

### **SINGLE DRUM SOIL COMPACTOR** | VMII7/VMI37

Operating weight (cabin): 11.300kg/12.550kg Engine power: 93–108kW (125–145hp) Drum width: 2100mm



## **PRODUCTIVITY MAXIMISED.**

THE VMII7 AND VMI37 ARE DESIGNED TO GIVE YOU ULTIMATE PRODUCTIVITY. EQUIPPED WITH INNOVATIVE ECOMAX ENGINES THEY PROVIDE REDUCED LIFE CYCLE COSTS AND FUEL CONSUMPTION WITHOUT THE NEED FOR A DPF.

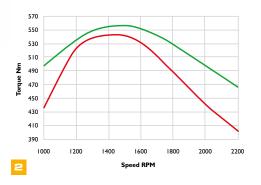


### **Built for efficiency.**

- 1 The Stage 3B/T4i-compliant JCB EcoMAX engine is equipped with a variable fan as standard, providing your VMI17 or VMI37 with fuel savings of up to 6%.
- The JCB EcoMAX engine delivers a massive 550Nm (VMII7) and 560Nm (VMI37) of torque, at low engine speeds for optimum responsiveness, for fuel-efficient matching of transmission and hydraulics.







You can expect class-leading low fuel

### Saving time and money.

- Both of these models boast quick (up to 11 km/h) travel times around site, which also speeds up preparation for the next compaction pass.
- 4 These soil compactors have a tight turning circle for excellent manoeuvrability on confined sites.

### Complete compaction.

Front weight ratio is high which provides a very high static linear load. Combined with optimised amplitude and frequency, this helps you to achieve the ultimate homogenous compaction performance in the lowest possible number of passes on every surface from sand to rock.

You'll benefit from class-leading 60% gradeability with an EcoMAX engine, thus ensuring great versatility and productivity anywhere in the world. The motor itself is a high performance unit (VMII7 – 4.4-litre, VMI37 – 4.8-litre), and it's combined with high-torque hydraulic components and optimised weight distribution.

If you plan to use your machine to compact clay, opt for our pad foot drum to improve water evaporation and, therefore, create more stable soil. For added versatility, choose a pad foot shell kit, which offers the best of both worlds.









| MAXIMUM COMPACTED LAYER THICKNESS |   |         |             |            |           |  |
|-----------------------------------|---|---------|-------------|------------|-----------|--|
| Model                             |   | Rock    | Sand/Gravel | Mixed Soil | Clay/Loam |  |
| VMII7 D                           | m | 0.6     | 0,3-0,4     | 0,3-0,4    | 0.2       |  |
| VM117 PD                          | m | -       | -           | -          | 0.25      |  |
| VM 137 D                          | m | 0,7-0,9 | 0,5-0,6     | 0.5        | 0.3       |  |
| VM 137 PD                         | m | -       | -           | -          | 0.4       |  |

# **QUALITY, RELIABILITY AND DURABILITY.**

SOIL COMPACTORS HAVE TOUGH LIVES, WHICH IS WHY WE'VE DESIGNED AND BUILT THE VMII7 AND VMI37 TO BE AS ROBUST AS THEY CAN BE. PRODUCTIVITY AND UPTIME ARE MAXIMISED ACCORDINGLY.





### Quality at its best.

- 1 For maximum reliability, our new exciter system only has 2 moving parts, providing standard dual amplitude / dual frequency setting.
- The fuse box is positioned underneath the seat console, well protected and within easy reach.
- All of our soil compactors are subjected to a 2-hour hot test to make sure they're ready for trouble-free use from day one.
- 4 We use advanced manufacturing and assembly processes to ensure maximum precision and quality of components.

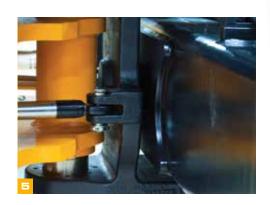






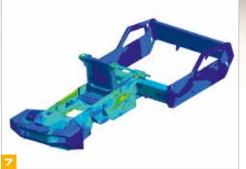
### Designed for reliability.

- The robust maintenance-free centre joint has been the trusted mainstay of JCB's VMII5 soil roller generation and it continues to offer reduced servicing costs on these machines too.
- To prove our EcoMAX engines' durability, we've done 110,000 hours of testing in 70 different machines across the toughest applications and environments.
- The frame of the VMI17 and VMI37 is designed using finite element analysis, and it's fully strain gauged. It's also been tried and tested across various machines, applications and environments.
- A sturdy rear frame structure protects the glass fibre engine bonnet and the cleverly integrated rear light cluster\*.











<sup>\*</sup>Rear road lights are optional.

## VISIBLE BENEFITS.

WE BELIEVE THAT IN ORDER FOR SOIL COMPACTORS TO OFFER MAXIMUM PRODUCTIVITY, THEY NEED TO FIRST OFFER MAXIMUM VISIBILITY. THE VMII7 AND VMI37 ARE DESIGNED TO DO JUST THAT.

### 360° visibility.

- 1 There's superb all-round visibility on a VM117 and VM137 courtesy of a pillarless front cab design, and a sloping rear bonnet.
- We use flat glass panels on these soil compactors (unlike our competitors), which makes replacement quick and easy.
- Precision is guaranteed with the new clear view front screen and minimal front display, which help to provide an unrestricted view to the front drum edges.
- 1 The design of these machines incorporates an angled bonnet profile for an unrestricted view of the rear edge.









## **COMFORTABLY SUPERIOR.**

TO GET THE MOST OUT
OF YOUR VMII7 AND VMI37,
IT'S CRUCIAL THAT
OPERATORS CAN PERFORM
THEIR JOB EFFICIENTLY
AND IN ALL-DAY COMFORT.
AS SUCH, BOTH MACHINES
ARE DESIGNED TO OFFER
A GREAT WORKING
ENVIRONMENT.

### Designed for ease of use.

- Operators can get working quickly on a VMII7 or VMI37 because of the intuitive, easy-to-use and ergonomic controls, all laid out in the industry standard.
- Our easily adjustable tilting steering column provides maximum comfort.
- When operators are getting in and out, there are three points of contact at all times; access steps are inclined and equally spaced, and there are well-positioned grab handles.

To make life easier, you only need one key to operate the ignition, door and bonnet.



#### Comfort on the move.

- E Fatigue-free all-day operation comes as standard: these machines are designed to offer low in-cab noise levels. What's more, by isolating the operator stand with 4 heavy duty rubber mounts, we've ensured class-leading low vibration levels too.
- The well positioned coloured TFT display provides the operator with direct reading machine data and error information.





# LESS SERVICING, MORE SERVICE.

WE UNDERSTAND THAT A SOIL COMPACTOR IS ONLY PROVIDING ULTIMATE PRODUCTIVITY AS LONG AS IT'S ON-SITE WORKING FOR YOU. THAT'S WHY WE'VE DESIGNED THE VMII7 AND VMI37 TO OFFER MAXIMUM UPTIME WITH SIMPLE, MINIMISED SERVICING.



- 1 For ease of servicing, the VMII7 and VMI37 are designed so that all daily checks can be done from ground level on one side. A wide opening rear bonnet gives fast access to the engine compartment.
- Testing and servicing are quick and easy because service ports, key fuses and the isolator key are all centralised and easy to access. An emergency towing valve is standard-fit on both machines.
- To extend service intervals (and therefore productivity) both models feature a cyclonic air cleaner which reduces debris build-up in the air filter. An air intake scavenge system then removes the debris.
- Local JCB dealer servicing is easy and cost-effective, with all aftermarket requirements catered for.











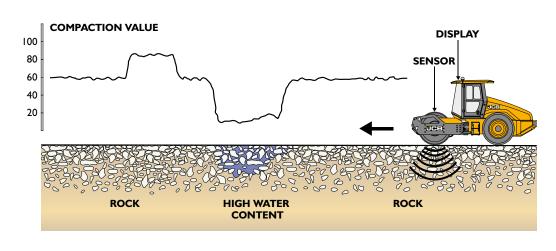
#### Drum maintenance.

- The front frame is fully bolted for great service access to the drum. The bolt heads are fully inserted into a rigid side frame.
- A long service life and reduced running costs are ensured by JCB's unique preloaded rubber mountings; the design means that the rubber mounts can't be overloaded and can be quickly replaced.
- **7** The hydraulic hoses are completely protected from potential damage and dirt by a massive cover plate.



### **COMPACTION MEASUREMENT.**

THE INNOVATIVE TECHNOLOGIES USED ON THE VMII7 AND VMI37 ARE INTUITIVE AND RELIABLE UNDER ALL WORKING CONDITIONS, ENSURING THAT YOUR COMPACTION WORK IS AS EFFICIENT, SAFE AND SUCCESSFUL AS CAN BE.



### Efficient compaction.

To make your compaction operation as efficient as possible, you can fit optional JCB COMPATRONIC systems to your VMII7 and VMI37. There are three systems available, ranging from basic to high-end; whichever one you opt for, an accelerator sensor mounted next to the drum will measure the reaction from the ground and provide feedback about the rebound to the corresponding system.

The upshot is that you can minimise your number of passes, avoid over-compaction and prevent jump operation, which can damage both machinery and soil composition. The more sophisticated COMPATRONIC PRO and NAV versions are comprehensive compaction measurement systems with tracking and documentation functions for quality control.

COMPATRONIC COMPATRONIC PRO COMPATRONIC NAV







Round display with LED scale for display of the relative compaction value, warning lamp for jump operation and LED display for vibratory frequency

Economic solution for a comprehensive compaction control system with a TCD display for a track view up to 18 tracks. Display of the relative compaction value, working speed, amplitude and frequency as well as jump operation.

High end comprehensive compaction control system with a coloured tablet and easy to run operator menu. Three workings modes to achieve required compaction specification are possible (number of passes, relative compaction value in relation to plan value and increase of compaction per pass).

Search for weak compaction areas

GPS sensor optional

Print functionality

Reduce number of passes & avoid overcompaction

GPS sensor allows true positioning of the machine in construction drawing, visible on tablet screen.



# LIVELINK, WORK SMARTER.

LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MANAGE JCB MACHINES REMOTELY — ONLINE, BY EMAIL OR BY MOBILE PHONE. ACCESS EVERYTHING FROM MACHINE ALERTS TO FUEL REPORTS AND HISTORY INFORMATION, WITH ALL DATA STORED AT A SECURE CENTRE.

### **Productivity and cost benefits**

By providing information like idle time monitoring and machine fuel consumption, JCB Livelink helps reduce your fuel usage, saving money and improving productivity. Machine location information can help improve efficiency and perhaps even reduce insurance costs.





#### **Maintenance benefits**

Manage machine maintenance easily — accurate hours monitoring and service alerts improve maintenance planning, while real-time location data helps you manage your fleet. Critical machine alerts and maintenance history records are also available.





### **Security benefits**

Livelink's real-time geofencing alerts tell you when machines move out of predetermined zones, and real-time curfew alerts inform you of unauthorised usage.



## **VALUE ADDED.**

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.

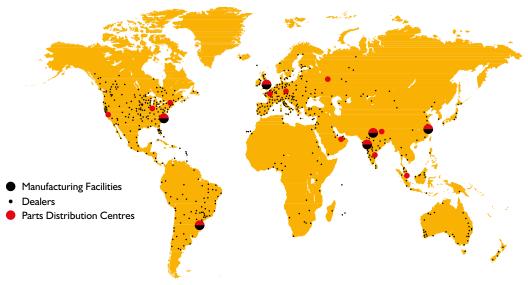


- 1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.
- The global network of JCB Parts Centres is another model of efficiency; with 16 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



ICB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.





## **OPTIONS LIST.**

WHICHEVER OPTION YOU CHOOSE - FULLY **GLAZED CAB OR ROPS STRUCTURE WITH SUNROOF - OPERATOR COMFORT AND SAFETY** ARE SUPERB, HELPING YOU MAKE COMPACTION **WORK MORE PROFITABLE.** 

#### VMII7 AND VMI37

STANDARD FEATURES Hydrostatic rear axle and drum drive Front and rear steel scrapers Hydrostatic vibration drive Centralized hydraulic service station Servo assisted center articulation Battery main switch with vertical oscillation Hydraulic hand pump for brake release JCB axle with limited slip differential 3 stage air cleaner Info and warning display Air intake scavenge system One lever control for propulsion and vibration One key solution AVC (Automatic Vibration Control) Vibration isolated operator stand Uphill / down hill traction control Noise isolation Power charger 12V Emergency Stop switch Fully adjustable operator seat Back-up warning horn Adjustable steering column Live Link. Immobiliser

OPTIONS Cabin

Heating Air Conditioning Radio ROPS/FOPS incl. handrails Sunroof Instrument panel cover Halogen working lights LED working lights

Road traffic lights

Rotary Beacon

Polyurethane scrapers (only D)

PD shell kit (only D) Levelling blade

Seat variants Vinyl or fabric seat, fixed or pivoting seat console, mechanical or air suspension

3" seat belt

Compatronic (compaction measurement systems)

Grid heater Fuel lubrication filter Bio degradable hydraulic oil Tropical hydraulic oil.

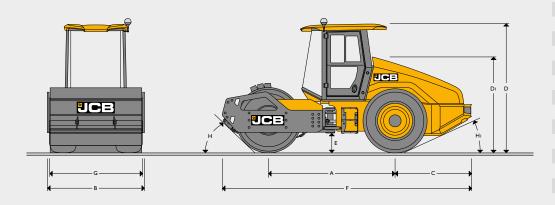


ROPS/FOPS with sunroof and halogen working lights.





#### STATIC DIMENSIONS



|    |                                 |     | VM 117 D | VM 117 PD | VM 137 D | VM 137 PD |
|----|---------------------------------|-----|----------|-----------|----------|-----------|
| Α  | Wheelbase                       | mm  | 2930     | 2930      | 2930     | 2930      |
| В  | Overall width                   | mm  | 2230     | 2230      | 2230     | 2230      |
| С  | Axle to rear face               | mm  | 1760     | 1760      | 1760     | 1760      |
|    | Drum diameter                   | mm  | 1500     | -         | 1500     | -         |
|    | Drum diameter min (Padfoot)     | mm  | -        | 1400      | -        | 1400      |
|    | Drum diameter max (Padfoot)     | mm  | -        | 1600      | -        | 1600      |
| D  | Total height with cabin/ROPS    | mm  | 3000     | 3070      | 3000     | 3070      |
| Dι | Total height without cabin/ROPS | mm  | 2250     | 2320      | 2250     | 2320      |
| Ε  | Ground clearance                | mm  | 445      | 445       | 445      | 445       |
| F  | Total travel length             | mm  | 5690     | 5690      | 5690     | 5690      |
|    | Drum thickness                  | mm  | 25       | 15        | 30       | 20        |
| G  | Drum width                      | mm  | 2100     | 2100      | 2100     | 2100      |
| Н  | Departure angle front           | deg | 46       | 46        | 46       | 46        |
| Нι | Departure angle rear            | deg | 32       | 32        | 32       | 32        |

| ENGINE              |         |                |                |                |                |
|---------------------|---------|----------------|----------------|----------------|----------------|
|                     |         | VM 117 D       | VM 117 PD      | VM 137 D       | VM 137 PD      |
| Manufacturer        |         | JCB            | JCB            | JCB            | JCB            |
| Model               |         | 444/EcoMAX     | 444/EcoMAX     | 448/EcoMAX     | 448/EcoMAX     |
| Displacement        | 1       | 4.4            | 4.4            | 4.8            | 4.8            |
| Bore                | mm      | 103            | 103            | 106            | 106            |
| Stroke              | mm      | 132            | 132            | 135            | 135            |
| Torque              | Nm      | 550            | 550            | 560            | 560            |
| No. of cylinders    |         | 4              | 4              | 4              | 4              |
| Cooling             |         | Water          | Water          | Water          | Water          |
| Emmision compliance |         | T4i Stage IIIb | T4i Stage IIIb | T4i Stage IIIb | T4i Stage IIIb |
| Performance         | kW (hp) | 93 / 125       | 93 / 125       | 108 / 145      | 108 / 145      |
| Operating speed     | rpm     | 2200           | 2200           | 2200           | 2200           |

| OPERATING DATA                    |       |                         |                           |                         |                           |  |
|-----------------------------------|-------|-------------------------|---------------------------|-------------------------|---------------------------|--|
|                                   |       | VM 117 D                | VM 117 PD                 | VM 137 D                | VM 137 PD                 |  |
| Operating weight max.             | kg    | 13300                   | 13300                     | 14550                   | 14550                     |  |
| Operating weight Cabin            | kg    | 11300                   | 11300                     | 12550                   | 12550                     |  |
| Operating weight ROPS             | kg    | 10900                   | 10900                     | 12150                   | 12150                     |  |
| Weight front / rear Cabin         | kg    | 6200 / 5100             | 6200 / 5100               | 7200 / 5350             | 7200 / 5350               |  |
| Weight front / rear ROPS          | kg    | 6000 / 4900             | 6000 / 4900               | 7000 / 5150             | 7000 / 5150               |  |
| Static linear load                | kg/cm | 29.5                    | 29.5                      | 34.3                    | 34.3                      |  |
| Frequency                         | Hz    | 33 / 36                 | 33 / 36                   | 31/36                   | 31/36                     |  |
| Amplitude                         | mm    | 1,83 / 0,75             | 1,83 / 0,75               | 1,98/0,9                | 1,98/0,9                  |  |
| Centrifugal force                 | kN    | 256 / 125               | 256 / 125                 | 282 / 173               | 282 / 173                 |  |
| Working speed (forward / reverse) | km/h  | 0-8                     | 0-8                       | 0-8                     | 0-8                       |  |
| Travel speed (forward / reverse)  | km/h  | 0-11                    | 0-11                      | 0-11                    | 0-11                      |  |
| Steering angle                    | deg   | +/- 35                  | +/- 35                    | +/- 35                  | +/- 35                    |  |
| Oscillating angle                 | deg   | +/- 15                  | +/- 15                    | +/- 15                  | +/- 15                    |  |
| Inner turning radius              | mm    | 3380                    | 3380                      | 3380                    | 3380                      |  |
| Tyre sizes                        |       | 23.1 - 26 / 8<br>PR AWT | 23.1 - 26 / 12<br>Tractor | 23.1 - 26 / 8<br>PR AWT | 23.1 - 26 / 12<br>Tractor |  |
| Number of padfeet                 |       | -                       | 132                       | -                       | 132                       |  |
| Height of padfoot                 |       | -                       | 100                       | -                       | 100                       |  |
| Gradeability up to                | %     | 60                      | 60                        | 60                      | 60                        |  |

| SERVICE CAPACITIES |   |          |           |          |           |  |  |
|--------------------|---|----------|-----------|----------|-----------|--|--|
|                    |   | VM 117 D | VM 117 PD | VM 137 D | VM 137 PD |  |  |
| Fuel               | 1 | 285      | 285       | 285      | 285       |  |  |
| Engine oil         | 1 | 14       | 14        | 14       | 14        |  |  |
| Gear oil (exciter) | 1 | 8        | 8         | 8        | 8         |  |  |
| Hydraulic oil      | 1 | 75       | 75        | 75       | 75        |  |  |

| ELECTRICAL SYSTEM |    |          |           |          |           |
|-------------------|----|----------|-----------|----------|-----------|
|                   |    | VM 117 D | VM 117 PD | VM 137 D | VM 137 PD |
| Voltage           | V  | 12       | 12        | 12       | 12        |
| Battery capacity  | Ah | 120      | 120       | 120      | 120       |
| Alternator        | V  | 60       | 60        | 60       | 60        |



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Your nearest JCB dealer

### Single Drum Soil Compactor VMI 17/VM137

Operating weight (cabin): 11.300kg/12.550kg
Engine power: 93–108kW (125–145hp) Drum width: 2100mm

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