



## DOUBLE DRUM ROLLER | VMD70/VMD100

VMD70: Drum width: 650mm Operating weight: 740kg VMD100: Drum width: 750mm Operating weight: 920kg



**When you're in a tight spot...**  
**trust the JCB VMD70 and VMD100**  
**to get the job done**



Introducing the super-robust VMD70 and VMD100 compact walk-behind rollers. With best-in-class manoeuvrability, safety and serviceability, these are incredibly versatile machines, even in the tightest of spaces.

Fully hydrostatic for excellent traction and reliability, both machines offer the very best kerb clearance on the market, as well as being comfortable and easy to use. The combination of static weight, manoeuvrability, amplitude and high frequency makes the VMD70 and VMD100 clear market leaders when it comes to the most important thing: productivity.

The great-looking new models are available as manual or electric start and are a direct response to customer feedback on the previous range. They now boast a complete new machine layout which moves the engine to the front and the huge water tank to the rear, creating the near perfect 50/50 weight distribution so crucial for optimum results.

A vibration-isolated, ergonomic, tiltable guide bar makes lighter work of operating each machine, while single-point lift and simple tie-down points speed things up so you're not wasting time on non value-added work.

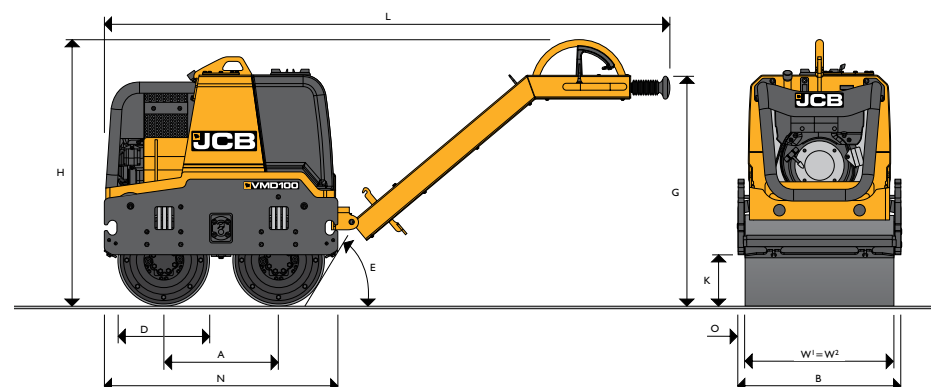
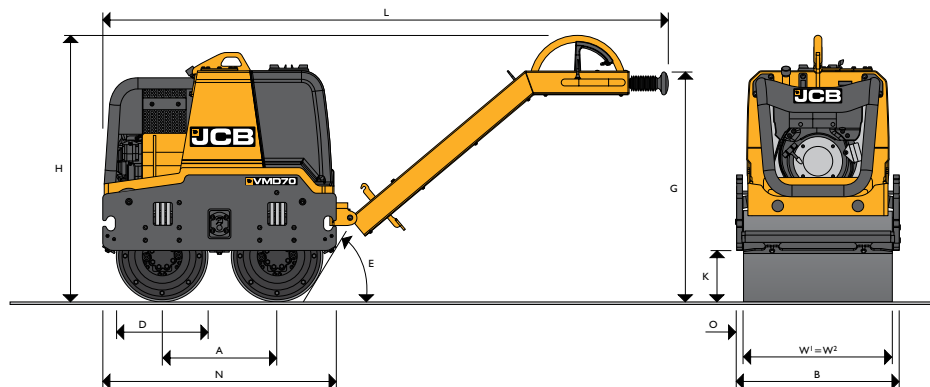
Meanwhile, safety is as paramount as ever, and the rollers' low noise levels are easier on operator and environment alike. Their improved crush-zone cut-out switch is easily accessible on the end of the control arm and needs to be manually reset if activated, making a real difference to site safety.

Finally, the VMD70 and VMD100 offer all the reliability you expect from JCB, with a simplified design that keeps maintenance costs down. We've also improved access to the components you need to check and service, making life easier and helping you stay up and running.





VMD70: DRUM WIDTH: 650mm (25.6in) OPERATING WEIGHT (CE): 740kg (1632lb) VMD100: DRUM WIDTH: 750mm (29.5in) OPERATING WEIGHT (CE): 920kg (2029lb)


**STATIC DIMENSIONS**

Dimensions in millimetres mm (in)		VMD70	VMD100
A	Wheelbase	500 (19.67)	
B	Overall width	710 (27.94)	840 (33.06)
D	Drum diameter	400 (15.74)	
G	Height of guide bar	1171 (46.10)	
H	Height to top of machine	1090 (42.90)	
K	Curb clearance	225 (8.85)	
L	Total travel length	2456 (96.70)	
N	Length of frame	1005 (39.60)	
O	Overhang	30 (1.18)	45 (1.77)
	Drum depth	10 (0.39)	
W <sub>1</sub> = W <sub>2</sub>	Roller width	650 (25.6)	750 (29.51)
Ei	Departure angle	58°	

**OPERATING DATA**

		VMD70	VMD100
Operating weight (CECE)	kg (lb)	740 (1632)	920 (2029)
Operating axle load front/rear	kg (lb)	370 (815)	460 (1013)
Operating linear load front/rear	kg/cm (lb/in)	5.7 (12.5)	6.7 (13.5)
Exciter frequency	Hz (vpm)	60 (3600)	
Nominal amplitude	mm (in)	0.49 (0.020)	0.51 (0.021)
Centrifugal force	kN (lbf)	21.90 (4923)	27.10 (6092)
Centrifugal force / drum width	N/cm (lbf/in)	168.5 (96.30)	143.3 (81.9)
Travel speed forward / reverse	km/h (mph)	0 – 4/0 – 2.5 (0 – 2.5/0 – 1.55)	
Compaction depth up to	cm (in)	40 (15.7)	45 (17.3)
Compaction area (at 2 km/h)	m <sup>2</sup> /h (yd <sup>2</sup> /h)	1200 (1003)	
Gradeability up to	degrees (%)	21.8 (40)	
Tipping angle side	degrees (%)	30 (57)	

**SERVICE CAPACITIES**

		VMD70	VMD100
Fuel	litres (US gal)	5 (1.32)	
Engine oil (engine)	litres (US gal)	0.7/1.5 (0.74/1.59)	
Engine oil (exciter)	litres (US gal)	0.15 (0.04)	0.20 (0.05)
Hydraulic oil	litres (US gal)	34 (8.98)	
Sprinkler water	litres (US gal)	70 (18.48)	

**ENGINE**

Single-cylinder, air-cooled, four-stroke diesel engine.

Make	HATZ
Model	1B40
Piston displacement	cm <sup>3</sup> (in <sup>3</sup> )
Performance – DIN 6271	kW (hp)
Operating speed	rpm
Starting device	Recoil start Option: electric starter
Air cleaner	Dry air cleaner, "air filter blocked" indicator as standard
Fuel filter	Cartridge, 2 filters

### PROPULSION

Infinitely variable direct hydrostatic drive via drum motor on both drums.

### EXCITER DRIVE

Hydrostatic drive.

### EXCITER

Centrally mounted maintenance free single shaft circular exciter in the drum frame.

### BRAKING SYSTEM

**Service brake:** Hydrostatic propulsion system.

**Parking brake:** Mechanical.

### ELECTRICAL SYSTEM

Voltage	V	12
Battery capacity	Ah	45
Alternator	A	14V – 14A

### STANDARD EQUIPMENT

**Comfort & ease of use:** vibration absorbing and ergonomic tiltable guide bar with dead man brake & recoil damper, low noise level, optimized weight distribution, comfortable pedal to unlock guide bar, large water tank filler cap for ease of cleaning, gravity fed water sprinkler system, engine protective frame with central lifting eye, heavy duty exciter bearings, 2 steel scrapers each drum. VMD70 as well as VMD100 comply to HAV and HBV regulations by CE.

**Performance:** high exciter frequency for fast rolling speeds, optimized static weight and amplitude set-up.

**Efficiency:** high curb clearance, large water tank volume to reduce refilling cost and downtime. Multigrade hydraulic oil HLP46.

### OPTIONAL EQUIPMENT

**Indicators and switches:** Electric switch; oil drain kit; hour meter; tool kit; battery charging current; ignition switch buzzer.

### ASPHALT COMPACTION OUTPUT (t/h)\*

Structure	Wearing course	Binder course	Base course
Compacted layer thickness up to (mm)	20...50	50...100	100...150
VMD70 (t/h)	10...25	21...42	36...53
VMD100 (t/h)	12...29	25...49	42...63



### ASPHALT COMPACTION OUTPUT (m³/h)\*

Structure	Wearing course	Binder course	Base course
Compacted layer thickness up to (mm)	20...50	50...100	100...150
VMD70 (m³/h)	297	248	212
VMD100 (m³/h)	351	293	251



### ASPHALT COMPACTION OUTPUT (m³/h)\*

Structure	Wearing course	Binder course	Base course
Compacted layer thickness up to (mm)	20...50	50...100	100...150
VMD70 (m³/h)	4...11	9...19	16...24
VMD100 (m³/h)	5...13	11...22	19...28



### SOIL COMPACTION OUTPUT (m³/h)\*

Structure	Sand/gravel	Mixed soil	Clay/loam
Compacted layer thickness up to (mm)	200	180	100
VMD70 (m³/h)	26...51	23...47	13...26
VMD100 (m³/h)	31...61	28...55	15...31



\*Assumption and notes: Overlap of paths: 100mm. Working speed: 42 m/min (= 2.52 km/h). Compaction output speed: 75% of working speed (= 1.89 km). Compaction output: assumes 80% of maximum layer thickness stated in upper table. Number of passes are 3...6 (soil) and 3...7 (asphalt).



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**Double Drum Roller VMD70/VMD100**

411/417 – Operating weight: 8,688kg / 9,425kg Gross rated power: 81kW (108hp) / 93kW (125hp)  
 Full turn tipping load: 5,451kg / 6,042kg Standard shovel capacity: 1.4m<sup>3</sup> / 1.6m<sup>3</sup>

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