







When it comes to high-performance precision compaction, it has to be JCB Compaction

SMOOTHLY DOES IT



In recent years, JCB has proudly taken Compaction to new levels, thanks to our world-class manufacturing, engineering excellence and reputation for providing the best back-up in the business. Our latest generation of outstanding single-drum soil compactors has been carefully developed with intensive market research and leads its class in terms of quality, reliability, comfort and – most importantly – productivity. Discover how this outstanding range will make smooth work of even the toughest challenges.

Powerful, productive and incredibly reliable

The smart money's on JCB Compaction



We want everyone to benefit from JCB's superior machine quality, which is why we've made each one more affordable than ever. So, as well as ensuring stringently lean manufacturing processes that keep our costs down, we are able to offer affordable finance to businesses large and small. With flexible payment options, competitive interest rates, value-for-money insurance and impressive warranty and service packages, you'll be hard pressed to find better deals with anyone else.

Productive

JCB Compaction rollers roll quickly, powerfully and accurately, giving you complete control and maintaining unbeatable productivity levels. And because they're built to last, you'll find them more reliable, which means lower maintenance costs and reduced downtime.

Economical

Each sophisticated component within your single-drum roller is built to perform and ultimately cost you less. Take the single-piece excentric shaft. It's cleverly designed to produce optimum performance while reducing maintenance to a minimum. This keeps the lifetime costs of your machine incredibly low while guaranteeing maximum durability.











Best-in-class performance

For more compacted material in less time

JCB Compaction rollers are sophisticated and versatile, ready for any challenge that lies ahead. With best-in-class compaction, all models feature two frequencies and amplitudes to match a wide range of soil conditions and meeting natural soil frequencies.

Whether you're working on a motorway, runway or other construction project, the single-drum compactor provides a superior compaction output. A key component here is the unique single-piece excentric shaft with overturning weights. It's coupled with our Automatic Vibration Control system, which avoids stationary vibration to eliminate over-compaction when changing direction.

Where other machines fail, the single-drum roller keeps going. All models produce superb gradability thanks to precise weight distribution between front and rear, a built-in switchable anti-slip system (SASS), heavy-duty no-spin axles and our renowned DIESELMAX engines with high-torque hydraulic components.









Thoughtful design, quality components

Where engineering expertise meets impressive reliability

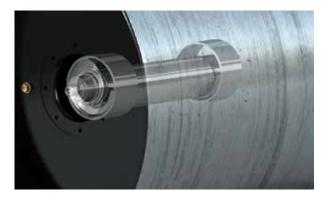
Manufactured with extensive customer input, everything about our single-drum soil compactors has been designed for quality, durability and reliability, with each world-class part rigorously tested.

Our record-breaking, water-cooled DIESELMAX engine sits at the heart of most models machine (not on VM166 and VM200), offering tremendous power with minimum emissions. Meanwhile, the superior chassis balances weight and, along with the super strong axels, is specially built for heavy-duty construction projects. In fact, the entire frame is intelligently designed with front-to-back oscillation for extra stability, a flush finish for confined environments and over-dimensioned components for extra durability and reduced repair costs.

From the maintenance-free, lifetime-lubricated articulation joint to the sophisticated traction control system with its excellent gradability, you'll find expert engineering and superb attention to detail throughout our entire range of single-drum soil compactors.

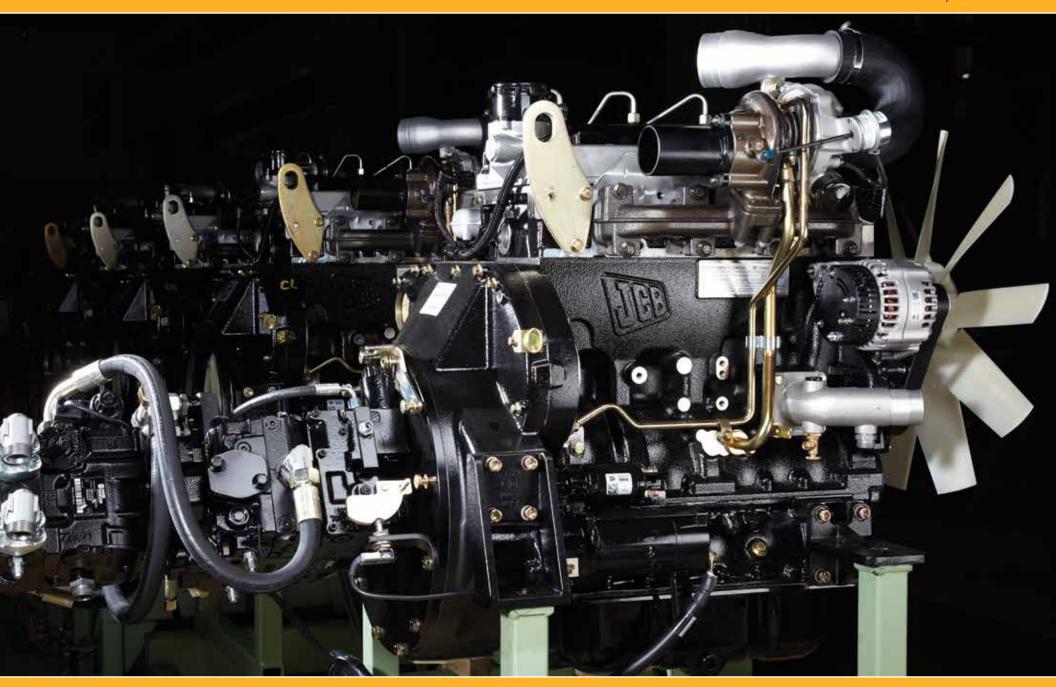
Finally, each model that rolls off our production lines is really put through its paces, with uncompromising two-hour hot test runs. This ensures whichever model you buy, it's in top working order and ready to roll.











Keeping you up and running

Maximum reliability means minimum maintenance

Thanks to the way our single-drum soil compactors are intelligently designed and manufactured by world-class engineers, each model has low maintenance demands and is incredibly easy to service.

The most important part of any roller, of course, is the drum. More sophisticated than you might initially think, the drum features pre-loaded rubber buffers which ensure it always has the correct load. In turn, this significantly lengthens the rubber buffer's life and protects the hydraulic motors against axial pressures. All models also feature heavy-duty, maintenance-free center joints – again designed to reduce downtime and servicing costs.

When the time does come for a service, you'll find all the components accessible and the whole process quick and easy, so your machine can be back to business quickly. The compactors feature an easy-to-get-at centralized service station for their hydraulic systems, towing pumps and hydraulically lifted engine hoods (VM132 to VM200 models). All machines feature high volume tanks to reduce refilling time and cost, having both, fuel and hydraulic tanks – well protected – under the engine hood.









Comfort is key

Safe, ergonomic and so easy to operate

For your operators to stay sharp and productive, they need to work in an environment where they feel completely comfortable and at ease.

That's why JCB has taken considerable care to get the cab and operating systems just right. Driver stands and cabins are easily accessible from both sides of the machine and once you step inside, the first thing you notice is the spacious and intuitively designed interior.

There's plenty of storage space for tools, while large windows give you 360° vision for an excellent drum-edge view and outstanding on-site safety. The controls are precise and easy to use, with an ergonomic driving lever for exact speeds and accurate changes of direction. It all adds up to a totally comfortable space that's brilliantly simple and allows an operator to feel at one with his machine.



















Introducing COMPATRONIC

For an unbeatable, smooth finish, time after time

One of the biggest problems with standard compaction equipment is over compaction, which leads to inconsistent compaction and uneven grounds. In the worst case scenario, the previously achieved compaction is destroyed resulting in cracks in buildings or pot holes in roads. Additionally, over compaction means more passes, a more time-consuming job, damage on the machine and more fuel wasted, costing you more money. JCB Compaction technology eliminates these issues by offering Compatronic, an advanced compaction measurement system, for all its single-drum rollers. There are four options to choose from:

This is how it works:

The accelerating sensor, mounted on the drum, is the heart of all COMPATRONIC Systems. It measures the movements of the drum while compacting and transmits these data to a microprocessor which processes the data. The loss free data transfer from sensor to the processor is key to show exact data. Therefore JCB put together sensor and processor in one compact, solid housing.

The calculated compaction can now easily (loss-free as well) be transmitted to the display on the operator stand of the cabin.



COMPATRONIC

Our entry-level system indicates precise vibrator frequency, jump operation and relative compaction values. The system measures the density of the material and once the highest possible density for that particular material is reached, it indicates clearly that the job is done by warning the operator by visual LEDs.









COMPATRONIC TP

This advanced version of Compatronic gives you more detailed compaction reporting and more indications such as relative compaction value, vibrator frequency, jump operation, amplitude, requested compaction value, machine speed, the current position of the roller and how each compaction compares to the previous pass. The system also gives you the option to print your records.

COMPATRONIC Pro

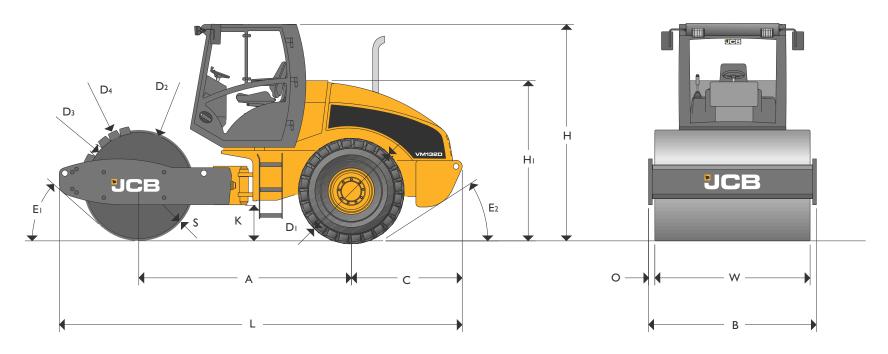
Offering you complete dynamic control, Compatronic Pro has all the features of Compatronic TP, but with added in-depth reporting. Not only does it give you details for each pass, it also gives you an overview of the compaction process for the total area you need to cover. Compatronic Pro allows you to store detailed information for 99 areas, 18 tracks per area and eight passes per track. The system comes with a printer and the latest software for your office PC.

COMPATRONIC GPS

The newest addition to our popular range of compaction measurement systems gives you all the benefits of our Pro version but with the added advantage of a refined, scratch-proof, anti-glare display system and GPS technology. The system provides georeferenced compaction data (in easy-to-understand red-yellow-green) that can be displayed simultaneously on the in-cab display and on the site manager's PC for instantaneous live reporting.







STATIC DIMENSIONS								
Dimensions in inches	VM75	VM115	VMI32	VM166	VM200			
A Wheelbase	99	112	117.9	117.9	121.1			
B Overall width	73.6	88.5	89.4	89.4	89.4			
C Axle to rear face	57.9	60	65	65	65.3			
Dı Wheel diameter	51.1	59.8	59.8	59.8	59.8			
D2 Drum diameter (smooth drum)	48	59.1	59.1	59.1	63			
D3 Inner diameter padfoot drum	44.8	55.1	55.1	55.1	55.1			
D4 Outer diameter padfoot drum	51.2	63	63	63	63			
H Total travel clearance	112	115.6	115.6	115.6	117.5			
Hı Height to top of seat	81.4	86	85	85	88.3			
K Ground clearance	15	17.6	17.6	17.6	19.6			
L Total travel length	192.4	214.3	225.2	225.2	236.1			
O Overhang	2.4	3	3.3	3.3	3.3			
S Drum thickness	I	I	I	I	I			
W Drum width	68.9	82.7	82.7	82.7	82.7			
Eı Front departure angle	40°	41°	41°	36°	35°			
Rear departure angle	28°	32°	29°	29°	29°			



					OPE	RATING DA	TA						
		VM	75D	VM7	75PD	VM	115D	VMI	I5PD	VMI	I5HD	VMII	5HPD
Operating weight	lb	76	660	73	20	1.1	090	11	380	11	720	115	770
Operating axle load front / rear	lb	3590	/ 4070	3650	/ 3670	5580 / 5510		6215	/5165	6285	/ 5435		
Operating linear load front	lb/in	20	0.5		-	2.0	6.6				9.9		
Vibration stage			2	I	2	I	2	I	2	I	2		2
Exciter frequency	vpm	1740	2160	1740	2160	1860	2160	1860	2160	1860	2160	1860	2160
Nominal amplitude	in	.08	.03	.08	.03	.08	.04	.08	.04	.08	.04	.08	.04
Centrifugal force	lbf	31024	18884	35070	21582	58675	36664	63396	39566	58675	36664	63396	39566
Centrifugal force / drum width	ft/lb	582	354	657	405	917	572	991	618	917	572	991	618
Compaction depth up to	in	24	20	30	24	35	28	39	32	35	28	39	32
Working speed (forward/reverse) max.	mph	4.	29	4.	29	2	1.8	2	1.8	2	8	2.	.8
Travel speed (forward/reverse) max.	mph	6.	84	6.	84	6.	.52	6	.52	6.52	./7.77	6.52,	7.77
Steering lock angle	degrees	±	28	±	28	±	:35	±	:35	±	:35	±	35
Vertical oscillation	degrees	±	15	±	15	±	:15	±	:15	+	:15	±	15
Inner turning radius	in	- 1	17	I	17	I.	34	1	34	L	34	13	34
Tires		14.9 - 24	/ 6PR AWT	14.9 - 24 Dy	yna Torque II	23.1 - 26 /	/ 8 PR AWT	23.1 - 26 / 12 T	ractor Tire Tread	23.1 - 26 /	/ 8 PR AWT	23.1 - 26 / 8 PR	Dyna Torque II
Number of padfeet				10	00				32			13	32
Height of padfoot	in			3	.1			3	3.9			3.	.9
Gradeability up to	legrees (%)	31	(60)	33	(65)	31	(60)	33	(65)	31	(60)	33 ((65)

200PD
)499
7/16182
2
2100
.03
46086
720
43
.72
'.33
±35
±15
42
R Dyna Torque II
132
3.9
(45)
3



ENGINE

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

Model		VM75	VM	1115	VM	132	VM	166	VM	200
		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	in ³	268	268	268	359	268	359	409	359	409
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	Electri	c motor	Electric	motor	Electric	motor	Electric	motor
Air cleaner		Dry cartridge with safety cartridge	1	ridge with cartridge	/	ridge with cartridge		ridge with cartridge		idge with artridge
Fuel filter		Cartridge	Cart	tridge	Cart	ridge	Cart	ridge	Cart	ridge

SERVICE CAPACITIES

Model		VM75	VMII5/VMII5H	VM132	VM166	VM200
Fuel	gallons	61	79.2	105.7	105.7	84.5
Engine oil (engine)	gallons	2.1	3.7	3.8	3.8	3.8
Gear oil (exciter)	gallons	0.79	0.92	3.2	3.2	3.2
Hydraulic oil	gallons	21.1	21.1	21.1	21.1	21.1
Coolant	gallons	3.7	3.7	5	5	5

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	А	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, plyurethane 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.

.73 - 1.5



COMPACTED LAYER THICKNESS UP TO... (in)

Machine	Weight (lbs)	Rock	Sand / Gravel	Mixed soil	Clay / Loam
VM75D	16887*	_	20	16	5.9
VM115D	24449*	35	23	20	7.9
VMI32D	26125*	39	28	23	9.8
VMI66D	34216*	51	39	28	13.8
VM200D	40852*	57	47	31	15.7

COMPACTED OUTPUT (in³/min)								
Machine	Weight (lbs)	Rock	Sand / Gravel	Mixed soil	Clay / Loam			
VM75D	16887*	_	.2147	.1632	.0612			
VM115D	24449*	.4590	.2959	.2549	.1020			
VM132D	26125*	.50 - 1	.3469	.2959	.1325			
VM166D	34216*	.65 - 1.3	.50 - I	.3571	.1835			

.40 - .80

.20 - .40





VM200D

40852*

Sand / Gravel





Mixed Soil Clay / Loam

Assumption and Notes:

Rock

The achieved compaction and productivity values will vary with exact material composition and moisture content. In critical applications these values should always be verified by physical measurement.

Laboratory soil test should always be carried out to assess the soil structure & strength for compaction.

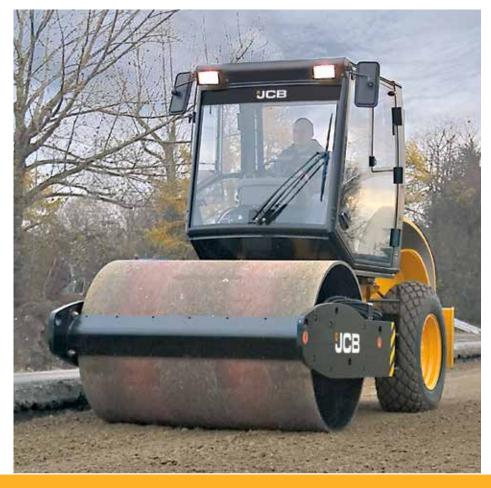
Weights- CECE with ROPS[†] or Cab*

Working Width: 82.7 in with 7.9 in overlap of paths

Working speed: 2362 in/min (= 1.9 mph)

Compaction Output speed: 75 % of working speed = 1.4 mph
Compaction Output: assumes 80% of maximum layer thickness stated in upper table

Compaction Output: Number of passes are 4....8







COMPACTED LAYER THICKNESS UP TO (in)							
Machine	Weight (lbs)	Rock	Sand / Gravel	Mixed soil	Clay / Loam		
VM75PD	16138*	_	20	16	7.9		
VM115PD	25089*	35	23	20	9.8		
VMI32PD	28021*	39	28	23	11.8		
VM166PD	35406*	51	39	28	15.7		
VM200PD	40499*	57	47	31	17.7		

COMPACTED OUTPUT (in³/min)								
Machine	Weight (lbs)	Rock	Sand / Gravel	Mixed soil	Clay / Loam			
VM75PD	16138*	_	.2147	.1632	.0816			
VM115PD	25089*	.4590	.2959	.2549	.1325			
VM132PD	28021*	.50 - 1	.3469	.2959	.1530			
VM166PD	35406*	.65 - 1.3	.50 - 1	.3571	.2040			
VM200PD	40499*	.73 - 1.5	.60 - 1.2	.4080	.2345			







Rock







Mixed Soil Clay / Loam

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Compaction Output: Number of passes are 4....8





ROPS plus FOPS roof.



Leveling blade.



Quick and easy fitting of padfoot shell segments (3 segments). Kit comes with scrapers.



Anti-vandalism cover for dashboard.









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.

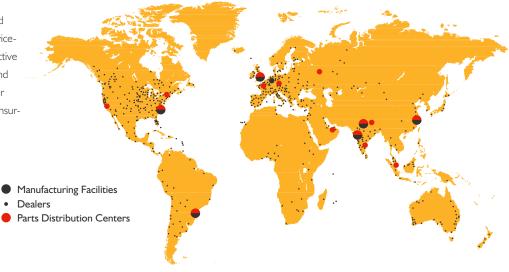


- 1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.
- The global network of JCB Parts Centers is another model of efficiency; with 15 regional bases, we can 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 labor rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.







ONE COMPANY, OVER 300 MACHINES.

Single Drum Soil Compactor

Your nearest JCB Dealer

JCB North American – Headquarters

Savannah. 2000 Bamford Blvd., Savannah, Georgia, 31322 Tel: (912) 447-2000 Download the very latest information on this product range at www.jcb.com

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