

SPECIFICATION

EASY — IN A — HARD WORLD



SINGLE DRUM SOIL COMPACTOR | JCB 116D

Operating weight: 11,400 – 13,420kg Engine power: 85kW (114hp) Centrifugal force: 256 / 147kN



EASY IN A HARD WORLD.

Our strong and durable single piece exciter shaft delivers 256 kN of centrifugal force while a drum shell thickness of 28 + 10 mm stiffener rings is the highest in its class. This delivers more vibrating mass and superior robustness to achieve the density with less passes.

POWER, PERFORMANCE, PRODUCTIVITY.

The JCB 116D soil compactor achieves maximum performance through its combination of high front weight ratio and heavy-duty dynamic vibration system.



QUALITY, RELIABILITY, DURABILITY.

Every JCB 116D soil compactor is subjected to a rigorous 2-hour hot test before delivery. This ensures they are ready for trouble-free use from day one.

COMFORT AND EASE OF USE.

Heavy-duty rubber mounts reduce vibration on the operator platform and low noise levels ensure these machines can be operated without fatigue.



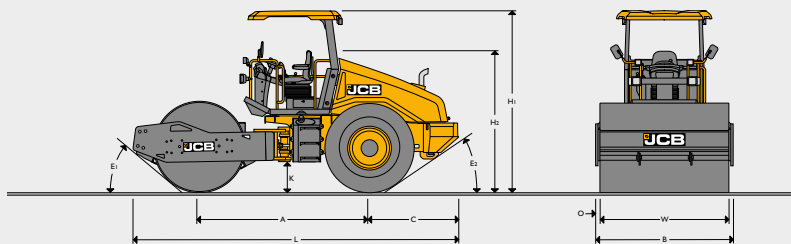
SERVICEABILITY.

The JCB 116D is designed for ease of servicing. All the daily checks can be done from ground level and on one side of the machine.

LIVELINK TELEMATICS.

JCB LiveLink is an innovative telematics system that lets you monitor and manage your machines remotely online, by laptop, tablet or smartphone.

STATIC DIMENSIONS



STATIC DIMENSIONS		CANOPY	CANOPY ROPS/FOPS	CABIN ROPS/FOPS
A	Wheelbase	mm	2846	
B	Overall width	mm	2240	
C	Axle to rear face	mm	1517	
E1	Front departure angle	degrees	39	
E2	Rear departure angle	degrees	34	
H1	Total travel clearance	mm	2995	3020
H2	Height to top of seat (unfolded)	mm	2280	
K	Ground clearance	mm	443	
L	Total travel length	mm	5473	
O	Overhang	mm	70	
W	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 TCA-85	
Total displacement	cm ³	4399
Gross power	kW (hp)	85 (114)
Operating speed / Rated speed	rpm	2000 / 2200
Starting device	Electric motor	
Air filter	Two stage dry type	
Air filter cleaning	Scavenge system	
Fuel filter	Cartridge	
Emmission level	Tier III	

SERVICE CAPACITIES

Fuel	litres	300
Engine oil	litres	14
Gear oil (exciter)	litres	5
Hydraulic oil	litres	80
Coolant	litres	21

PROPULSION

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

EXCITER DRIVE

Electronically-controlled hydrostatic direct drive on drum.

OPERATING DATA		ECO	CANOPY	CANOPY ROPS/FOPS	CABIN ROPS/FOPS
Operating weight CECE	kg	11400	11560	11680	11920
Maximum operating weight	kg	12900	13420	13420	13420
Operating axle load front / rear	kg	6500 / 4900	6680 / 4880	6740 / 4940	6980 / 4940
Static linear load	kg/cm	31.2	31.8	32.1	33.3
Vibration		1 / 2			
Frequency	Hz (vpm)	32 (1920) / 36 (2160)			
Amplitude	mm	1.80 / 0.80			
Centrifugal force	kN	256 / 147			
Working speed (forward / reverse) max.	km/h	0 – 5			
Travel speed (forward / reverse) max.	km/h	0 – 10.5			
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 / %	16.7 / 30.0	28.5 / 55	28.5 / 55	28.5 / 55

ELECTRICAL SYSTEM

Voltage	V	12
Battery capacity	Ah	120
Alternator	V	90

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.

STANDARD CONFIGURATION

LiveLink telematics, 2 frequencies, 2 amplitudes, remote engine oil drain, one key fits all, parts book, operator manual, working lights, air filter scavenge system, towing pump, heavy-duty vibrator coupling, adjustable operator seat with seat belt.

ROPS/FOPS CABIN: AVC (automatic vibration control), centralised service station for hydraulics, travel speed and torque selector with 4 working modes (work / travel / gradient / PD shells), road light kit, main battery switch, document pouch, cup holder, fan guard, fuel lubrication filter, grid heater, polyurethane scrapers, rotating beacon, flat glasses, air-condition, heating, CE marking (EAC for Russia & CIS).

ROPS/FOPS CANOPY: AVC (automatic vibration control), centralised service station for hydraulics, travel speed and torque selector with 4 working modes (work / travel / gradient / PD shells), road light kit, main battery switch, document pouch, cup holder, fan guard, fuel lubrication filter, grid heater, polyurethane scrapers, rotating beacon, anti-vandal cover for dashboard, sunroof, handrails.

CANOPY NO ROPS: Document pouch, metal scrapers, anti-vandal cover for dashboard, sunroof, handrails.

ECO: Metal scraper, sunroof, handrails.

OPTIONS

CCOMPATRONIC (compaction measurement device), PD (padfoot) shell kit (3 segments complete with scraper, not for ECO).



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

Single Drum Soil Compactor JCB 116D

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