

NEW JCB 3DX PLUS

**BHARAT
KA JCB**

BETTER TODAY, *even* BETTER TOMORROW



STAGE 5

eco
XPERT MAX
BACKHOE LOADER

Gross Engine Power: 55 kW (74 hp) | Shovel Capacity: 1.1 cu.m
Bucket Capacity: 0.26 cu.m

JCB

BETTER TODAY, *even* BETTER TOMORROW

Our Stage 5 machines are designed to excel today and set new standards for tomorrow. By integrating cutting-edge technology with exceptional efficiency, these machines not only enhance performance but also prioritise sustainability.

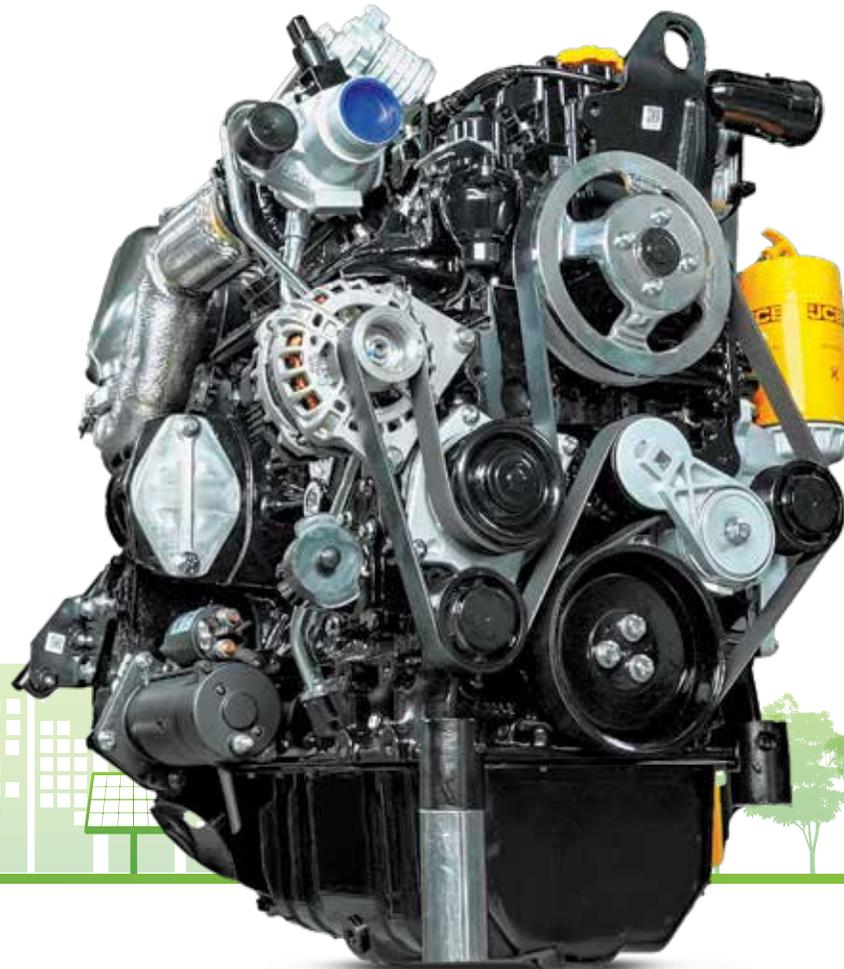
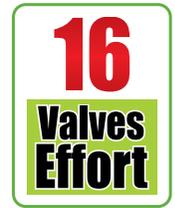
Our Stage 5 range is engineered to reduce environmental impact while delivering top-notch performance. Investing in our equipment means contributing to a greener future and building more responsibly.

Together, let's embrace advanced technology and sustainability, creating a stronger foundation for a better tomorrow with our Stage 5 products.



JCB **STAGE 5** 430 Dieselmax Engine

The JCB Stage 5 - 430 engine delivers 55 kW (74 hp) of power and provides a class-leading 440 Nm of torque at low RPM. This advanced engine enhances productivity while reducing fuel consumption and features a durable, lifetime after-treatment system. Equipped with Stage 5-compliant emission control technology, it includes an oxidation catalyst and a diesel particulate filter. The engine also features a robust fuel filtration system, with the primary filter replacement interval extended to 1 000 hours. Designed as a fully integrated, reliable, and efficient solution, it operates seamlessly, ensuring maximum uptime for your machine without impacting the user experience.



BETTER FUEL EFFICIENCY



1 Up to 12%* Lower Fuel Consumption

Enjoy significant savings with fuel efficiency improvements.

2 Fuel-Efficient Engine

The advanced Stage 5 JCB 430 engine, equipped with CRDi technology, ensures superior fuel efficiency.

3 Variable Displacement Hydraulic Pump

This pump dynamically adjusts flow based on load requirements, reducing hydraulic losses, enhancing fuel efficiency, and extending hydraulic oil life.

4 Auto Idle & Auto Stop Features

Save fuel with Auto Stop, which shuts off the engine after a 6-minute idle period.

Auto Idle mode activates after 10 seconds, conserving fuel by lowering idle speed.

5 Multiple Working Modes

3 modes: Eco, Standard & Plus mode for excavation to balance productivity with fuel efficiency.

2 modes: Loading & Rooding mode for optimising fuel consumption for specific tasks.



*Against the outgoing 3DX Plus ecoXpert tested under controlled environment. T&C Apply.

BETTER PERFORMANCE & PRODUCTIVITY



1 10% Higher Torque*

10%* higher torque (440 Nm) ensures quick engine response and provides the ability to work in challenging applications.

2 Eco, Standard, and Plus Modes

Choose the ideal mode to maximise productivity while optimising fuel efficiency for every task.

3 Loading & Rooding Modes

Optimised for specific tasks to enhance the overall performance.

4 e-Waste Gate Turbocharger

Optimises engine performance by regulating pressure, boosting power and efficiency.

5 Road Travel Speed

Maximum road speed of 36 km/h

6 4 Wheel Drive#

- 4WD gives all terrain ability with unmatched traction, stability, and performance. Its superior tractive effort reduces cycle times for loading and unloading, saving fuel and boosting productivity.

- 4WD with High Dump Bucket: Its high dump capability of up to 4.0 meters enables effortless material handling, allowing you to load at greater heights and enhance productivity.



*Against the outgoing 3DX Plus ecoXpert tested under controlled environment. T&C Apply.

#Optional



BETTER COMFORT & EASE OF USE



1 Standard ROPS & FOPS

Provides enhanced safety with standard Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS).

2 Reduced In-Cab Noise

Quieter cabin environment for greater operator comfort.

3 Smooth Throttle Control

Wire-free design allows effortless hand and foot throttle operation, boosting productivity with minimal maintenance.

4 Upgraded Seat

New seat with advanced cushioning and suspension reduces operator fatigue, ensuring longer, more productive work hours.

5 Independent Steering Pump

Delivers fast, responsive steering with fewer components, reducing maintenance and boosting safety and operator confidence.

6 Tinted Glass

Tinted front windshield keeps the cabin cooler and protects the operator's eyes from sun glare with a tinted front windshield.

7 Bluetooth Stereo

Enables hands-free calls and audio for safe, clear conversations and music playback while working.

8 Air Conditioned Cabin*

Six-duct air conditioning system ensures a cool, comfortable cabin, enhancing efficiency even in high temperatures.

9 Cold Start Kit*

It helps to start the engine when ambient temperatures are much lower.

*Optional

ROPS/FOPS CAB STRUCTURE



BETTER RELIABILITY & DURABILITY



1 Heavy-duty Components

Boom and Dipper are designed for heavy-duty tasks in tough environments. Robust D-shaped loader arm prevents twisting, suiting demanding applications.

2 H Section

The loader arm joint uses an "H" section with an expanded cross-sectional area and the additional welding provides enhanced strength and durability.

3 Brakes

JCB 'Q' Brakes are responsive and self-adjusting for effective, effortless braking, while the rear axle brakes are oil-immersed, low-maintenance, and resistant to dirt and water.

4 Chassis

The chassis is designed for maximum durability and strength, making it suitable for even the most demanding conditions.

5 Fuel Filtration System

Robust Fuel Filtration System ensuring longevity.

6 IP69 Connectors

All electrical harnesses are equipped with durable, dustproof, and waterproof IP69-rated connectors, ensuring longevity and resilience against environmental factors.



BETTER MAINTENANCE



1 Remote Diagnostics

It helps in remote identification of error codes to troubleshoot faults more efficiently.

2 Extended Fuel Filter Life

Primary fuel filter replacement interval extended from 500 to 1000 hours, enhancing productivity.

3 Advanced Hydraulic System

JCB's cutting-edge hydraulic system and filtration technology keep hydraulic oil exceptionally clean, with changing interval up to 4000 hours.

4 Digital Warning System

Digital visual warning system for any malfunction along with alerts & description, which can be specified to service engineer before his arrival on the site.

5 Enhanced Hydraulic Return Filtration

An improved return filtration system boosts efficiency and performance.

6 Hydraulic Filter Clogging Indicator

Hydraulic Filter Clogging Indicator - Higher life of hydraulic components.

7 Self-Priming Feed Pump

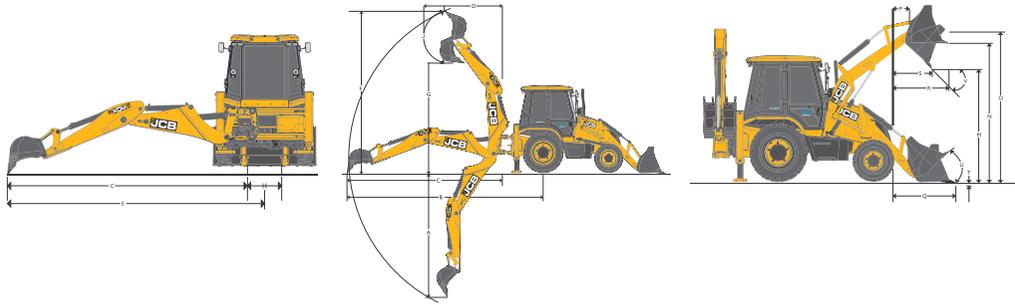
Eliminates the need for manual priming, preventing air intake in the fuel line and contributing to engine durability.

8 Open Loop Crankcase Ventilation

Design eliminates the need for a filter change, simplifying maintenance.



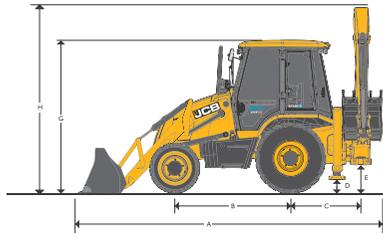
PERFORMANCE DIMENSIONS



EXCAVATOR PERFORMANCE

A	Max. dig depth	m	4.77 (15-8)
B	Reach-Ground level to rear wheel centre	m	6.72 (22.1)
C	Reach-Ground level to slew centre	m	5.40 (17.9)
D	Reach at full height to slew centre	m	2.90 (9-6)
E	Side reach to centre line of machine	m	6.02 (19-9)
F	Max. working height	m	5.97 (19-7)
G	Max. load over height	m	4.18 (13-9)
H	King post travel	m	1.02 (3-4)
J	Bucket rotation - Power	deg	185
	Bucket tear out force	kgf	5 959
	Dipper tear out force	kgf	3 257
	Lift capacity to bucket pivot at full reach (No bucket fitted) (SAE J31) (Data with standar dipper)	kg	1 490
	Standard bucket capacity	cu.m	0.26 (9.18)
	Standard bucket width	m	0.79 (2-7)

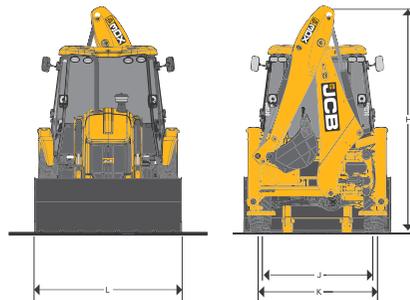
STATIC DIMENSIONS



A	Overall length	m	6.0 (19-8)
B	Wheelbase	m	2.17 (7-1)
C	Slew centre to rear axle centre	m	1.32 (4-4)
D	Minimum ground clearance	m	0.31 (1-0.2)
E	Slew ground clearance	m	0.51 (1-8)
G	Height to top of cab	m	2.87 (9-5)
H	Overall height	m	3.61 (11-10)
J	Track width - Rear	m	1.73 (5-8)
K	Track width - Front	m	1.86 (6-1)
L	Width over bucket	m	2.35 (7-9)

LOADER PERFORMANCE

M	Dump height	m	2.74 (8-12)
N	Load over height	m	3.32 (10-11)
O	Pin height	m	3.54 (11-7)
P	Pin forward reach	m	0.25 (0-10)
Q	Reach at ground	m	1.52 (4-11)
R	Max. reach at full height	m	1.15 (3-9)
S	Reach at full height - Bucket dumped	m	0.88 (2-11)
T	Below ground level dig depth	m	0.07 (0-3)
U	Rollback at ground	deg	45
V	Dump angle	deg	38
	Shovel breakout force	kgf	5 272
	Loader arm breakout force	kgf	5 635
	Payload	kg	1 800
	Standard shovel	cu.m	1.1 (38.85)



ENGINE

JCB 430, CRDi 55 kW Stage 5 Engine, 4 cylinder, water cooled, Turbocharged with EGR and aftertreatment system DOC and DPF.

Displacement : 3.0 L
Gross power : 55 kW (74 hp) @ 2200 rpm
Max torque : 440Nm @ 1 150 rpm

TRANSMISSION

The JCB synchroshuttle transmission provides superb drive power in all conditions. It consists of a 4-speed, fully synchromesh, smooth shift gear box with integral torque convertor and electrically operated reversing shuttle.

- Easy-to-use, column mounted electric reversing shuttle switch can change machine direction while allowing the operator to keep hands on the steering wheel, leading to fast cycle time.
- The pedals' layout and conventional 4-pattern gear lever with transmission disconnect switch adds to the overall ease of operation. On-the-move gear changes are possible.
- Bigger effortless foot throttle pedal.
- Torque converter stall ratio is 3.01:1.

BRAKES

- **Service:** JCB 'Q' brakes, hydraulically actuated, dual line, self adjusting (compensated), oil immersed, multi-disc type on the rear axle, well protected from dirt, water etc. requiring no maintenance. Operated through independent pedals linked together for normal use.
- Two independently operatable foot pedals enable machine to manoeuvre in tight spaces.
- **Parking:** Hand operated, disc brakes on rear axle input disc.

STEERING

Power track steering rod system provides equal turn steering & quick response with less operating force.

- Working pressure 160 bar (2 320 psi).
- Oil supply from steering pump passing through suction strainer & return line filter.

ELECTRICALS

130 Ampere-hour 12 V battery system with alternator and full road lighting.

TYRES

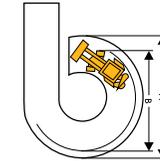
Front	22.9 cm (9") x 40.6 cm (16") 16 PR
Rear	42.9 cm (16.9") x 71.1 cm (28") 12 PR (Industrial)

SHIPPING WEIGHT

7 510 kg

TURNING CIRCLE

Inner wheels braked		
A* Outside loader bucket	m	8.64 (28-4)
B Outside wheels	m	6.20 (20-4)
Inner wheels not braked		
A* Outside loader bucket	m	11.6 (38-1)
B Outside wheels	m	8.94 (29-4)



* Standard bucket in travel position

SPEED

Gear	Forward km/hr	Reverse km/hr
1st	6.5	6.5
2nd	10.5	10.5
3rd	19.8	Not recommended
4th	36	Not recommended

(Above is with standard tyres & assuming zero torque converter slip@2000 rpm)

HYDRAULICS

270 Bar (3 915 psi) system ; Pump flow: 114 lpm at 2 000 rpm.

Filtration through suction strainer and return line 'JCB Filtromatic Filter'.

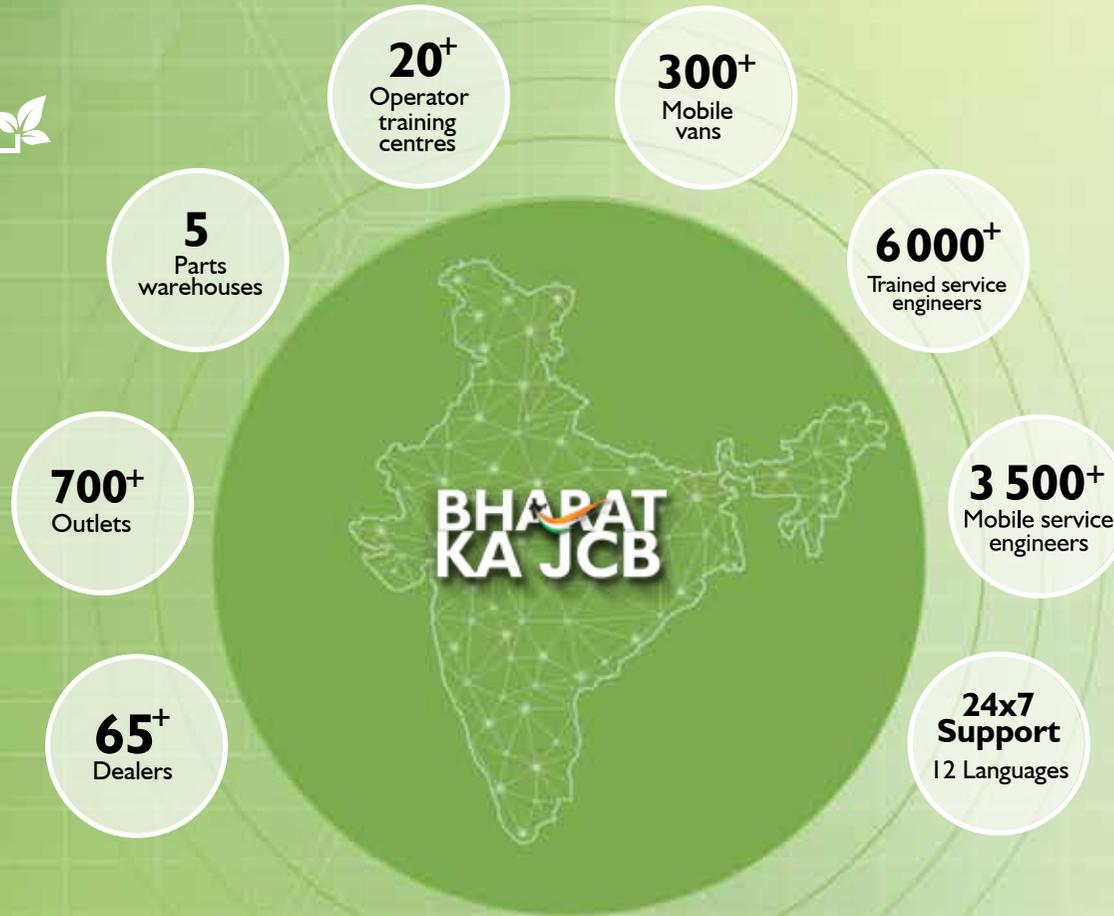
SERVICE

	System
Hydraulic system	92 L
Fuel tank	128 L
Engine coolant	20.5 L
Engine oil	15 L
Transmission	17.5 L
Rear axle	20 L

OPTIONS

- Excavator buckets capacities: 0.12 cu.m & 0.18 cu.m
- 6-in-1 clam shovel bucket to doze, dig, grade, backfill, grab and load (1.0 cu.m)
- 4WD
- JCB extending dipper provides up to 1m of extra reach when compared with the standard dipper.
- Heavy-duty rear tyres 14 x 25
- Intelli-dig
- Cold start kit

BETTER CUSTOMER SUPPORT NETWORK



Dealer's stamp:

JCB INDIA LIMITED (India Headquarters)

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

For more information, call our toll free no. **1800-1037-386** | Website: www.jcb.com



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