

NEW JCB 116



MORE COMPACTION PER PASS

Operating weight : 11,250kg | Engine power: 100hp | Drum width: 2,100mm



MORE PRODUCTIVE

THE JCB116 IS DESIGNED TO GIVE YOU ULTIMATE PRODUCTIVITY. EQUIPPED WITH PROVEN GERMAN VIBRATION TECHNOLOGY, JCB116 GUARANTEES DESIRED COMPACTION DENSITY IN A MINIMUM NUMBER OF PASSES.

Complete compaction.

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

2 JCB116 comes with a 28 mm thick solid drum, with a 10 mm stiffening ring to make it 38 mm from outside the higher centrifugal force of 256 Kn, static linear load of 30.24 Kg / Sqcm, high amplitude of 1.8 mm leads to better compaction.

3 JCB provides a single piece solid steel eccentric shaft, providing standard dual amplitude and dual frequencies.

4 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.

The heavy side front frame gives stability to the vibrating mass during compaction.



1



2



3



4

MORE FUEL EFFICIENT

Built for efficiency.

1 The BS-III compliant JCB Diesel MAX engine is equipped with a variable fan as standard, providing you with fuel savings of up to 6%*.

- State-of-the-art JCB Diesel MAX engine
- Robust
- Fuel efficient
- In-house JCB service support

2 The JCB Diesel MAX engine delivers a massive 430Nm of torque, at low engine speeds for optimum responsiveness, for fuel-efficient matching of transmission and hydraulics.

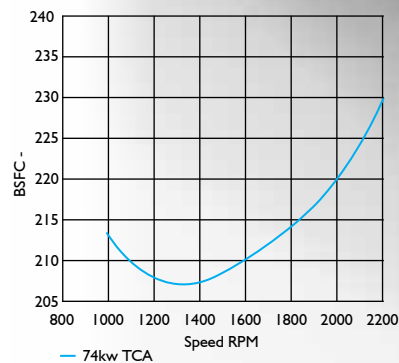
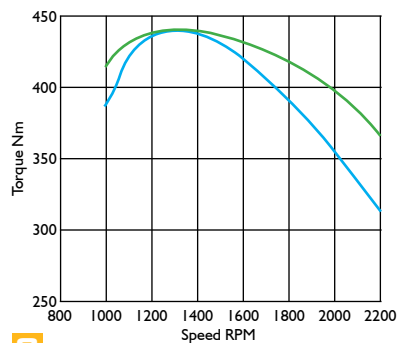
3 Provides unmatched fuel consumption in its class of machines.

JCB DIESEL MAX

1



2



3 — 74kw TCA — 85kw TCA

— 74kw TCA

*T&C Apply.

MORE RELIABLE AND DURABLE

SOIL COMPACTORS HAVE TOUGH LIVES, WHICH IS WHY WE'VE DESIGNED AND BUILT THE JCB116 TO BE AS ROBUST AS IT CAN BE. PRODUCTIVITY AND UPTIME ARE MAXIMISED ACCORDINGLY.

Quality at its best.

- 1 JCB 116 is built with highly reliable and latest hydraulics components from Germany.
- 2 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.
- 3 JCB uses advanced manufacturing and assembly processes to ensure maximum precision and quality components.
- 4 The lifetime lubricated central joint makes JCB 116 more durable.
- 5 The bearings have unique metal face seals to avoid contamination which improves the life of a bearing.



Designed for reliability.

- 6 JCB manufactures axles in-house which ensures reliability as well as easy availability of critical components in case of failure.
- 7 The frame of the JCB 116 is designed using finite element analysis, and it's fully strain gauged. It has also been tried and tested across various applications and environments.
- 8 To prove our JCB Diesel MAX engines' durability, we've done 1,10,000 hours of testing in 70 different machines across the toughest applications and environments.
- 9 Proven Vibromax compaction technology and German hydraulics.



BEST-IN-CLASS OPERATOR COMFORT

Designed for ease of use.

- 1 For best-in-class operator comfort JCB 116 has intuitive, easy-to-use and ergonomic controls, all laid out in industry standards.
- 2 First in the industry to offer an IN-BUILT compaction meter, placed ergonomically for comfort.
- 3 Ergonomically designed steering wheel and console offer fatigue-free operation.

Comfort on the move.

- 4 The cab platform is mounted on 4 viscous mounts, to isolate it from any vibrations and to make the operator feel comfortable even during high amplitude passes.



BUILDING STRONGER ROADS

Introducing **Intelli Compaction*** by JCB, a unique Compaction Management System that removes the guesswork and takes your productivity to a whole new level. An in-built feature in JCB I16, it lets you know the exact number of passes needed for correct compaction through a real-time onboard display of surface condition data. Get ready to achieve perfection and precision. Precision that enables you to make better and stronger roads.



- Integrated with LiveLink
- Over compaction alerts improve machine's life
- Better process control
- Saves time and fuel



Productivity:



Optimizes no. of passes & eliminates guess work



Compaction pattern analysis



Weather information

Process:



Real-time compaction productivity information



24x7 connectivity through livelink



Printed daily & weekly performance report



Data analytics & site management

Profit:



Reduces cycle time & overall cost



Prevents penalties and extra work



Over compaction alerts



*This is an optional feature.

EASE OF SERVICING

WE UNDERSTAND THAT A SOIL COMPACTOR IS ONLY PROVIDING ULTIMATE PRODUCTIVITY AS LONG AS IT'S WORKING ON-SITE FOR YOU. THAT'S WHY WE'VE DESIGNED THE JCB116 TO OFFER MAXIMUM UPTIME WITH SIMPLE, MINIMISED SERVICING.

Routine maintenance.

1 JCB116 is designed for ease of servicing. All the daily checks can be done from ground level on one side.

2 A wide opening rear bonnet gives fast access to the engine compartment.

3 Assured parts supply : JCB India has built a robust logistics and supply chain management across the country that facilitates the provision of parts for all machines in the shortest time.

Ease of servicing

- 100% access to all hydraulic and engine components.
- Lockable diesel inlet to prevent vandalism.
- Waterproof control panel (IP 67/69).
- Towing pump, as an option.
- Auto dust removal feature.



1



CARE



JCB PREMIER LINE SOLUTIONS ARE A SET OF NEW AND INNOVATIVE SOLUTIONS DESIGNED TO GIVE MAXIMUM VALUE TO JCB'S PRIVILEGED CUSTOMERS. IT IS A COMPREHENSIVE RANGE OF CUSTOMISED SUPPORT PACKAGES, INNOVATIVELY DESIGNED TO OFFER REAL TIME AND PROACTIVE PRODUCT SUPPORT SOLUTIONS. THESE ARE EXCLUSIVE OFFERINGS AND ARE AVAILABLE TO ONLY A PRIVILEGED FEW.

At the heart of JCB Premier Line are:-

1. Machine uptime.
2. Parts availability at the site.
3. Product support - It offers on-site product support through the placement of site engineers to the customers who have a fleet of these machines*.
4. Road service consultant.



*T&C Apply

EXTENDED CARE

GIVE YOUR MACHINE EXTENDED WARRANTY AND CARE.

- JCB Careplus is an extended warranty programme that comes into effect after the machine standard warranty expires.
- JCB Careplus can be purchased within the 1st year from the sale of the machine.
- The programme offers you peace of mind and saves your maintenance cost even after your machine standard warranty expires.



Extended
Warranty
Programme



BENEFITS OF JCB CAREPLUS



No limits on number of claims



Preventive maintenance service*



Nationwide coverage*



JCB skilled manpower support



Maximum productivity



Maximum uptime



Maximum performance



Breakdown cost protection



Better resale value

*T&C Apply.

JCB LiveLink - Stay connected 24x7



Now be assured of your JCB Compactor JCB I16 service, operation and security with the advanced telematics system called LiveLink.

SERVICE



LiveLink will notify you about the service requirement of your machine. It increases the efficiency of your machine and keeps it in perfect working condition.

Service reminder



Reminds you when the service of your machine is due; the reminder helps you plan your work better.

Machine data backup



Helps to maintain the records of past services in an organised manner.

Critical machine health alerts



Lets you know the inside of your machine from a faraway location. Helps in taking proactive measures to avoid breakdown through alerts like:

- Low engine oil pressure
- Water in fuel
- Low fuel level

OPERATION



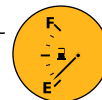
LiveLink helps you maintain your machines' health and manage your fleet better by alerting you of any variation in health indicators. It lets you know in real time if your machine is facing a problem or needs any quick check-up.

Machine utilisation report



Maintains machine's usage record and helps you analyse & optimise utilisation of the machine.

Fuel level information

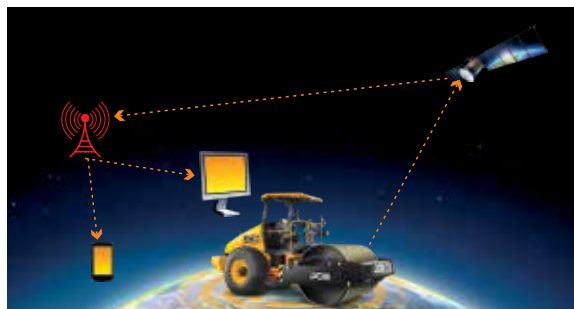


It also reports any sudden fuel level decrease.

Engine status



Informs you if your JCB machine's engine is switched on or off.



SECURITY



LiveLink helps you to keep a track of your machine's location, protection and movement.

GPS tracking



Tells you the exact position of your machine on a map.

Operating hours



Lets you control the number of hours for which your machine will work.

Possible intrusion / Tow away alerts



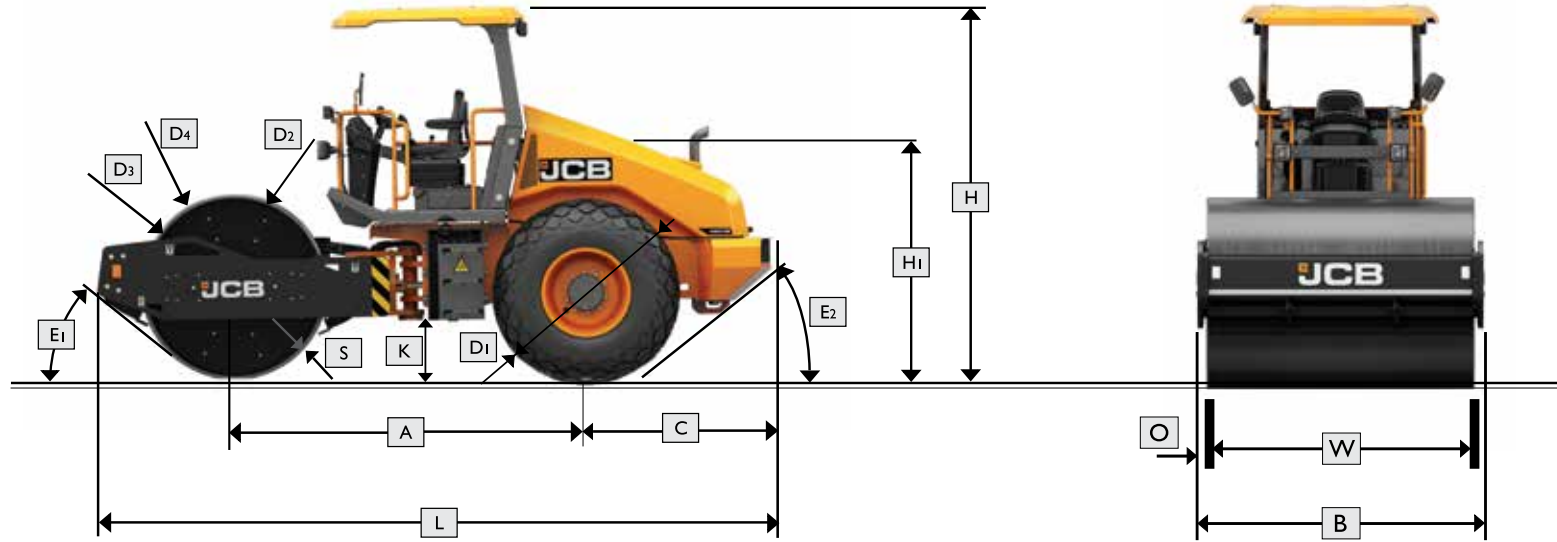
Helps you save your machine from intruders and possible tow aways.

Geofencing



Lets you keep your machine within the allocated area of work.

JCB I 16 SPECIFICATION



STATIC DIMENSIONS

Dimensions in mm		
A	Wheelbase	2846 mm
B	Overall width	2240 mm
C	Axle to rear face	1517 mm
D ₁	Wheel diameter	1560 mm
D ₂	Drum diameter (Smooth drum)	1500 mm
D ₃	Inner diameter padfoot drum	1500 mm
D ₄	Outer diameter padfoot drum	1680 mm
E ₁	Front departure angle	39°
E ₂	Rear departure angle	34°
H	Total travel clearance	2995 mm
H ₁	Height to top of seat (Unfold)	2280 mm
K	Ground clearance	443 mm
L	Total travel length	5473 mm
O	Overhang	70 mm
S	Drum thickness	28 mm
W	Drum width	2100 mm

OPERATING DATA

		JCB I 16		JCB I 16DD		JCB I 16PD	
Operating weight	kg	11250		11350		12770	
Operating axle load front / rear	kg	6350 / 4900		6450 / 4900		7870 / 4900	
Vibration stage		1	2	1	2	1	2
Exciter frequency	Hz (vpm)	32 (1920)	36 (2160)	32 (1920)	36 (2160)	32 (1920)	36 (2160)
Nominal amplitude	mm	1.8	0.8	1.8	0.8	1.28	0.58
Centrifugal force	kN	256	147	256	147	256	147
Centrifugal force / drum width	N/cm	1219	700	1219	700	1219	700
Working speed (Forward/Reverse) max.	km/h	6.5		5		5	
Travel speed (Forward/Reverse) max.	km/h	11		10.5		10.5	
Steering lock angle	degrees	± 35		± 35		± 35	
Vertical oscillation	degrees	± 15		± 15		± 15	
Inner turning radius	m	3.4		3.4			
Tyres		23.1 - 26 / 8 PR		23.1 - 26 / 8 PR		23.1 - 26 / 8 PR	
Number of padfoot						132	
Height of padfoot						80	
Gradeability up to (Drum drive)	degrees (%)	18.5 (34)		28.5/55		28.8 / 55	

JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories. The JCB logo is a registered trademark of J C Bamford Excavators Ltd.

JCB I 16 SPECIFICATION

ENGINE

Four-cylinder, water-cooled, four-stroke, turbo-charged, after-cooled diesel engine.

Make	JCB
Model	JCB Diesel Max TCA-74, TCA-85
Total displacement (cm ³)	4399
Gross power (hp)	100 / 114
Operating speed / Rated (rpm)	2000 / 2200
Starting device	Electric motor
Air cleaner	Two stage dry type
Fuel filter	Cartridge
Emission	BS-III confirms to CMVR norms

PROPULSION

Infinitely variable hydrostatic direct drive by variable displacement motor on rear axle and drum (On drum drive machine), limited slip axle.

EXCITER DRIVE

Electrically-controlled hydrostatic direct drive on drum.

EXCITER

Single-shaft circular exciter with overturning weights.

STEERING SYSTEM

Servo assisted centre articulation with automatic oscillation.

SERVICE CAPACITIES

Fuel	litres	300
Engine oil (Engine)	litres	14
Gear oil (Exciter)	litres	5
Hydraulic oil	litres	80
Coolant / System	litres	21

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	120
Alternator (Current carrying capacity)	A	90

INDICATORS AND SWITCHES

RPM cum 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.

OPTIONS

ROPS & FOPS cab, ROPS & FOPS canopy, compatron, padded foot drum shell, pressure measuring station & lift pump for filling tanks.

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700+
Outlets

5,000+
Trained service engineers

5
Parts warehouses



3,000+
Mobile service engineers

4
Training centres

250+
Service vans

24x7 Support
12 Languages

EXTENSIVE PARTS SUPPORT

JCB genuine parts offer a comprehensive machine protection solution.



JCB LOYALTY PROGRAM



Our loyalty programme is a reflection of our brand promise and our constant endeavour to offer you more than your expectations.

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Rewards points | Extended benefits
Special programme features



SMART & DIGITAL SUPPORT



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LiveLink

Genuine Parts

Dealer's stamp:

JCB INDIA LIMITED 23/7 Mathura Road, Ballabgarh - 121 004 Haryana, India.

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