

NEW VMI 17 COMPACTOR

**BHARAT
KA JCB**



Powered by

JCB ENGINE
ECOMAX



CEV IV
STAGE

EMPOWERING YOUR ROAD TO SUCCESS.

Operating Weight: 11,400 kg | Engine Power: 74 hp | Drum Width: 2,100 mm



EMPOWERING YOUR ROAD TO SUCCESS.

Introducing the **NEW** CEV Stage IV JCB VMI 17 COMPACTOR.

Roads are mean of livelihood for many as it connects cities to the hinterlands of the country. Roads are also a pillar of development and JCB has always looked for better ways to empower every aspect that takes the country forward. Therefore, we bring to you a powerful machine that expedites the work and contributes to sustainable development. Our new JCB VMI 17 is empowered with engineering brilliance thus, empowering you to build a road to a destination that connects ambitions with possibilities.





JCB VM117
SOIL COMPACTOR



MADE IN INDIA, MADE FOR SUCCESS.

Introducing the **NEW**
CEV Stage IV ecoMax Engine.

Efficient* | Reliable* | Simple*

JCB ENGINE
ecomax

CEV IV
STAGE

Well tested 
1,00,000+
cumulative hours



CRDi

16
Valves
Effort

TURBO
CHARGER

ROBUST FUEL
FILTRATION
SYSTEM

WATERPROOF
IP69
CONNECTORS

*T&C Apply.

EMPOWERING YOU WITH ENGINEERING EXCELLENCE

1 JCB ecoMAX 444 is one of the efficient & reliable engines in construction industry. The combination of CRDI technology with high pressure fuel line & swirl design in combustion chamber reduces the complicity & manages to achieve the CEV Stage IV norms value efficiently without after treatment.

2 A fuel efficient engine with CRDI Technology- low SFC, 16 valves effort and improved swirl for cleaner combustion.

3 Higher performance due to high torque at low speed. EGR with 2 stage cooling mechanism and turbocharger with Waste Gate Technology (WGT).

4 High swirl design for better combustion, no after treatment required.

5 Sturdy design of bedplate, robust fuel filtration system and IP69 connectors make the engine durable and reliable.

6 The engine is designed and tested rigorously to adapt to Indian conditions for more than 1,00,000 cumulative hours.

7 Common Rail Direct Injection (CRDI) technology saves fuel, gives more power and cleaner emission norms.

8 High performance* and more power with turbocharger.

9 Highly effective sensors to continuously monitor engine health.

*T&C Apply.



EMPOWERING WAYS TO REDEFINE BUSINESS

Reliability & Durability

- Robust JCB ecoMax Engine
- Reliable Hydraulics
- Robust Structure
- Articulation Joint
- Waterproof IP69 Connectors
- JCB Axle

Best-in-class Compaction*

- High Static Linear Load- 30.24kg/cm²
- Drum Thickness - 28mm with 10mm stiffening ring
- Single Piece Solid Eccentric Shaft
- 3 Piece Design Pad Foot Shell
- Heavy-duty Side Frame
- Tractive Effort

Ease of Service

- Easy access to engine bay with ground level access for daily check points
- Wide Opening Rear Bonnet
- Electronic Feed Pump
- Advanced LiveLink
- 700+ Outlet & 4000+ BSIV Experts
- Remote Engine Oil Drain

Styling & Operator Comfort

- Spacious Cabin
- All-round Visibility
- FOPS & ROPS for Enhanced Safety (Optional)
- Unique Engine Safety System

Lower Operating Cost

- No After Treatment
- No Adblue

10%* BETTER FUEL EFFICIENCY

NO AFTER TREATMENT



*Tested under controlled environment. T&C Apply

EMPOWERING STYLE

A NEW BOLD LOOK AND INTELLIGENT DESIGNING ENSURE MORE ATTITUDE, MORE SAFETY AND CONVENIENCE. IT IS NOW EQUIPPED WITH NEW DECALS, ROOF, SQUARE WORK LAMPS, PIPE COVERS ETC.

1 Better visibility during extended work hours due to rear lamps, work lamps, parking lights, direction indicator lamps and reverse lights.

2 Detailed and clear information of the machine through 4.2" digital display.



EMPOWERING HIGHER OUTPUT & POWERFUL COMPACTION

GET READY FOR POWERFUL COMPACTION IN OPTIMUM NUMBER OF PASSES WITH HIGHER FRONT WEIGHT RATIO WHICH PROVIDES HIGH STATIC LINEAR LOAD (30.24KG/CM²) COMBINED WITH OPTIMISED AMPLITUDE AND FREQUENCY.

- 1 Higher output as the 28mm thick solid drum now has 10 mm stiffening ring that makes it 38 mm from outside.
- 2 Better performance as the single piece solid eccentric shaft gives optimised amplitude and frequency.
- 3 Uninterrupted productivity even in slushy soil as the 3 piece design pad foot shell makes it easy to convert to PD compactor.
- 4 Get more stability due to heavy-duty side frame.



EMPOWERING RELIABILITY & DURABILITY

THIS MACHINE IS ENGINEERED TO PERFORM EVEN ON THE MOST DEMANDING SITE WITH LESSER BREAKDOWN AND EFFICIENCY.

- 1 More productivity and outstanding performance in tough terrain as the JCB ecoMax engine has heavy-duty cast iron cylinder blocks, bedplate, cylinder head and forged crankshaft, providing more strength and long life.
- 2 More uptime in every condition due to reliable, durable and efficient German hydraulic components.
- 3 More output, strength and durability, due to the drum with quality finite element analysis which is tested rigorously.
- 4 Longer life, safety and protection as the electrical harness is dust & waterproof with IP69 connectors.
- 5 Quick uptime and durability due to reliable axels and easy availability of critical components.
- 6 Lesser maintenance cost and more output with lifetime lubricated articulation joints.



EMPOWERED SAFETY & COMFORT

EMPOWER YOUR OPERATOR WITH A COMFORTABLE CABIN THAT IS DESIGNED TO KEEP HIM/HER FATIGUE-FREE. THE ERGONOMICALLY PLACED LEVERS AND CONTROLS GIVE THE OPERATOR EASE OF OPERATION.



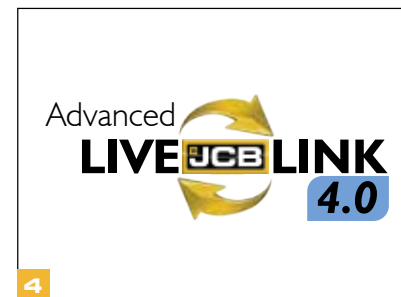
1 Get efficiency and ease due to the functional design of controls, console and steering wheel.

2 Fatigue-free operations, lesser noise and vibrations as the cab platform is mounted on 4 viscous mounts that isolate vibration even during high amplitude passes.

3 Better operator performance with a comfortable seat designed for longer duration.

4 Be rest assured about the security of the machine with LiveLink, it alerts you on fuel theft, tow away, intrusion, geo fencing and battery removal.

5 Safer operations as the cabins are FOPS & ROPS compliant (optional).



EMPOWERED EASE OF SERVICE

SUCCESS IS NOW POSSIBLE WITH MORE EARNINGS, MORE WORKING HOURS AS NOW YOU CAN ACHIEVE QUICKER REPAIR, LESSER BREAKDOWN WITH EASY DESIGN AND DURABLE COMPONENTS.

- 1 The ground level engine bay gives easy access for routine check, thereby, reducing maintenance time and increasing productivity.
- 2 More uptime and output as the rear bonnet is now 70% wider, making it easy to reach engine compartment.
- 3 Longer engine life as the Electronic Feed Pump requires no manual priming and leaves no chance of air intake in fuel feed pipe.
- 4 More working hours and reduced breakdown time as the informative cluster digital visual warning system displays malfunctioning info and gives ERROR code. You can share this description with service engineer so that he comes prepared on the site.
- 5 Quick maintenance and more uptime with engine oil drain alert.



EMPOWERED PROMPT SERVICE

4000+ CEV STAGE IV
SERVICE ENGINEERS

EXTENSIVE CUSTOMER SUPPORT NETWORK

With 750+ outlets, JCB has widely spread and prompt support system in the construction industry.

One Shop Solution-JCB manufactures all major parts of its machine which are readily available at its dealerships & outlets ensuring rapid customer service support.

4000+ service engineers are trained & certified for CEV Stage IV machines, thereby, quickly resolving any customer concern.



60+
Dealers



700+
Outlets



3000+
Mobile service
engineers



18 Operator
training centres



5
Parts warehouses



24x7
Support
12 Languages



250+
Service
vans

EMPOWERING LIVELINK

INTRODUCING THE NEXT GENERATION ADVANCED TELEMATICS TECHNOLOGY- LIVELINK



LiveLink is an advanced telematics technology which helps you monitor and manage your machine fleet remotely from anywhere in the world via web or your smartphone.

Power of LiveLink: With LiveLink you can reduce fuel cost, optimise machine, operator performance, proactively manage service and maintenance to maximise uptime. Stay connected to your machines via remote monitoring, experience new levels of control and efficiency with LiveLink.

SERVICE



Service reminder: Reminds you when the service of your machine is due; the reminder helps you plan your work better.



Machine data backup: Helps to maintain the records of past services in an organised manner.



Critical machine health alerts: Lets you know the inside of your machine from a far away location. Helps in taking proactive measures to avoid breakdown through alerts.

OPERATION



Fuel level information: View fuel usage of your machine, which helps in analysing your machine's fuel consumption, thus, helping you improve efficiency and save on fuel. It also reports any sudden fuel level decrease.



Machine utilisation reports: Maintains machine usage record and helps you analyse & optimise utilisation of the machine.



Engine status: Informs you if your JCB machine's engine is switched ON or OFF.

SECURITY



GPS tracking: Tells you the exact location of your machine on a map.



Operating hours: Lets you control the machine operation in permitted time frame.



Tow away alerts: Help you save your machine from intruders and possible towaways.



Geofencing: Lets you keep your machine within the allocated area of work.



EMPOWERED INTELLI COMPACTION

An intelligent compaction measurement, a unique productivity management system **Intelli Compaction** eliminates the guess work and takes the productivity to a whole new level.



Features

- Compaction value
- Low & high vibration hours
- Vibrator frequency and amplitude
- Date, time, location & temperature on display
- Jump operation
- LiveLink connectivity
- Day/night mode

Benefits

Productivity:



Optimises no. of passes & eliminates guess work



Compaction pattern analysis



Weather information

Process:



Real-time compaction productivity information



24x7 connectivity through LiveLink



Printed daily & weekly performance report



Data analytics & site management

Profit:



Reduces cycle time & overall cost



Prevents penalties and extra work



Over compaction alerts



EMPOWERED CARE

GIVE YOUR MACHINE EXTENDED WARRANTY AND CARE.

- JCB Careplus is an extended warranty programme that comes into effect after the machine's standard warranty expires.
- JCB Careplus can be purchased within the 1st year from the sale of the machine.
- The programme offers you peace of mind and saves your maintenance cost even after your machine's standard warranty expires.



Extended
Warranty
Programme



BENEFITS OF JCB CAREPLUS



No limits on number of claims



Preventive maintenance service*



Nationwide coverage*



JCB skilled manpower support



Maximum productivity



Maximum uptime



Maximum performance



Breakdown cost protection



Better resale value

*T&C Apply.

JCB LOYALTY PROGRAMME



We believe that customer loyalty is paramount to any brand's success. Our loyalty programme is a reflection of our brand promise and our constant endeavour to offer you more than your expectations.

Instant membership card | Welcome kit
Reward points | Extended benefits
Special programme features

Blue Card



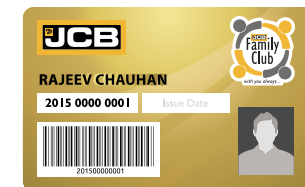
On purchase of a new machine or parts worth ₹1,000

Silver Card



Blue members making a purchase of ₹25,000 in the quarter

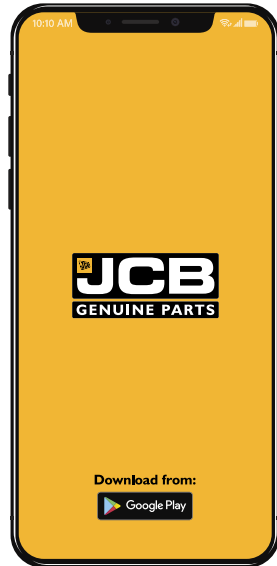
Gold Card



Silver members making a purchase of ₹50,000 in the quarter

SMART & DIGITAL SUPPORT

Assured parts supply



JCB in India has built a robust logistics and supply management chain across the country that facilitates the provision of parts for all machines in the shortest time. Customers can now get JCB genuine parts easily and conveniently through its mobile app.

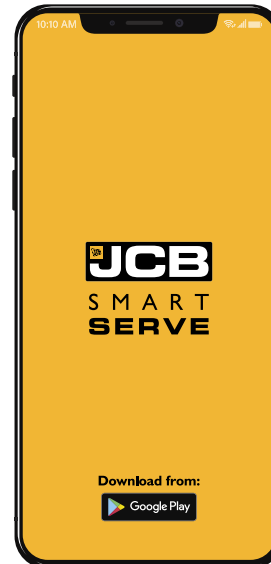
Download from:



Scan the QR Code to connect to JCB Support Facebook Page



Smart Serve



Our service engineers are equipped with Smart Serve technology which enables JCB to send the nearest engineer to the machine, ensuring maximum uptime.

Upgraded connect



Be assured of your JCB machine's service, operation and security parameters with the advanced telematics system - LiveLink and now with the all new LiveLink mobile app, monitor your machine anytime, anywhere with just a touch.

Download from:



EXTENSIVE PARTS SUPPORT



Our wide range of JCB attachments complete your machine's performance with maximum efficiency and productivity and thus, reducing downtime and increasing savings.

- Value for money
- Perform in synergy with multiple products
- Maximise your machine's performance
- Demonstrate exemplary durability & reliability



Being compatible with JCB machines, the range of JCB lubricants assure a 100% better life for all your JCB genuine parts.

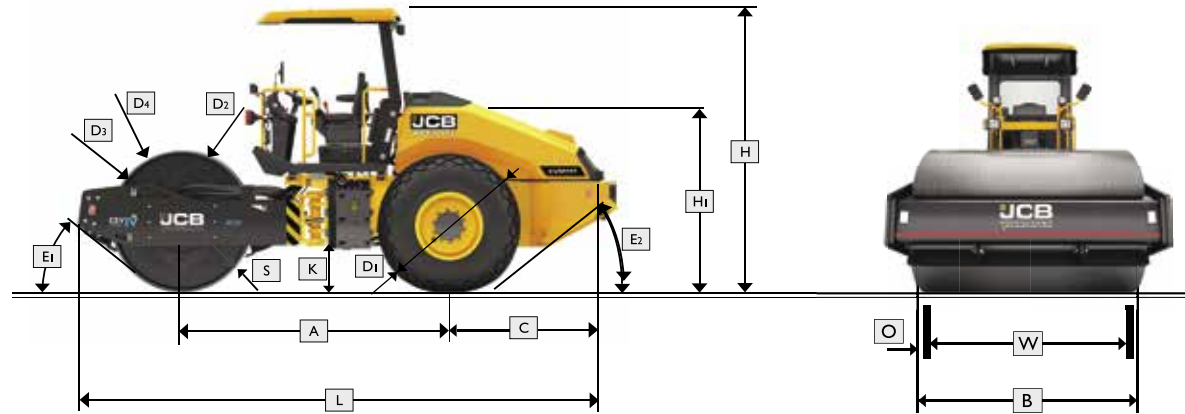
- JCB lubricants meet JCB specifications
- JCB lubricants are specially formulated as per JCB specifications
- High-quality base oils blended with very high-quality additive packages
- Peak performance in hazardous condition due to the following reasons:
 - Maintains viscosity at higher temperature and pressure
 - Load carrying capacity
 - Oxidation stability
 - Dispersant
- Complete equipment protection



JCB genuine parts offer a comprehensive machine protection solution. Designed to work in conjunction with JCB fluids in the JCB engines in synergy with other component systems, ensuring:

- Optimum flow and system efficiency
- Maximised engine performance
- Reduced running costs
- Compliance with emissions norms
- Protection from system contamination





STATIC DIMENSIONS

Dimensions in mm			
A	Wheel base	mm	2906
B	Overall width	mm	2240
H	Height to top of ROPS	mm	2994
H1	Height to top of seat	mm	2310
K	Ground clearance	mm	443
L	Total travel length	mm	5781
S	Drum thickness	mm	28
W	Drum width	mm	2100
C	Axle to rear face	mm	1768
O	Overhang	mm	70
E1	Front aperture angle	deg	39
E2	Rear departure angle	deg	33.5
D1	Wheel diameter (non-static)	mm	1560
D2	Drum diameter	mm	1500
D3	Inner diameter of pad foot	mm	NA
D4	Outer diameter of pad foot	mm	NA
	Steering Angle lock to lock	deg	35
	Oscillating angle	deg	15
	Min. turning radius (outside roller)	mm	11336
	Min. turning radius (outside roller frame)	mm	11475
	Travel speed	km/h	10
	Working speed	km/h	5
	Low frequency /high amplitude	Hz/mm	32 / 1.8
	High frequency / low amplitude	Hz/mm	32 / 0.8

OPERATING DATA

		VM117NDD	VM117DD
Weight (canopy version)	Kg	11400	11443
Front /rear reaction	Kg	6501/4899	6562/4881
Centrifugal force	kN	256/146	
Frequency	Hz	32/36	
Amplitude	mm	1.8/0.8	
Max. travel speed	km/h	10	10
Max. working speed	km/h	5	5
Max. gradient w/o vibration	%	28	50
Max.gradient with HFLA vibration	%	25	40
Max/min. machine operating temperature	°c	+50/-10	
Max. altitude	m	2000	
Emission	-	CEV Stage-IV	
Drum diameter	mm	1500	
Tyre diameter @1.6P{PSI}	mm	690-710	
Machine Length	mm	5781	
Engine rated speed	RPM	2200	
Engine operating speed	RPM	1850	
Engine rated power	kW@RPM	55@2200	
Peak torque	Nm@RPM	400@1200	
Hydraulic oil ISO VG46	-	JCB HVI hydraulic oil	

ENGINE

Four-cylinder, water-cooled, four-stroke, turbo charged, after-cooled diesel engine.

Make	JCB
Model	444TA4-55
Total displacement (cm ³)	4399
Gross power (hp)	73.8
Operating speed / Rated (rpm)	1850/2200
Starting device	Electric motor
Air cleaner	Two stage dry type
Fuel filter	Cartridge
Emission	CEV Stage- IV

PROPULSION

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 centre articulation with automatic oscillation.

SERVICE CAPACITIES

Fuel	300 L
Engine oil (Engine)	15 L
Gear oil (Exciter)	3.3 L
Hydraulic oil	80 L
Coolant / System	21L

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	120
Alternator (Current carrying capacity)	A	105

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, four working lights, head lamps, turn signal, hazard-warning lights.

OPTIONS

ROPS & FOPS canopy, compatronic, padded foot drum shell, rear glass, remote oil drain, front work lights, flymesh.

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ONE COMPANY, OVER 300 MACHINES.

Dealer's stamp:

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