



**L&T Construction & Mining Machinery**

# **L&T 990HF *i*** **TANDEM COMPACTOR**

Operating Weight: 9,200 kg  
Frequency: 60/42Hz  
Gross Power: 74.8 hp @ 2200 rpm  
Engine: Mahindra & Mahindra VNEF74

*improved*



Manufactured by

**L&T Construction Equipment Limited**



Wide drum for better productivity

Higher frequency  
for best-in-class road  
surface finish

Rotating operators  
station improves  
edge visibility

Suspended frame  
for better kerb  
clearance

Fuel efficient  
M&M VNEF74 Engine

High drum shell  
thickness for  
superior life



Auto vibration cut-off  
when machine is stationary  
to avoid scuffing



Optimal  
operating weight delivers  
better compaction in  
lesser number of passes

Isolated operator  
platform for better  
operator comfort

Foldable canopy for  
ease of transportation

Better illumination for  
working during nights

Open-to-Sky drum  
for better drum  
visibility

Wide angle  
water spray  
nozzle with  
flow controller

Fully openable hood  
for enhanced serviceability

Efficient  
filtration system  
for better component life



## OPERATOR CABIN

- ▶ Revolving operator station with 5-position lock
- ▶ Separate isolation for front console & steering wheel improves operator comfort
- ▶ Ergonomically designed switches
- ▶ Glove box, mobile recharge point
- ▶ All switches are easily accessible, emergency stop button is provided
- ▶ Wide rear view mirror for better visibility



*Better all round operator visibility*



*Clear drum edge visibility*



*Vandal Protection*



## PRODUCTIVITY

| Soil Compaction                    | Sand & Gravel | Mixed Soil    |             |
|------------------------------------|---------------|---------------|-------------|
| Compacted Lift thickness (in mm)   | 500           | 400           |             |
| Productivity (in CuM/hour)         | 250-500       | 200-400       |             |
| Bitumen                            | Wear Course   | Binder Course | Base Course |
| Layer thickness (in mm)            | 20-40mm       | 60-80mm       | 100-140mm   |
| Area output (m <sup>2</sup> /hour) | 1200-2100     | 700-1150      | 600-950     |
| Productivity (in Tonnes/hour)      | 75-150        | 120-240       | 160-280     |



## ENGINE

- ▶ Mahindra & Mahindra VNEF74, water cooled, 4-cylinder, 4-stroke Inline turbocharged intercooled engine-CEV-IV compliant
- ▶ Pre filter, Fuel filter cum Water separator for better filtration



## SUPERIOR SUSPENDED FRAME DESIGN

- ▶ Better kerb clearance for working near road medians
- ▶ Better visibility of the drum edge and sprinkler nozzles
- ▶ Open-to-Sky drum for better drum visibility
- ▶ Easy access to water sprinkling nozzles



## HIGH GRADEABILITY

- ▶ Capable of climbing 40% gradient
- ▶ High ground clearance
- ▶ Machine can work in hilly terrains and steep slopes



## WORLD CLASS HYDRAULIC COMPONENTS

- ▶ "Closed circuit" hydraulic system with best-in-class hydraulic components
- ▶ Hydraulic System designed for optimising productivity



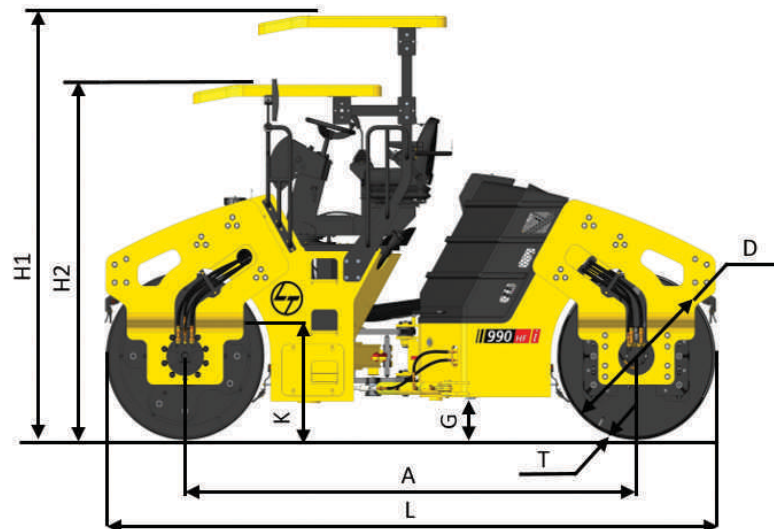
## SERVICEABILITY

- ▶ Excellent air flow for better engine and hydraulic system cooling
- ▶ Fully openable hood
- ▶ Easy access for machine maintenance
- ▶ Refill points accessible from ground level



Foldable canopy for ease of transportation

## MACHINE DIMENSION



| A    | B    | D    | G   | H1   | H2   | K   | L    | O  | T  | W    |
|------|------|------|-----|------|------|-----|------|----|----|------|
| 3480 | 1834 | 1220 | 300 | 3025 | 2575 | 800 | 4700 | 80 | 19 | 1680 |

All Dimensional Parameters are within  $\pm 2.5\%$  of the Specified values

H2-Transport Height



## SPECIFICATIONS

## MACHINE WEIGHT

|                                       |             |
|---------------------------------------|-------------|
| Operating weight (kgs)                | 9200        |
| Working weight (kgs)                  | 9575        |
| Static weight @ front/Rear drum (kgs) | 4600 / 4600 |
| Static Linear load Front/Rear (Kg/cm) | 27.4 / 27.4 |

## VIBRATION SYSTEM

|                         |             |
|-------------------------|-------------|
| Vibration Stage         | 2           |
| Frequency (Hz)          | 42/60       |
| Amplitude (mm)          | 0.9 / 0.36  |
| Centrifugal Force (Kgf) | 7515 / 5402 |

## DRUMS

|                      |                                    |
|----------------------|------------------------------------|
| Width (mm)           | 1680                               |
| Diameter (mm)        | 1220                               |
| Shell thickness (mm) | 19                                 |
| Finish               | Machined Drum with chamfered edges |

## TRAVEL

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Type              | Hydrostatic drive with Infinitely variable displacement axial piston pump |
| Drum Drive motors | Heavy-Duty Radial Piston Motors                                           |

## MACHINE SPEED

|                       |         |
|-----------------------|---------|
| Maximum Working speed | 6 KMPH  |
| Maximum Travel speed  | 12 KMPH |

## GRADEABILITY (Theoretical)

|                  |     |
|------------------|-----|
| Working Gradient | 36% |
| Travel Gradient  | 40% |

## ENGINE

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Make                            | Mahindra & Mahindra                             |
| Model                           | VNEF74                                          |
| Type                            | 4 Stroke Inline Turbocharged Intercooled CEV-IV |
| Cylinder (nos)                  | 4                                               |
| Bore/Stroke                     | 96mm x122mm                                     |
| Displacement                    | 3532 cc                                         |
| Fuel Injection                  | Common Rail Direct injection                    |
| Fuel                            | BS VI diesel                                    |
| Fuel filter Cum Water separator | Spin-on type                                    |
| Air Filter                      | Dry Type with Dual Element                      |
| Engine oil filter               | Spin-on type                                    |
| Cooling                         | Liquid                                          |
| Horse power (Gross)             | 74.8 HP @ 2200 rpm as per ISO 1585              |
| Torque (Max)                    | 306 Nm @ 1200-1500 rpm                          |

## SAFETY

- All-weather canopy
- 2 point seatbelt
- CMVR compliant handrails & steps
- Automatically applied parking brake in case of engine shutdown

## WATER SYSTEM

|                         |                                           |
|-------------------------|-------------------------------------------|
| Type                    | Pressure spray sprinkling system          |
| Pumps                   | 2 nos. of Diaphragm water pumps           |
| Spray Bars              | 1 bar on each drum<br>(6 nozzels per bar) |
| Filtration              | Triple filtration                         |
| Drum Scraper (per drum) | 2                                         |
| Water Tank Capacity     | 750 L                                     |

## MISCELLANEOUS

|                        |      |
|------------------------|------|
| Steering Angle         | ±33° |
| Turning Radius (inner) | 5 m  |
| Drum Oscillation Angle | ±10° |

## ELECTRICAL

|                  |              |
|------------------|--------------|
| Alternator       | 90 Amps      |
| Battery (V / Ah) | 12V / 150 Ah |

## SERVICE CAPACITIES

|                  |       |
|------------------|-------|
| Fuel Tank Diesel | 140 L |
| Hydraulic Oil    | 65 L  |
| Engine Oil       | 14 L  |
| Engine Coolant   | 14 L  |

## BRAKES

|               |                                              |
|---------------|----------------------------------------------|
| Service Brake | Hydrostatic Brake                            |
| Parking Brake | Spring Applied Hydraulically Released (SAHR) |

## STANDARD EQUIPMENT

- Higher Drum Shell Thickness
- Single hood for engine compartment
- Rear work lamps
- Foldable Canopy
- Rotating operator station
- Front & Rear Handrails
- Mobile charging Point, Water bottle holder, Utility/Tool box
- Weather proof rocker switches
- Instrument cluster
- Rust proof LLDPE water tank

## OPTIONAL EQUIPMENT

- Intelligent compaction system (ICS)
- Beacon Lamp

## WARNING ALARMS

- Coolant overheat
- Low lube oil pressure
- Hydraulic oil filter clog
- Parking brake
- Battery Changing
- Engine Check
- Engine Stop
- Water in Fuel

## INDICATORS

- Travel mode
- Engine coolant temperature
- Battery charging
- Lube oil pressure
- Parking brake
- Engine Check
- Engine Stop
- Air filter clog

## GAUGES

- Lube Oil Pressure
- LCD hour Meter
- Engine Water Temp
- Fuel Level
- Water Level
- Engine RPM
- Error code
- Battery Voltage

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