8	10	14.1	14.1	14.1
Hot Elevator	Capacity	tph	100	120	140	180	240
TOWER UNIT							
Filler Screw	Capacity	tph	12	15	20	25	30
Screening Unit	No. of Deck		2	2	4	4	4
	Screenin Method	Inclined Linear Vibration					
	Screening Cap.	tpy	100	120	140	180	240
Hot Aggregate Bin Unit	No. of Bins		4	4	4	4	4
Weighing Unit	Agg.Hoper Cap.	Kg	1200	1400	1600	2200	3000
	Filler Hopper	Kg	200	200	300	300	500
	Bit.Hopper Cap.	Kg	200	200	225	225	400
Mixer Unit	Type	Twin shaft Mixer with hot oil jacketed on body					
	Mixture	Kg	1000	2000	1500	2000	2500
	Bitumen Pump	LPM	450	450	450	450	450
Pollution Control Unit							
Primary	Type	Centrifugal Twins cyclone Unit					
Secondary	Type	Bag House Filter					
	Bag House Fillter	Reverse Air Flow System					
	Filtering Area	M3	400 Bag	400 Bag	432 Bag	480 Bag	504 Bag
Control Panel	Type	Siemens PLC base fully computerized (SCADA on request) Accessories					
ACCESSORIES							
	Cap. Range	M3	3	3	3/7	3/7	10/25/Dual
	Cap. Range	Ton	30	30	30 (2 Nos.)	30 (2 Nos.)	30 (2 Nos.)
	Heating System	Direct Heating / Indirect Heating					
	Hot Oil Heater Ca.	Kcal/hr	3,00,000	3,00,000	5,00,000	5,00,000	6,00,000
	Cap. Range (Optional)	TON	15	15	15/50/100	15/50/100	15/50/100/150

Manufacturer of Road Construction Equipment & Machinery etc

- ◆ Paver Finisher
- ◆ Asphalt Drum Mix Plant
- ◆ Wet Mix Plant
- ◆ Concrete Batch Mix Plant &
- ◆ all Heavy Fabrication.
- ◆ Batch Mix Plant
- ◆ Bitumen Tank
- ◆ Bitumen Pressure Distributor
- ◆ Bitumen Boilers
- ◆ Mechanical Broomer

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OTHER BRANCH : Lucknow, Calcutta, Chandigarh, Bhuvneshvar, Chennai, Bangalore, Raipur

Assure Committed to Quality & Service



ASPHALT DRUM MIX PLANT CAP. 25 TO 300 TPH

Manufacturer of Road Construction Equipment & Machinery etc

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ROYAL INDUSTRIES

Technical Specification

MODEL	DM-45	DM-50	DM-60
CAPACITY RANGE (TPH)*	40 to 60	60 to 90	60 to 120
DRYER			
Length (m)	6.0	6.7	7.3
Diameter (m)	1.2	1.5	1.8
Exhauster (CFM)	10500	12500	14500
Burner Rating (Ltrs/Hr.)	200	275	450
BIN FEEDER			
No. of Bins	4	4	4
Bin Capacity (M ³)	5.8	7.5	8.5
Belt Feeder Width (mm)	400	450	500
Gathering conveyor Width (mm)	950	950	950
SLINGER CONVEYOR			
Conveyor Width (mm)	730	730	810
LOADOUT CONVEYOR			
Conveyor Width (mm)	810	810	950
Loadout Height (m)	4.12	4.12	4.25
Hopper Capacity (kg)	1000	1000	2000
POWER REQUIREMENTS			
Drum Drive (HP)	20	25	40
Exhauster (HP)	20	25	40
Bin Feeder Hopper (HP)	2	2	3
Gathering Conveyor (HP)	5	5	7.5
Slinger Conveyor (HP)	5	5	7.5
Vibratory Screen (HP)	1	1	2
Loadout Conveyor (HP)	5	5	7.5
Hydraulic Powerpack (HP)	2	2	3
Bitumen (Asphalt) Pump (HP)	5	5	7.5
FILLER UNIT			
Rotary valve (HP)	2	2	2
Blower (HP)	5	5	5
DRYER AUTOMATIC BURNER			
Fuel Pump (HP)	2	2	3
Blower (HP)	5	7.5	15
Hot Oil Pump (HP)	0.5	0.5	0.5
BITUMEN TANK			
Capacity (MT)	20	20	20
Insulation (Glasswool in mm)	50	50	50
FUEL TANK			
Capacity (Ltrs.)	2000	5000	5000
TOTAL CONNECTED LOAD			
Load (KVA)	85	100	132

Components of Asphalt Drum Mix Plant



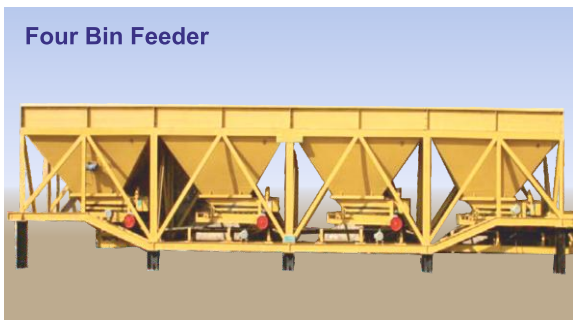
Dryer Drum



Bitumen Tank



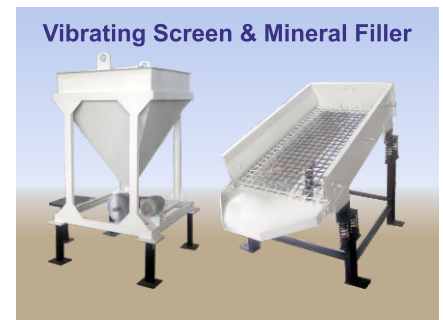
Pollution Control



Four Bin Feeder



Control Cabin



Vibrating Screen & Mineral Filler



Control Panel



Inside Dryer Drum

Certain Components shown here are optional.
Please refer to our offer to know the exact scope of supply.



PAVER FINISHER



BITUMEN PRESSURE DISTRIBUTOR



HYDRAULIC BROOMER



BITUMEN SPRAYER



MOBILE PLANT



BITUMEN TANK

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BITUMEN DRUM DECANter

Manufacturer of Road Construction Equipment & Machinery etc

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ROYAL DRUM MELTING UNIT

The Drum Melting Unit has been specifically designed to guarantee a very efficient melting of bitumen drums prior to usage.

We have two models available : with a melting rate of about 5.000 and 8.000 kg/hr. This equipment is designed to continuously melt bitumen contained in standard drums of 200 kg/each, so to enable a constant supply of bitumen. If needed, a suitable hot oil heater can be installed on the same skid to provide the required hot oil for the melting process and make the unit independent from external hot oil sources.

ROYAL Drum Decanters and Melters are primarily used with asphalt mixing plants in territories where bitumen in bulk is either not available or regular supplier are unreliable and bitumen stored in drums is used as an alternative. ROYAL decanters are designed for ease of operation and provide the most efficient system for ensuring a high output of drummed bitumen.

Designed for use in association with bulk storage tanks the melted bitumen is automatically transferred from the decanter reservoir to the storage tank during the decanting process.

- Bitumen Decanting solutions for remote location. • Hourly throughput upto 5 to 8 tonnes per hour.
- Hydraulically operated Drum loading System. • Thermostatically controlled temperature.
- Float switch operated transfer of bitumen via pump. • Fully insulated and clad heating chamber.
- Static or mobile decanters available. • Easy to operate and simple to maintain.

MODEL	
Melting Rate	4 TPH
Type of Heating System	Indirect Heating by hot Thermic Oil
Max. Temperature for Bitumen	1500C
Tank Capacity	25 TON
Thermic Heater Capacity	3,00,000 K.cal/hr.
Burner	Pressure jet 2 stage (make-reilo/benton)
Fuel	Diesel/LDO
Thermic Oil Circulation Pump	16-20m ³ /hr (air cooled)
Thermic Oil Pump Drive Motor	7.5 kw (430 volt x 50 Hz)
Drum Lifting Electric Chain Hoist Cap.	2 Metric TON
Bitumen Transfer Pump	24m ³ /hr.
Pump Drive Motor (430 volt x 50 Hz)	7.5 KW

Due to continuous improvement, specifications are subject to change without notice. **Higher Capacity Plants are available on specific enquiry**

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BITUMEN PRESSURE DISTRIBUTOR

RI 4000 / 6000 / 8000 LTR.



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ROYAL
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TECHNICAL SPECIFICATION

Higher Capacity are available in specific enquiry

MODEL	ROYAL 4000	ROYAL 6000	ROYAL 8000
TANK DETAILS			
Width	2108 mm	2108 mm	2108 mm
Length	2400 mm	3000 mm	4000 mm
Height	1708 mm	1708 mm	1708 mm
Capacity	4000 Ltr.	6000 Ltr.	8000 Ltr.
Main Hole	600 mm	600 mm	600 mm x 2 nos.
Insulation	50 mm	50 mm	50 mm
Shape	Oval & Round	Oval & Round	Oval & Round
BURNER			
Type	Compressed Air Type	Compressed Air Type	Compressed Air Type
Burner Fuel Tank	50 Ltr.	50 Ltr.	50 Ltr.
Engine Fuel Tank	20 Ltr.	20 Ltr.	20 Ltr.
Service Tank	20 Ltr.	20 Ltr.	20 Ltr.
RECOMMENDED CHASSIS			
Wheel Base	148"	176"	176"
Clear Chassis Length	5000 mm	5600 mm	5600 mm

SPECIAL KEY FEATURES

- Fully – insulated tank with high efficiency heating system.
- Air cooled diesel engine and positive displacement gear pump.
- Designed to suit standard truck chassis.
- Safe and Easy of operation.
- Hand spray system.
- Unique pressure cleaning system.
- Suitable for bitumen emulsion.
- Totally factory tested, arrives ready to launch.
- Bitumen tank clad with G.I. sheet.

Air Compressor	: Twin Cylindred, 2.25 KW, 360 LPM capacity with working pressure of 9 KG/CM ⁻² .
Driving Unit	: Powered by 18.5 KW (25 HP) air cooled diesel engine.
Bitumen Spraying Pressure	: 0 – 6 kg/cm ² , pressurized bitumen spraying.
Temperature Indicators	: • 0 – 300-°C (Analog) scale located on the tank. • Digital temperature indicator on remote box.
Spray Bar	: • Standard width 2.4 mtr. • Adjustable extension bar for spraying width up to 4.2 mtr. (Optionally a twin folding spay bar extendable upto 4.5 mtr. can be supplied.) • Nozzle distance 225 mm c/c. • Pneumatically operated nozzle for spray bar controlling.

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BITUMEN SPRAYER

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- ◆ Paver Finisher
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TECHNICAL SPECIFICATION

Bitumen Tank	Model	2.5 TON
	Capacity	2500 Liter
	Shape	U Shape
	Insulation	50 mm thick with glass wool
	Temp. Meter	0-300°C
	Main Hole	600 x 600 mm in diameter
	Mounting	Self chassis mounted on wheels
Manual hand spraying	Spray Pipe Length	3 meters / 5 meters
	Type of Pipe	S.S.304 Corrugated pipe
	Bitumen Spraying Pressure	0-3 kg. / cm ²
Bitumen Pump	1.5" x 1.5" Size positive displacement gear pump with output of 200 - 300 liters / min.	
Air Compressor	Standard make Air Compressor	
Burner	Fuel consumption 7 - 8 liters / hour	
Wood fire Bhatthi	Consumption as per your Heating requirement	
Engine Fuel Tank	Capacity 5 Liters	
Burner Fuel Tank	Capacity 20 Liters	
Engine	Standard make air cooled diesel engine 6 HP	

Due to Policy of continuous improvement / development, the technical data mentioned in this entire sheet is not binding and subject to change without notice.

BENEFITS :

- An attachment on tractor.
- Chassis and linkage holder are entirely made of steel.
- 2.5 TON Capacity.
- Both Heating System, Wood Fire Bhatthi & Burner System.
- Heavy Duty Chassis & Structure.
- Safe & easy Operation.
- Hand Spray System.
- Easy Drum lifting System.

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TECHNICAL SPECIFICATION

Mode of Operation	Can be Operated Conveniently by towing with Hydraulic drive of tractor.		
Sweeping Width	2.1 Meter Clear Sweeping.		
Dust Collection	IN bucket of Capacity 250 Kgs.		
Sweeping Adjustments	Adjustable on both sides as per the Slope of Road		
Wheel	Two Heavy Duty Wheels		
Material of Brush	Nylon Bristles or Iron Bristles or a combination of both.		
Suitable to use for	<ul style="list-style-type: none"> • Metaling • Wet Mixed Macadam Surface • Asphalted Road Surface etc. 		
Overall Width	2100 mm	Running Speed	20 km/hr.
Sweeping Width	2100 mm	Angling of Brush	45 Degree
Brush outer diameter	560 mm	Diameter of Brush	560 mm
Sweeping Speed	7 to 15 km/hr.	Wheels for Drive	2 Tyre, 6 x 16 Nylon

With Royal Industries policy of constant upgradation of products, specifications are subject to change without prior notice.

Accessories shown are optional and not a part of standard supply.

BENEFITS :

- An attachment on tractor or behind the bitumen pressure distributor.
- Chassis and linkage holder are entirely made of steel.
- Dimension to suit for transportation on all type of vehicles.
- Sweeping job is done in the forward direction, same as the machine.
- Gives good visibility to the operator by use of Anti Dust Guards.
- Screws for adjustment of pressure on the brush.

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WET MIX MACADAM **(100 / 200)**

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KEY FEATURES

Features

- Modern Wet Mix Macadam Technology
- Produces High Quality Mix
- Portable or Stationary
- High Production Rate
- Highly Accurate Aggregate & Additives Feeder
- Easy to Operate

4 Bin Feeder :

It is of single chassis construction. At each Bin a radial gate is provided which can be opened in any position to regulate the aggregate flow. Individual endless belts are provided, below the gates to discharge materia onto the gathering belt.

Vibrating Screen :

A single-deck vibrating screen is provided on the slinger conveyor to remove oversize aggregates received from the 4 bin feeder.

Slinger Conveyor :

An inclined conveyor with 500 to 600 mm wide belt mounted on idlers receives aggregate from the gathering conveyor and feeds it to the pug mill.

Pug Mill : A twin shaft pug mill mounted on antifriction bearing provides quick, continuous and homogeneous mix of aggregates and additives.

Water Tank : One / Two Water Tanks of 15 / 20 MT capacity each are provided, fabricated from steel plates with manhole, flow meter, pump etc.

Control Cabin : A fully automatic Control Panel is provided for controlling the quantity and quality of production with operator sitting in Air-conditioned comfort.

Optional : Variable Feeding Device can be provided for Belt Feeder. Wet Mix Storage Silo & Water Tank.

Model	WMM 100	WMM 200
Output Capacity (TPH)	100	200
Four Bin Feeder		
No. of Bin Total Capacity	25/m ³	30/m ³
Loading Width (mm)	2500	3050
Auxiliary Conveyor (MM/HP)	w400/2	w550/3
Gathering Conveyor (MM/HP)	w600/5	w600/7.5
Bin Vibrator (HP)	1	2
Slinger Conveyor (MM/HP)	w500/5	w600/7.5
Pugmill		
Capacity	1.62/m ³	2.4/m ³
No. of Paddle Arms	28	32
Connected Load (HP)	25	50
Water Tank (Capacity)	15000 Lit.	20000 Lit.
Water Pump (HP)	2HP	3HP
Hyd. Power Pack (HP)	2 HP	3 HP
Loadout Conveyor (MM/HP)	w600/5	w600/7.5
Vibrating Screen (HP)	0.5	1
Total Connected Load (HP)	61	95

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Mob. : +91 94293 18433,
Phone : +91 63550 95270

OTHER BRANCH : Lucknow, Calcutta, Chandigarh,
Bhuvneshvar, Chennai, Bangalore, Raipur



PAVER FINISHER

Manufacturer of Road Construction Equipment & Machinery etc

- ◆ Paver Finisher
- ◆ Asphalt Drum Mix Plant
- ◆ Wet Mix Plant
- ◆ Concrete Batch Mix Plant &
- ◆ all Heavy Fabrication.
- ◆ Batch Mix Plant
- ◆ Bitumen Tank
- ◆ Bitumen Pressure Distributor
- ◆ Bitumen Boilers
- ◆ Mechanical Broomer

ROYAL
INDUSTRIES

KEY FEATURES :-

- ◆ Power with Kirloskar / Ashok Leyland Engine
- ◆ Chain - Diamond / Renold
- ◆ Hydraulic Cylinder - Tafe / Dental
- ◆ Screed Plate Hardox 400 / S.S.
- ◆ Steering Unit Sauer Danfoss / Ognibene
- ◆ Auger Diameter - 300 mm (Ni-Hard Material)
- ◆ Tyre - Apollo / Ceat / J.K.
- ◆ Battery - Amaron / Exide / SF Sonic
- ◆ Priority Valve Provision



TECHNICAL SPECIFICATION

MODEL	RAP - 5 HES	RWM - 5 HES
Material Suitability	Bituminous Material	Bituminous, Wet Mix
Operating Height	3010 mm	3010 mm
Shipping Height	2200 mm	2200 mm
Length	5600 mm	5600 mm
Operating Width	3050 mm	3050 mm
Weight Approx.	9500 Kgs.	10000 Kgs.
Truck Dumping Clearance	600 mm	600 mm
Wheel Base	2500 mm	2500 mm
Engine Make	Kirloskar BS III Model 4R1040TC or Equivalent	Kirloskar BS III Model 4R1040TC or Ashok Leyland BS II ALHT4CTIC3
Engine Output	76 HP@2200 rpm	105 HP@2200 rpm
Battery	12 Volts Heavy Duty	12 Volts Heavy Duty
Tyre Front	22"x16"x12" / 2 Nos.	22"x16"x12" / 2 Nos.
Tyres Rear	11 x 20 - 18 ply	12 x 20 - 18 ply
Paving Thickness	08-200 mm	08-200 mm
Paving Speed	1.25 - 23 m	1.25 - 23 m
Paving Width	2.5 to 4.5 m (Hydraulically Extendable Screed)	2.5 to 4.5 m (Hydraulically Extendable Screed)
Travel Speed	0-16 KMPH	0-16 KMPH
Steering	Power Steering	Power Steering
Hopper Capacity	4 Cubic Meters	4 Cubic Meters
Fuel Tank Capacity	100 Liters	100 Liters
Hydraulic Oil Tank Capacity	80 Liters	80 Liters
Auger Diameter	300 mm	300 mm
Screed Vibration	0-30 Hz	0-30 Hz
Crown	-1 to +3	-1 to +3
Standard Accessories	Tool Box	Tool Box

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

SPECIAL PAVER KEY FEATURES

- ◆ Model RWM - 5 HES - 2
- ◆ Panel Box Switch Type Hydraulic Conveyor Drive
- ◆ Easy Operating System
- ◆ Cooling System 6.5L



INDIAN MACHINES DELIVERING BEYOND EXPECTATIONS



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REGIONAL OFFICE :

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