





## VM Series Vibratory Single Drum Compactors

The new Vibromax VM range of Vibratory models features self-propelled rollers designed to offer high productivity and reliability with maximum operating economy. But these are also extremely versatile machines. Two frequency and amplitudes meet natural soil frequency making them ideal for a wide range of cohesive soil jobs as well as compaction jobs on streets, roads, parking areas, building sites, rock-fill dams, super highway and airport project. All VM model can handle their lifts of cohesive soil jobs and superior grade ability is achieved through high-torque propulsion components, maximum balance of drum-to-tractor weight and a built-in-anti-slip system.



## EXCEPTIONAL STANDARD FEATURES

- Maintenance-free, lifetime-lubricated centre joint
- Vibrator bearing with oil-splash lubrication
- Hydrostatic propulsion of drum and wheels
- Switchable-Anti-Slip-System (SASS) for high performance on slopes
- Limited slip axle
- One lockable hood covers the complete engine compartment
- 100% access to all hydraulic and engine components
- Front-to-rear-frame oscillation for stability
- Powerful water-cooled diesel engine
- Maximised vibrating mass for best compaction results
- Flush frame side for confined operation
- Comfortable operator station with weight-adjustable seat
- Indicators for complete engine and machine functions
- Emergency stop and seat belt for safe operation
- Tyres track within drum width

## Fast Facts

### Performance

- Class-leading compaction performance, Class-leading gradeability
- 2 frequency and amplitudes meet natural soil frequencies and make the machines extremely versatile
- High oscillating angles of the centre joint for more stability
- Superior traction performance through high torque propulsion components such as heavy duty Limited slip axles, and the built-in Switchable- Anti-Slip-System (SASS)

### Service & Maintenance

- 500 hour service intervals and maintenance free heavy duty centre joint
- Pre-loaded rubber mountings absorb vibration from the drum and avoid axial pressure on the drive motor
- Auto dust removal system for air cleaner to avoid frequent cleaning of primary filter element.

### Quality

- High quality German engineering experience
- Proven, high quality, reliable components on engines and hydraulics
- One-piece exciter shaft built for long life
- Oil-splash lubrication of exciter bearings ensure long life and low maintenance



## Ease of Maintenance

### DRIVER'S STAND

- Indication for Complete machine functions
- Fuse board well protected inside the cabin

### SERVICE

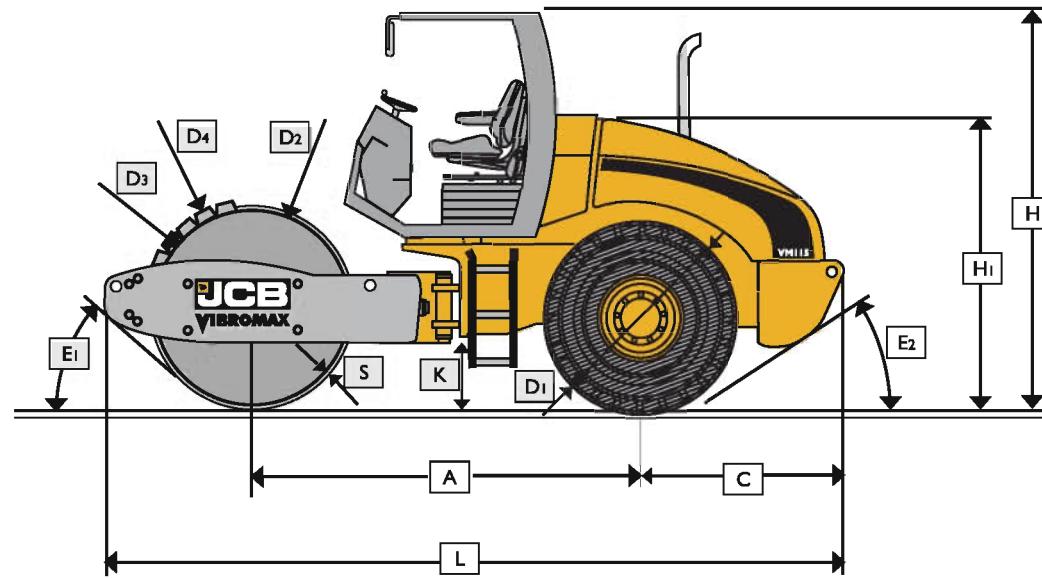
- Car like rear bonnet for easy access
- Lockable diesel inlet to prevent vandalism

### CHASSIS

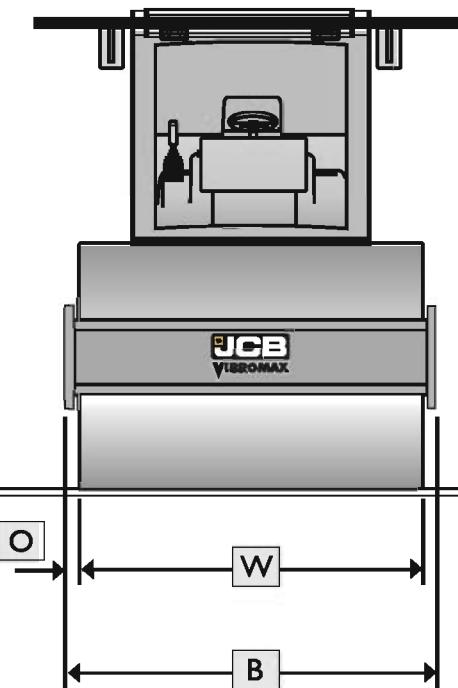
- Heavy duty centre joint free of maintenance



## STATIC DIMENSIONS



## PERFORMANCE DIMENSIONS



### STATIC DIMENSIONS

Dimensions in millimeters		
A	Wheelbase	2846 mm
B	Overall Width	2250 mm
C	Axe to rear face	1523 mm
D <sub>1</sub>	Wheel diameter	1560 mm
D <sub>2</sub>	Drum Diameter (smooth drum)	1500 mm
D <sub>3</sub>	Inner diameter padfoot drum	1400 mm
D <sub>4</sub>	Outer diameter padfoot drum	1600 mm
H	Total travel clearance	2985 mm
H <sub>I</sub>	Height to top of seat	2185 mm
K	Ground clearance	447 mm
L	Total travel length	5444 mm
O	Overhang	75 mm
S	Drum thickness	25 mm
W	Drum width	2100 mm
E <sub>1</sub>	Front departure angle	41°
E <sub>2</sub>	Rear departure angle	32°

### OPERATING DATA

		VM115	VM115PD
Operating weight	Kg	10850	11150
Operating axle load front / rear	Kg	5550 / 5300	5850 / 5300
Vibration stage		1 2	1 2
Exciter frequency	Hz (vpm)	31 (1860) 36 (2160)	31 (1860) 36 (2160)
Nominal amplitude	mm	1.97 0.9	1.97 0.9
Centrifugal force	kN	261 163	282 176
Centrifugal force / drum width	N/cm	1243 776	1343 838
Working speed (forward/reverse) max.	km/h	6	4.5
Travel speed (forward/reverse) max.	km/h	11.8	10
Steering lock angle	degrees	± 35	± 35
Vertical oscillation	degrees	± 15	± 15
Inner turning radius	m	3.4	3.4
Tyres		23.1 - 26 / 12 PR	23.1 - 26 / 12 PR
Number of padfoot			132
Height of padfoot			100
Gradeability up to (drum drive)	degrees (%)	31 (60)	33 (65)

## ENGINE

Four-cylinder, water-cooled, four stroke, turbo charged, after cooled, diesel engine.	
Make	JCB
Model	JCB Dieselmax TCA-85
Total displacement (cm <sup>3</sup> )	4399
Gross Power (hp)	114
Operating speed (rpm)	2200
Starting device	Electric Motor
Air Cleaner	Two stage dry type
Fuel filter	Cartridge
Emission	BS-III confirms to CMVR norms

## PROPELLION

Infinitely variable hydrostatic direct drive by variable displacement motor on rear axle and drum (on drum drive machine), Limited slip axle.

## EXCITER DRIVE

Electrically controlled hydrostatic direct drive on drum.

## EXCITER

Single-shaft circular exciter with overturning weights.

## STEERING SYSTEM

Servo assisted center articulation with automatic oscillation.

## SERVICE CAPACITIES

Fuel	liters	300
Engine oil (engine)	liters	14
Gear oil (exciter)	liters	3.5
Hydraulic oil	liters	80
Coolant / System	liters	22

## BRAKING SYSTEM

- Service brake:** Hydrostatic propulsion system.  
**Parking brake:** Hydraulically released multi-disk brake on rear axle and drum drive.  
**Emergency brake:** Electrically controlled, disk brake, on rear axle and drum drive.

## ELECTRICAL SYSTEM

Voltage	V	12
Battery capacity	Ah	130
Alternator (Current carrying capacity)	A	95

## INDICATORS AND SWITCHES

RPM cum Hour meter, fuel gauge, engine temperature gauge Indicators for engine oil pressure battery charging current, hydraulic oil and air filter condition, parking brake, neutral position control lever, Switches for Speed range selection, frequency, acoustic back-up alarm, 4 Working lights, head lamps, turn signal, hazard-warning lights.

## OPTIONS

ROPS & FOPS Cab, ROPS & FOPS Canopy, Compatronic, Padded foot drum shell, Water sprinkler kit, Pressure Measuring station.

"All dimensions may vary within 1.5% of nominal value. Photographs depicted may include optional equipment. Design & specifications are subject to change without notice or obligation."

## Chairman's Vision

“ Our strategy is to deliver the best customer support in our industry – putting the customer at the very heart of our business. ”

## JCB Corporate Mission

“ JCB's business is to manufacture, market and support Construction and Earthmoving equipment.

Our aim is to exceed customer expectation through innovation, continuous quality improvement and people involvement.

We will profitably grow along with our stakeholders and achieve market leadership in the core segments of our business. ”



India's Largest Manufacturer of Construction Equipment

## JCB INDIA DEALER NETWORK



- JCB Dealer : 54
- JCB Dealer Outlets 400+

We Care. That's why we're Everywhere.

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