

SPECIFICATION



SINGLE DRUM SOIL COMPACTOR | VM118D STAGE V

Operating weight: 11,950 – 13,500kg Engine power: 55kW Centrifugal force: 256 / 146kN



WORKS FASTER, DRINKS LESS

A game-changer for total cost of ownership, this single drum soil compactor is the ultimate choice for all kinds of compaction. From road construction to building foundations to constructing railway tracks, it rolls from task to task with ease.

MAXIMUM PERFORMANCE

The VM118D is the first single drum soil compactor in its class with a 55kW engine, requiring no DEF, reducing exhaust treatment and maintenance costs.



MAXIMUM PRODUCTIVITY

Compaction power on the VM118D is best in class, with a vibrator force of 256kN, compacting in less passes for the operator.

MAXIMUM COMFORT

The VM118D ensures easy, precise operation with market-leading front and rear visibility and a comfortable seat.



MAXIMUM SERVICEABILITY

The JCB VM118D is designed for ease of servicing. All daily checks can be completed from ground level and no greasing is required.

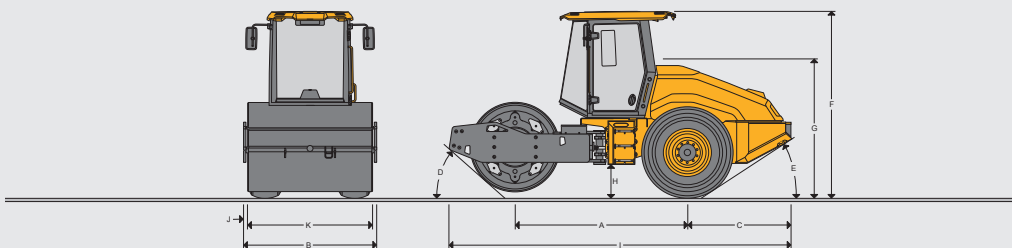
MAXIMUM CONNECTION

The INTELLICOMPACTION measurement system helps operators compact with a minimum number of passes and avoid over-compaction.

SPECIFICATION

VM118D SINGLE DRUM SOIL COMPACTOR

STATIC DIMENSIONS



| STATIC DIMENSIONS | | | CABIN ROPS/FOPS |
|-------------------|------------------------------------|---------|-----------------|
| A | Wheelbase | mm | 2906 |
| B | Overall width | mm | 2240 |
| C | Axle to rear face | mm | 1761 |
| D | Front departure angle | degrees | 39 |
| E | Rear departure angle | degrees | 29 |
| F | Total travel clearance | mm | 3020 |
| G | Height to top of seat (unfolded) | mm | 2280 |
| H | Ground clearance | mm | 443 |
| I | Total travel length | mm | 5781 |
| J | Overhang | mm | 70 |
| K | Drum width | mm | 2100 |
| | Drum diameter | mm | 1500 |
| | Drum shell thickness | mm | 28 + 10 |
| | Inner drum diameter (PD shell kit) | mm | 1500 |
| | Outer drum diameter (PS shell kit) | mm | 1680 |

ENGINE

| | | |
|-------------------------------|-----------------|--------------------|
| Manufacturer | | JCB |
| Model | | JCB DIESELMAX 430 |
| Total displacement | cm ³ | 2978 |
| Gross power | kW | 55 |
| Operating speed / Rated speed | rpm | 1850 / 2200 |
| Starting device | | Electric motor |
| Air filter | | Two stage dry type |
| Air filter cleaning | | Scavenge system |
| Fuel filter | | Cartridge |
| Emission level | | Stage V |

SERVICE CAPACITIES

| | | |
|--------------------|--------|------|
| Fuel | litres | 250 |
| Engine oil | litres | 14.5 |
| Gear oil (exciter) | litres | 3.3 |
| Hydraulic oil | litres | 80 |
| Coolant | litres | 22 |

PROPULSION

Infinitely variable hydrostatic direct drive by fixed displacement motor on rear axle and drum.
JCB axle with limited slip differential (LSD).

EXCITER DRIVE

Electronically-controlled hydrostatic direct drive on drum.

OPERATING DATA

| | | CABIN ROPS/FOPS |
|--|-------------|-----------------------|
| Operating weight CECE | kg | 11950 |
| Maximum operating weight | kg | 13500 |
| Operating axle load front / rear | kg | 6750 / 5200 |
| Static linear load | kg/cm | 32.2 |
| Vibration | | 1 / 2 |
| Frequency | Hz (vpm) | 32 (1920) / 36 (2160) |
| Amplitude | mm | 1.80 / 0.80 |
| Centrifugal force | kN | 256 / 146 |
| Working speed (forward / reverse) max. | km/h | 0 – 5 |
| Travel speed (forward / reverse) max. | km/h | 0 – 10 |
| Steering lock angle | degrees | 35 |
| Oscillation angle | degrees | 15 |
| Inner turning radius | mm | 3400 |
| Tyres | | 23.1 – 26 |
| Number of padfeet (optional PD shell) | | 132 |
| Height of padfeet (optional PD shell) | | 90 |
| Gradeability up to | degrees / % | 28.5 / 55 |

ELECTRICAL SYSTEM

| | | |
|------------------|----|-----|
| Voltage | V | 12 |
| Battery capacity | Ah | 120 |
| Alternator | A | 105 |

EXCITER

Dual-amplitude circular exciter with overturning weights.

STEERING SYSTEM

Servo assisted centre articulation with automatic oscillation – all free of maintenance.

BRAKING SYSTEM

Service brake: Hydrostatic propulsion system.

Parking brake: Hydrostatically-released multi-disk brake on rear axle and drum drive (ECO: on axle only).

Emergency brake: Hydrostatically-controlled, disk brake on rear axle and drum drive (ECO: on axle only).

INDICATORS AND SWITCHES

Engine RPM with 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, speedometer, inclinometer, seat belt monitoring.

STANDARD CONFIGURATION

Front & rear winching eyes, lockable engine bonnet (flat profile for excellent visibility), lockable plastic fuel tank with protected cap under bonnet, high-viz engine compartment, all filters accessible from ground level, air filter scavenge system, LiveLink telematics, 2 frequencies, 2 amplitudes, remote engine oil drain, one key fits all, towing pump, heavy-duty vibrator coupling, main battery switch, parts book, operator manual, polyurethane scrapers.

ROPS/FOPS CABIN: adjustable steering column, suspended, fabric comfort seat, rotating seat arrangement including side pod and ergonomic drive lever, 7" JCB UX display with all machine functions, fish eye rearview mirror, AVC (automatic vibration control), travel speed and torque selector with 4 working modes (work / travel / gradient / PD-shells), document pouch, cup holder, fan guard, flat glasses, air-condition, heating, CE marking, 4 integrated dual-colour beacons, front & rear LED working lights.

OPTIONS

INTELLICOMPACTION (compaction measurement device), PD (padfoot) shell kit (3 segments complete with scraper), safety-kit (road traffic lights, white noise reverse alarm, immobiliser) & homologation kits.



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

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