



STATIC DIMENSIONS

Dimensions in millimetres		VM75	VM115	VM132	VM166	VM200
A	Wheelbase	2514	2846	2996	2996	3076
B	Overall width	1870	2250	2270	2270	2270
C	Axle to rear face	1470	1523	1651	1651	1660
D1	Wheel diameter	1298	1520	1520	1520	1520
D2	Drum diameter (smooth drum)	1220	1500	1500	1500	1600
D3	Inner diameter padfoot drum	1140	1400	1400	1400	1400
D4	Outer diameter padfoot drum	1300	1600	1600	1600	1600
H	Total travel clearance	2845	2935	2935	2935	2985
H1	Height to top of seat	2070	2185	2160	2160	2245
K	Ground clearance	389	447	447	447	497
L	Total travel length	4887	5444	5722	5722	5996
O	Overhang	60	75	85	85	85
S	Drum thickness	25	25	25	25	40
W	Drum width	1750	2100	2100	2100	2100
E1	Front departure angle	40°	41°	41°	36°	35°
E2	Rear departure angle	28°	32°	29°	29°	29°

OPERATING DATA

	VM175D		VM175PD		VM115D		VM115PD		VM115HD		VM115HPD	
Operating weight	kg		7660		7320		11090		11380		11720	
Operating axle load front / rear	kg		3590 / 4070		3650 / 3670		5580 / 5510		6215 / 5165		6285 / 5435	
Operating linear load front	kg/cm		20.5				26.6				29.9	
Vibration stage	1	2	1	2	1	2	1	2	1	2	1	2
Exciter frequency	Hz		29 36		29 36		31 36		31 36		31 36	
Nominal amplitude	mm		2 0.8		2 0.8		1.95 0.9		1.95 0.9		1.95 0.9	
Centrifugal force	kN		138 84		156 96		261 163		282 176		261 163	
Centrifugal force / drum width	N/cm		789 480		891 549		1243 776		1343 838		1243 838	
Compaction depth up to	cm		62 50		75 60		90 70		100 80		90 80	
Working speed (forward/reverse) max.	km/h		6.9		6.9		4.5		4.5		4.5	
Travel speed (forward/reverse) max.	km/h		11		11		10.5		10.5		10.5 / 12.5	
Steering lock angle	degrees		±28		±28		±35		±35		±35	
Vertical oscillation	degrees		±15		±15		±15		±15		±15	
Inner turning radius	m		2.97		2.97		3.4		3.4		3.4	
Tyres	14.9 - 24 / 6PRAWT		14.9 - 24 Dyna Torque II		23.1 - 26 / 8 PRAWT		23.1 - 26 / 12 Tractor Tyre Tread		23.1 - 26 / 8 PR AWT		23.1 - 26 / 8 PR Dyna Torque II	
Number of padfeet			100				132				132	
Height of padfoot	mm				80				100			
Gradeability up to	degrees (%)		31 (60)		33 (65)		31 (60)		33 (65)		31 (60)	

OPERATING DATA

	VM132D		VM132PD		VM166D		VM166PD		VM200D		VM200PD	
Operating weight	kg		11850		12710		15520		16060		18530	
Operating axle load front / rear	kg		6460 / 5390		7380 / 5330		9630 / 5890		10130 / 5930		11400 / 7130	
Operating linear load front	kg/cm		30.8				45.9				54.3	
Vibration stage	1	2	1	2	1	2	1	2	1	2	1	2
Exciter frequency	Hz		29 36		29 36		29 35		29 35		29 35	
Nominal amplitude	mm		2 0.8		2 0.8		1.8 0.8		1.8 0.8		2 0.75	
Centrifugal force	kN		282 174		305 188		301 195		321 208		370 205	
Centrifugal force / drum width	N/cm		1343 829		1452 895		1433 929		1529 990		1762 976	
Compaction depth up to	cm		100 80		110 90		130 100		140 110		145 100	
Working speed (forward/reverse) max.	km/h		7.7		7.7		7.3		7.3		7.6	
Travel speed (forward/reverse) max.	km/h		12.7		12.7		11.4		11.4		11.8	
Steering lock angle	degrees		±35		±35		±35		±35		±35	
Vertical oscillation	degrees		±15		±15		±15		±15		±15	
Inner turning radius	m		3.6		3.6		3.6		3.6		3.6	
Tyres	23.1 - 26 / 8 PR AWT		23.1 - 26 / 12 Tractor Tread		23.1 - 26 / 8 PR AWT		23.1 - 26 / 8 PR Dyna Torque II		23.1 - 26 / 8 PR AWT		23.1 - 26 / 8 PR Dyna Torque II	
Number of padfeet			132				132				132	
Height of padfoot	mm				100				100			
Gradeability up to	degrees (%)		31 (60)		33 (65)		32 (62)		33 (65)		24 (45)	

ENGINE

Four/six-cylinder, water-cooled, turbo-charged diesel engine.

Model	VM75		VM115		VM132		VM166		VM200	
	Tier 3		Tier 2	Tier 3	Tier 2	Tier 3	Tier 2	Tier 3	Tier 2	Tier 3
Make	JCB		JCB	JCB	Cummins	JCB	Cummins	Cummins	Cummins	Cummins
Model	444		444	444TCA	B 5.9 - 150C	444TCA	B 5.9 - 173C	QSB6.7	B 5.9 - 150C	QSB6.7
Piston displacement	cm ³	4399	4399	4399	5880	4399	5880	6699	5880	6699
Performance – DIN 6271	kW (hp)	63 (84)	93 (125)	97 (130)	112 (150)	108 (145)	129 (173)		129 (173)	
Operating speed	min ⁻¹ (rpm)	2200 (2200)		2200 (2200)		2200 (2200)		2200 (2200)		2200 (2200)
Starting device		Electric motor		Electric motor		Electric motor		Electric motor		Electric motor
Air cleaner		Dry cartridge with safety cartridge		Dry cartridge with safety cartridge		Dry cartridge with safety cartridge		Dry cartridge with safety cartridge		Dry cartridge with safety cartridge
Fuel filter		Cartridge		Cartridge		Cartridge		Cartridge		Cartridge

SERVICE CAPACITIES

Model		VM75	VM115/VM115H	VM132	VM166	VM200
Fuel	litres	230	300	400	400	320
Engine oil (engine)	litres	8	14	14.2	14.5	14.5
Gear oil (exciter)	litres	3	3.5	12	12	12
Hydraulic oil	litres	80	80	80	80	80
Coolant	litres	14	14	19	19	19

PROPULSION

Infinitely variable hydrostatic direct drive by variable displacement motor on rear axle and drum, Multidisc self-locking differential (NoSPIN).

EXCITER DRIVE

Electrically controlled hydrostatic direct drive on drum.

EXCITER

Single-shaft circular exciter with overturning weights.

STEERING SYSTEM

Servo assisted center articulation with vertical oscillation.

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	143
Alternator	A	max. 95

INDICATORS AND SWITCHES

Hour meter, fuel, engine temperature, engine oil pressure, battery charging current, hydraulic oil and air filter condition, parking brake, neutral position control lever, speed range selection, frequency, AVC (Automatic Vibration Control), acoustic back-up alarm. Optional lighting, turn signal, hazard-warning lights.

OPTIONS

High comfort ROPS/FOPS certified cabin, ROPS frame, working lights, road traffic lights, yellow rotating beacon, adapter for turning seat, several homologation kits, padfoot shell kits (3 segments) with scraper, polyurethane scrapers, levelling blades, tachograph, tractor and diamond pattern tread spare wheels, tool bags, COMPATRONIC, COMPATRONIC TP, COMPATRONIC PRO, COMPATRONIC PRO, COMPATRONIC GPS, anti-vandalism cover for dashboard, heating, aircondition, FOPS roof for ROPS frame, canopy, air precleaner.