



L&T Construction & Mining Machinery

L&T 990HF *i* TANDEM COMPACTOR

Contact: 9300723311

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 ² /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

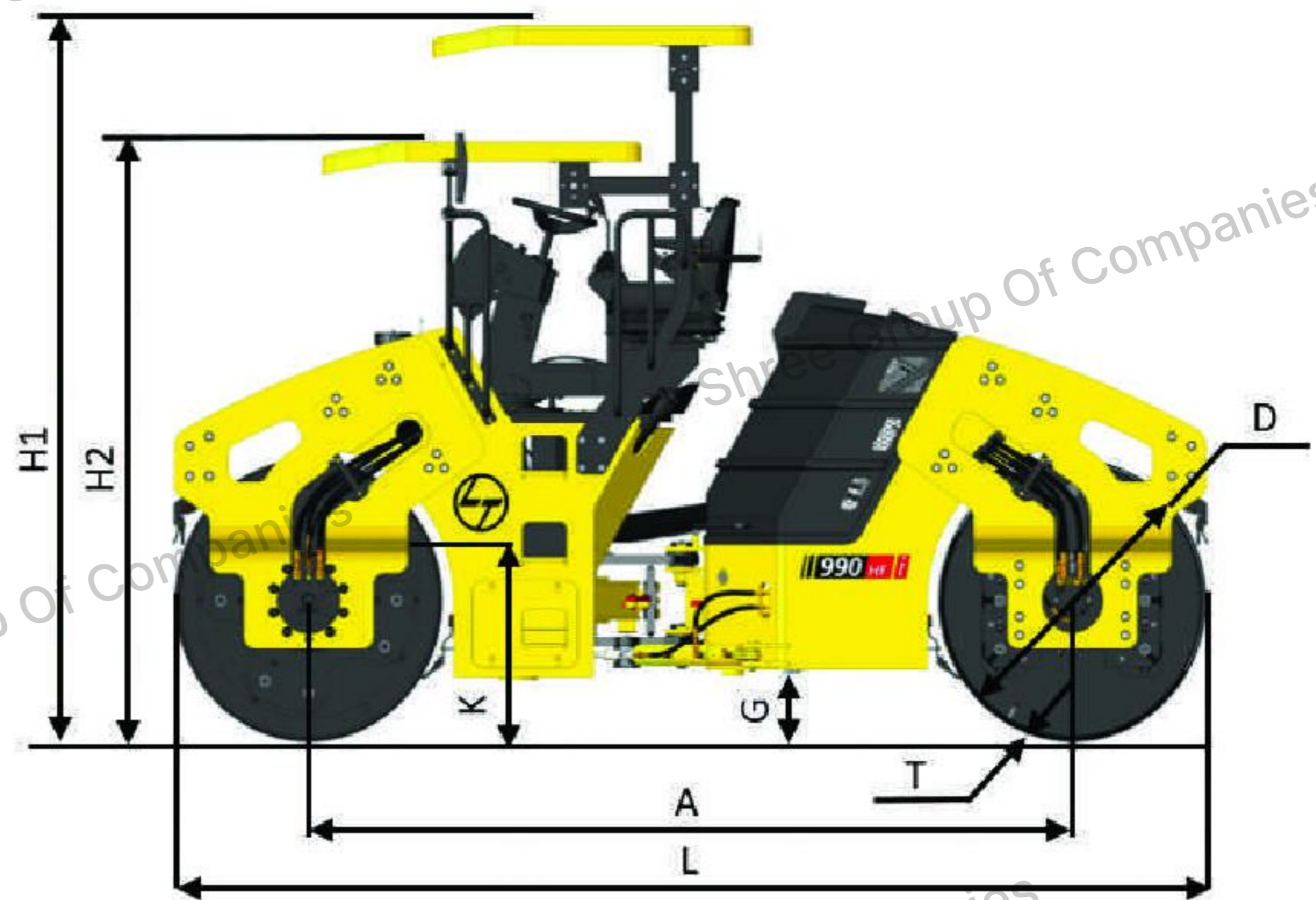
- ▶ Excellent air flow for better engine and hydraulic system cooling
- ▶ Fully openable hood
- ▶ Easy access for machine maintenance
- ▶ Refill points accessible from ground level



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 (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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