

WHEEL PAVER
HSP-075

AN ISO 9001 : 2015 CERTIFIED COMPANY

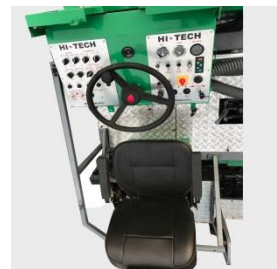


KEY FETURES :

- ✓ HYDROSTATIC TRANSMISSION
- ✓ ENGINE POWER 158 HP @ 2300 RPM
- ✓ LAYING CAPACITY 400 TPH
- ✓ HOPPER CAPACITY 6 CM
- ✓ PAVING WIDTH 2.5 TO 7.5 MTRS
- ✓ WEIGHT 19,900 KG
- ✓ FOUR WHEEL ON REAR AXLE
- ✓ DOUBLE OPERATOR SEAT
- ✓ MOBA (GERMANY) MAKE ELECTRONIC SENSOR.

BENEFITS :

- ✓ SMOOTH OPERATION
- ✓ HIGH PERFORMANCE
- ✓ HIGH EFFICIENCY THROUGH LUBRICATING PROCESS
- ✓ EASY AND LOW COST MAINTENANCE
- ✓ SIMPLE AND TIME SAVING INSTALLATION



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HSP-075



BS III STANDARD ENGINE

PRIME MOVERS :

HI-075 IS POWERED BY KIRLOSKAR ENGINE MODEL 6R 1080 TA1, GENERATING 158 HP AT 2300 RPM. ENGINE HAS SUFFICIENT SPACE ON ALL THE SIDES FOR AIR DRAFT AND COOLING OF ENGINE. ENGINE IS EASILY ACCESSIBLE FOR DAILY MAINTENANCE LIKE CHECKING ENGINE OIL, COOLANT/WATER LEVEL, ENGINE SUCTION FILTER ETC. ENGINE STARTER, ALTERNATOR CAN BE EASILY REMOVED FOR PERIODIC MAINTENANCE. GAUGES LIKE ENGINE TEMPERATURE, OIL PRESSURE AND AMPEREMETER ARE ON SLIDING PANEL AND ARE EASILY VISIBLE FROM OPERATOR'S SEAT.

POWER DISTRIBUTION GEAR BOX :

IT IS COUPLED WITH THE ENGINE FOR COUPLING 3 PUMP SETS. THE GEARS ARE IN OIL BATH; ALL THE GEARS ARE OF PROPER ALLOY STEEL MATERIAL AND HARDENED FOR GREATER LIFE. BEARINGS USED IN GEARBOX ARE OF REPUTED MAKE FOR GREATER LIFE. GEARBOX IS PROVIDED WITH OIL LEVEL INDICATOR, AIR BREATHER, OIL DRAIN PLUG FOR BETTER OPERATION AND MAINTENANCE.

SPEED REDUCTION GEAR BOX :

HSP-075 IS PROVIDED WITH SPEED REDUCTION GEARBOX TO ACHIEVE LOW SPEED FOR PAVING AND HIGH SPEED FOR TRAVELING. ALL THE GEARS ARE IN OIL BATH AND ARE OF PROPER ALLOY STEEL MATERIAL HARDENED TO GET GREATER LIFE. GEARBOX IS PROVIDED WITH OIL LEVEL INDICATOR AND OIL DRAIN PLUG FOR BETTER OPERATION AND MAINTENANCE.

HYDRAULICS :

ALL HYDRAULIC PUMPS, MOTORS AND HOSE PIPES ARE OF REPUTED MAKE. UTMOST CARE HAS BEEN TAKEN IN SELECTION OF JOINTS SO AS TO MINIMIZE CHANCES OF HYDRAULIC OIL LEAKAGE. ALL 'O' RINGS, GROOVES ARE OF PROPER MATCH SO THAT IT GIVES GREATER LIFE OF 'O' RING. MAXIMUM USE OF MS PIPE IS DONE AS MS PIPES OCCUPY LESS SPACE; THEY CAN BE EASILY CLAMPED AND REDUCES CHANCES OF LEAKAGE.

SENSOR :



THICKNESS AND LEVEL CONTROL :

AUTO AND MANUAL MODE COMPATIBLE. IN AUTO MODE, ELECTRONIC SENSORS CONTROLS THE GRADE AND SLOPE OF LAID SURFACE. IT CAN BE ACCURATELY CONTROLLED AS PER JOB REQUIREMENTS. ELECTRONIC SENSOR OF MOBA, GERMANY (IMPORTED) IS USED. MOBA, GERMANY IS A MAJOR SUPPLIER OF SENSORS FOR PAVER ALL OVER THE WORLD. IN MANUAL MODE, THICKNESS CAN BE CONTROLLED BY SWITCHES PROVIDED ON SCREED AND CONTROL PANEL.

BRAKES :

THE DISC BRAKES CAN BE OPERATED BY PUSHING PEDALS PROVIDED NEAR BOTH THE OPERATOR'S SEAT. THE SAFETY BRAKES ARE ACTING ON THE SPEED SHAFT, WHICH ARE COUPLED TO THE DRIVE WHEELS.

FRONT BOGIE :

TANDEM BOGIE OF SOLID RUBBER TYRE, SIZE 550 MM X 300 MM FOUR NOS. ARE MOUNTED ON EQUALIZER BEAM TO ENSURE MAXIMUM FLOTATION AND EQUAL WEIGHT DISTRIBUTION. HYDRAULIC STEERING IS FITTED FOR EFFORTLESS OPERATION.



HYDROSTATIC TRANSMISSION

EQUALIZER BEAM

REAR BOGIE

TANDEM BOGIE OF PNEUMATIC TYRES SIZE 12.00 X 20 FOUR NOS. ARE MOUNTED ON EQUALIZER BEAM TO ENSURE MAXIMUM FLOTATION AND EQUAL WEIGHT DISTRIBUTION. EVEN WHEN DRIVING ON A BASE WITH LARGE IRREGULARITIES SUCH AS GULLY COVER, SPEED BREAKER, ALL WHEELS ARE IN CONTINUOUS CONTACT WITH THE GROUND.

HYDROLIC CONVEYOR DRIVE

HOPPER :

MOVEMENT OF THE TWO HOPPERS IS OBTAINED BY MEANS OF HYDRAULIC CYLINDER OPERATED INDEPENDENTLY BY SIMPLE SWITCHES ON CONTROL PANEL. HOPPER CAPACITY: 6 CM.

FEEDING SYSTEM :

TWO PALLET CONVEYORS WITH HARDENED STEEL CHAIN PROVIDE THE MATERIAL TO TWO SETS OF AUGERS WHICH SPREADS MATERIAL ON BOTH SIDES. HYDRAULIC DRIVE FOR CONVEYOR AND AUGER. EACH OF THE PALLET CONVEYORS CAN BE CONTROLLED INDEPENDENTLY FROM THE OPERATOR'S SEAT.

THRUST ROLLERS :

TWO THRUST ROLLERS ARE FIXED ON HEAVY OSCILLATING BEAM PROVIDED ON FRONT PART OF THE MACHINE.

WORM ASSEMBLY :

WORM SPREADS MATERIAL IN FRONT OF SCREED IN TOTAL WIDTH OF PAVEMENT. HYDRAULIC DRIVE FOR CONVEYOR AND AUGER. PROPERLY SEALED BEARINGS ARE USED FOR GREATER LIFE AS THEY ARE ALWAYS COVERED WITH THE LAYING MATERIAL WHILE PAVING. SPECIAL ARRANGEMENT FOR GREASING IS PROVIDED AS GREASING IS REQUIRED DAILY FOR GREATER LIFE OF BEARING. WORM IS OF NI-HARD STEEL MATERIAL, PROPERLY HEAT TREATED FOR GREATER SERVICE LIFE. PROPER COVERS FOR CHAIN ARE PROVIDED FOR GREATER SERVICE LIFE OF CHAIN.



SCREED :

BASIC SCREED WIDTH OF 2.5 METER, HYDRAULICALLY EXTENDABLE UP TO 4.9 METER AND FURTHER EXTENDABLE UP TO 7.5 METER BY BOLT ON EXTENSION. MAIN SCREED IS PIVOTED AT THE CENTER POINT OF THE MACHINE TO ASSURE A CONSTANT FLATNESS OR WORK ON UNEVEN GROUNDS. LATERAL MOBILE PLATES ARE HYDRAULICALLY OPERATED, SLIDING ON CHROMIUM PLATED TELESCOPIC CYLINDRICAL GUIDES FOR WEAR RESISTANCE TO ACHIEVE PAVING WIDTH UP TO EXTENDABLE LIMIT. SCREED PLATE HAS PROVISION FOR HEATING BY 8 LPG BURNERS TWO ON EACH MOBILE PLATE AND FOUR NOS. ON MAIN SCREED PLATE. VIBRATION IS PROVIDED FOR COMPLETE WIDTH OF SCREED WITH INFINITELY VARIABLE FREQUENCY FROM ZERO TO 3000 RPM (50 HZ). TAMPING IS PROVIDED FOR COMPLETE WIDTH OF SCREED WITH INFINITELY VARIABLE FREQUENCY FROM ZERO TO 2000 RPM (33.3 HZ). THE ADJUSTMENT OF THE LAYING MAT THICKNESS CAN BE CONTROLLED BY ELECTRONIC SENSOR SO AS TO ALLOW EASY MODIFICATION OF GRADE AND SLOPE ACCORDING TO THE JOB REQUIREMENTS.

QUICK MAINTENANCE

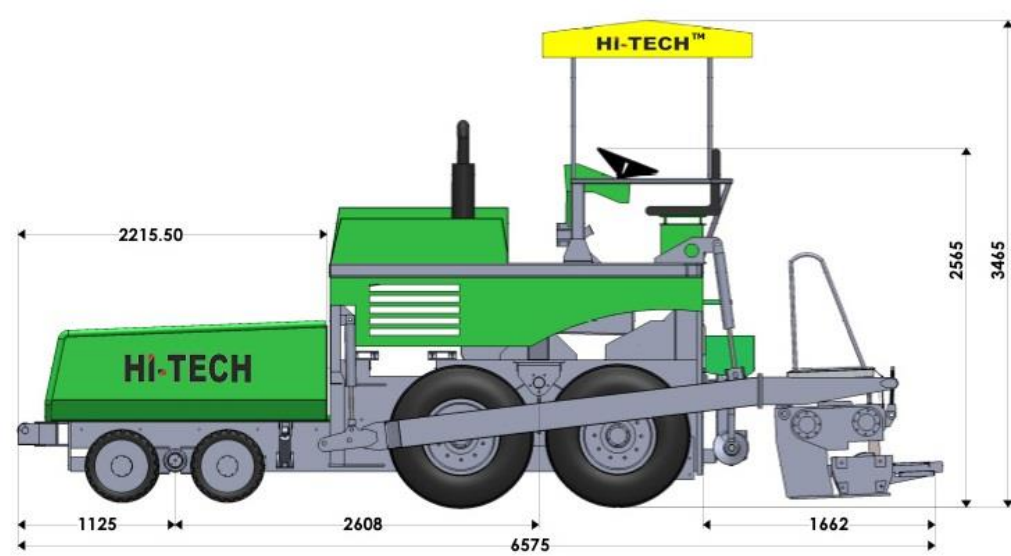
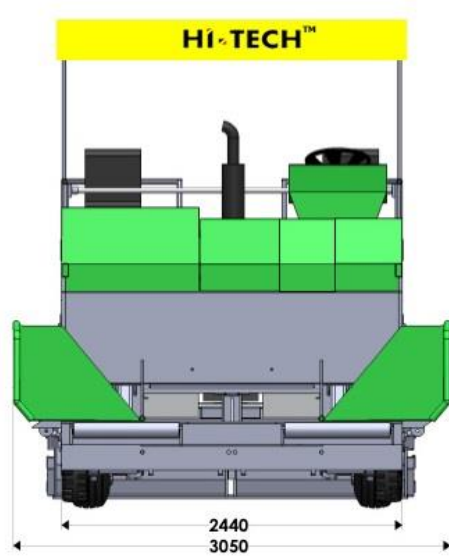
MAINTENANCE :

SHUTTERS ARE PROVIDED ON THREE SIDE OF MACHINE WHICH CAN BE EASILY OPENED FOR INSPECTION AND MAINTENANCE OF THE MACHINE. SPECIAL CARE HAS BEEN TAKEN TO KEEP MAINTENANCE PARTS ON LEFT SIDE OF MACHINE SO THAT MAINTENANCE ON ROAD CAN BE SAFE. FILTERS ARE KEPT ON OUTER SIDE OF MACHINE FOR MAINTENANCE.



SENSOR PAVER FINISHER





POWER UNIT

ENGINE	KIRLOSKAR MAKE 158 HP/ASHOK LEYLAND 158 HP. (118 KW). @ 2300 RPM OR EQUIVALENT .WATER COL ENGINE.
ELECTRICAL SYSTEM	12 V DC
EMISSION STANDARD	BS-III
SPEED REDUCTION GEAR BOX	TWO SPEED REDUCTION GEARBOX TO ACHI EVE LOW SPEED FOR PAVING AND HIGH SPEED FOR TRAVELING

PERFORMANCE

LAYING SUITABILITY	OPTION 1: BITUMINOUS MATERIAL OPTION 2: FOR 6 MTR BITUMINOUS, WET MIX, GSB, DLC, DBM MATERIAL (DUAL PURPOSE)
LAYING CAPACITY	400 TPH
LAYING THICKNESS	300 MM (MAX) TO 10MM(MIN) 12" (MAX) TO 3/8"(MIN)
TRANSMISSION	HYDROSTATIC
WORKING SPEED	0 TO 30 M/MIN (MAX)
TRAVELLING SPEED	0 TO 12 KM/HR (MAX)
WEIGHT	19600 KG APPROX.
SLPOE & GRADE CONTROL	MOBA GERMANY MAKE ELECTRONIC SENSOR (AUTO AND MANUAL MODE AVAILABLE)
MAINTENANCE DOOR	ON THREE SIDE OF MACHINE
TRACTION & CONVEYOUR PUMP – MOTOR	SAUER DANFOSS, GERMANY OR EQUIVALENT

SCREED

SCREED WIDTH	2.5 M (8' 2 1/2") BASIC WIDTH HYDRAULICALLY EXTENDABLE UP TO 4.9 M , BOLT ON EXTENSION UP TO 7.5 M
CROWN (MANUAL)	-1"/+4"
SCREED HEATING	YES, WITH 8 LPG BURNER FACILITY
SCREED VIBRATING	YES, INFINITELY VARIABLE (0 TO 50.00HZ)
SCREED TAMPING	YES, INFINITELY VARIABLE (0 TO 33.33HZ)

UNDER CARRIAGE

REAR WHEEL	FOUR NO. PNEUMATIC TYRE SIZE: 12.00 X 20 , 18 PLY
FRONT WHEEL	TWO NO. SOLID RUBBER TYRE 550 DIA. X 300 MM WIDE

REFILL CAPACITIES

FUEL	180 L (39.6 GAL)
HYDRAULIC OIL	310 L (68.1 GAL)
COOLING SYSTEM	6.5 L (1.4 GAL)
ENGINE OIL	14 L (3.0 GAL)

OPERATOR SYSTEM

CONTROL PANEL TYPE	SLIDING
OPERATOR SEAT	DOUBLE OPERATOR SEAT
TRAVELLING FUNCTION	LEFT & RIGHT SIDE
OPERATING FUNCTION	LEFT & RIGHT SIDE
STEERING	HYDRAULIC
BRAKE	CALIPER DISCS BRAKE ON BOTH THE SIDES

CONVEYOR & AUGER SYSTEM

CONVEYOR & AUGUR	2 SETS, ONE ON EACH SIDE
CONVEYOR DRIVE	HYDRAULIC
CONVEYOR FUNCTION	ON/OFF SWITCH
AUGUR SCREW SIZE	DIA 375 MM
AUGUR MATERIAL	NI-HARD/HIGH CHROMIUM STEEL MATERIAL

HOPPER & FEEDING SYSTEM

HOPPER OPERATION	HYDRAULIC
HOPPER CAPACITY	6 M3 (211 FT3)
HOPPER WIDTH	WORKING : 3.22 M (10'23/4") CLOSE : 2.44 M (8')
FEED TUNNEL WIDTH	1.28 M (4' 1 5/8")

DIMENSIONS

OPERATING HIGHT	3.47 M (11' 4 5/8")
SHIFTING HEIGHT (CANOPY TILTED) (W/O CANOPY & EXHAUST)	2.90 M (9' 6 1/4")
SHIPPING WIDTH	2.68 M (8' 9 1/2")
LENGTH	2.57 M (8' 5 1/4")
WHEEL BASE	6.67 M (21' 10 1/2")
DUMP HEIGHT	2.61 M (8' 6 7/8")
THRUST ROLLER HIGHT	0.70 M (2' 3 1/2")
	0.54 M (1' 9 1/4")

MACHINERY ACCESSORIES

CANVAS CANOPY, WORKING & TRAVELLING PARTS, TOOL KIT WITH JACK.

OTHER FEATURES

ALL OPERATING LEVERS INCLUDING PANEL SWITCH BOARD ARE HANDY AND EASY REACH, ALL GEARS AND SHAFT OF GEAR BOX ARE MADE FROM ALLOY STEEL AND ARE HARDNED AND GROUND FOR EFFICIENT WORKING SCREED IS VIBRATING WITH HYDRALIC MOTOR TO COMPACT LAID LAYER ALL JACKS ARE HAVING SAME KIND OF OIL SEAL KIT.

NOTE : SPECIFICATION / DESCRIPTION / DIMENSIONS ARE INDICATE AND SUBJECT TO CHANGE WITHOUT NOTICE DUE TO MODIFICATION ALTERNATION OR CUSTOM ENGINEERING

HI-TECH (INDIA)

MFG. & EXPORTER OF ROAD CONSTRUCTION EQUIPMENTS.

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