

NEW JCB 3DX SUPER

**BHARAT
KA JCB**

BETTER TODAY, *even* BETTER TOMORROW



STAGE 5

eco
XPERT MAX
BACKHOE LOADER

Gross Engine Power: 55 kW (74 hp) | Shovel Capacity: 1.0 cu.m
Bucket Capacity: 0.30 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.

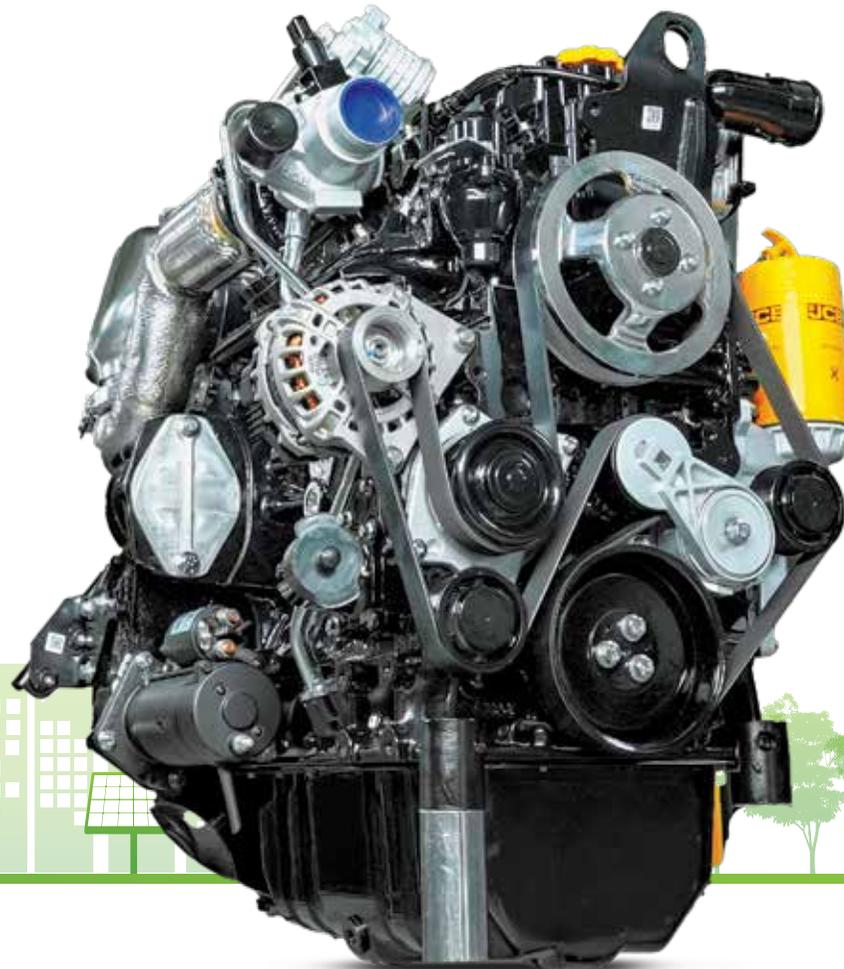


JCB **STAGE 5** 430 Dieselmax Engine

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.



Well tested 
2 00 000+
cumulative hours



BETTER FUEL EFFICIENCY



1 Up to 10%* 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 Super 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 6-in-1 Bucket

Perform many jobs with one bucket, introducing the most versatile function of JCB 3DX Super, the 6-in-1 bucket, best suited for road development.

3 Bucket Capacity

Bucket capacity of 0.30 cu.m with extra reach of 2.9m dump height which is 7%* higher than the 3DX.

4 Digging Capacity

Deeper digging with 5.05m dig depth which is 6%* higher than the base model.

5 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.

6 Easy Shift

Ease of operation and better productivity with effortless gear shifting using a rotating knob for the shuttle gear lever.

7 Semi Automatic and Kick-Down

While loading in 2nd gear, operator can shift to 1st gear with push of a button and automatically shift to 2nd gear as soon as reverse gear is engaged during loading cycle.

8 Plus Mode

Plus mode helps in achieving up to 20%* additional productivity over eco mode.

9 e-Waste Gate Turbocharger

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

10 Max. Speed

Less transit time with max. speed of 40 km/h.

11 Smooth Ride System#

The loader arm hydraulic circuit features an accumulator that reduces road vibrations, improves stability, and minimises spillage during operations, especially on uneven terrain. It enables the operator to drive the machine at higher speeds with greater comfort, further ensuring better productivity and a longer life for the front axle.

6-in-1 BUCKET

GRABBING



GRADING



SPREADING



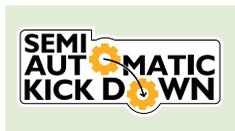
DOZING



LOADING



DIGGING



*Against the outgoing 3DX Super 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 reduce 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 your machine's longevity

6 IP69 Connectors

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

7 Enhanced Stability and Durability

Better stability and durability with reliable JCB rear axle fitted with heavy-duty differential / planetary gears & final drive. The axle is manufactured at JCB plant & has undergone rigorous testing.



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 1 000 hours, enhancing productivity.

3 Advanced Hydraulic System

JCB's cutting-edge hydraulic system and filtration technology keep hydraulic oil exceptionally clean, with changing interval to 4 000 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.

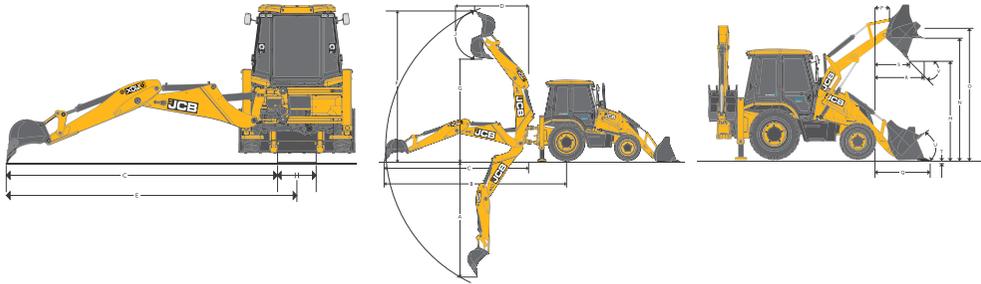
8 Open Loop Crankcase Ventilation

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



*T & C Apply

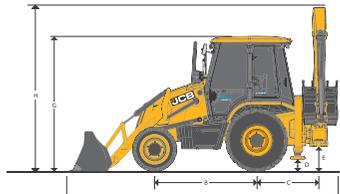
PERFORMANCE DIMENSIONS



EXCAVATOR PERFORMANCE

A	Max. dig depth	m	5.05 (16-7)
B	Reach-ground level to rear wheel centre	m	7.0 (22-11)
C	Reach-ground level to slew centre	m	5.61 (18-5)
D	Reach at full height to slew centre	m	2.65 (8-8)
E	Side reach to centre line of machine	m	6.14 (20-2)
F	Max. working height	m	6.2 (20-4)
G	Max. load over height	m	4.35 (14-3)
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 standard dipper)	kg	1 490
	Standard bucket capacity	cu.m	0.30 (10.6)
	Standard bucket width	m	0.82 (2-8)

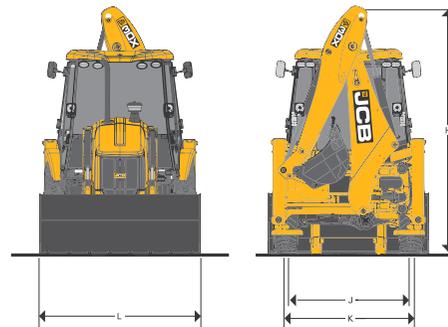
STATIC DIMENSIONS



A	Overall length	m	6.25 (20-6)
B	Wheelbase	m	2.24 (7-4)
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	3.90 (12-10)
J	Track width - Rear	m	1.73 (5-8)
K	Track width - Front	m	1.91 (6-3)
L	Width over bucket	m	2.23 (7-4)

LOADER PERFORMANCE

M	Dump height	m	2.93 (9-7)
N	Load over height	m	3.37 (11-1)
O	Pin height	m	3.64 (11-11)
P	Pin forward reach	m	0.41 (1-4)
Q	Reach at ground	m	1.70 (5-6)
R	Max. reach at full height	m	1.22 (4-0)
S	Reach at full height - Bucket dumped	m	0.90 (2-11)
T	Below ground level dig depth	m	0.15 (0-6)
U	Rollback at ground	deg	43
V	Dump angle	deg	41
	Shovel breakout force	kgf	5 687
	Loader arm breakout force	kgf	5 285
	Payload	kg	1 650
	Lift capacity at full height	kgf	3 050
	Clam Shovel	cu.m	1.0 (35.3)



ENGINE

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

Displacement : 3.0 L
Gross power : 55kW (74hp) @ 2 200 rpm
Max torque : 440Nm @ 1 150 rpm

TRANSMISSION

Easy Shift JCB synchroshuttle transmission provides effortless gear shifting with column mounted rotating switch. It consists of a 4-speed, fully synchromesh, smooth shift gear box with integral torque convertor.

- Easy-to-use, column mounted electric reversing shuttle switch can change machine direction while allowing operator to keep hands on the steering wheel, leading to fast cycle time.
- JCB easy shift easy to use column mounted rotating knob type gear shifting, adds to the overall ease of operation. On-the-move gear changes are possible
- Bigger and effortless foot throttle pedal.
- Torque converter stall ratio is 3.01:1.
- Electrical selection of 4WD allows on-the-move changes.

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 maneuver in tight spaces.
- Option exists on the machine to automatically switch from 2WD to 4WD for effective transmission braking.
- **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).
- Hydraulic supply from independent steering pump passing through suction strainer & return line filter.

ELECTRICALS

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

TYRES

2WD

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)

4WD

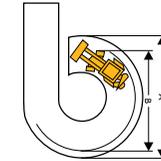
Front	31.8 cm (12.5") x 45.7cm (18") 12 PR
Rear	42.9 cm (16.9") x 71.1 cm (28") 12 PR (Industrial)

SHIPPING WEIGHT

7 880 kg

TURNING CIRCLE

Inner wheels braked		
A* Outside loader bucket	m	10.4 (34-14)
B Outside wheels	m	7.21 (23-78)
Inner wheels not braked		
A* Outside loader bucket	m	11.5 (37-87)
B Outside wheels	m	8.32 (27-35)



* Standard bucket in travel position

SPEED

Gear	Forward km/hr	Reverse km/hr
1st	5.7	5.7
2nd	9.2	9.2
3rd	19.8	Not recommended
4th	40.0	Not recommended

(Standard tyres, with zero torque converter slip@2 200 rpm)

HYDRAULICS

270 Bar (3 915 psi) system ; Pump flow: 125 lpm at 2 200 rpm.

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

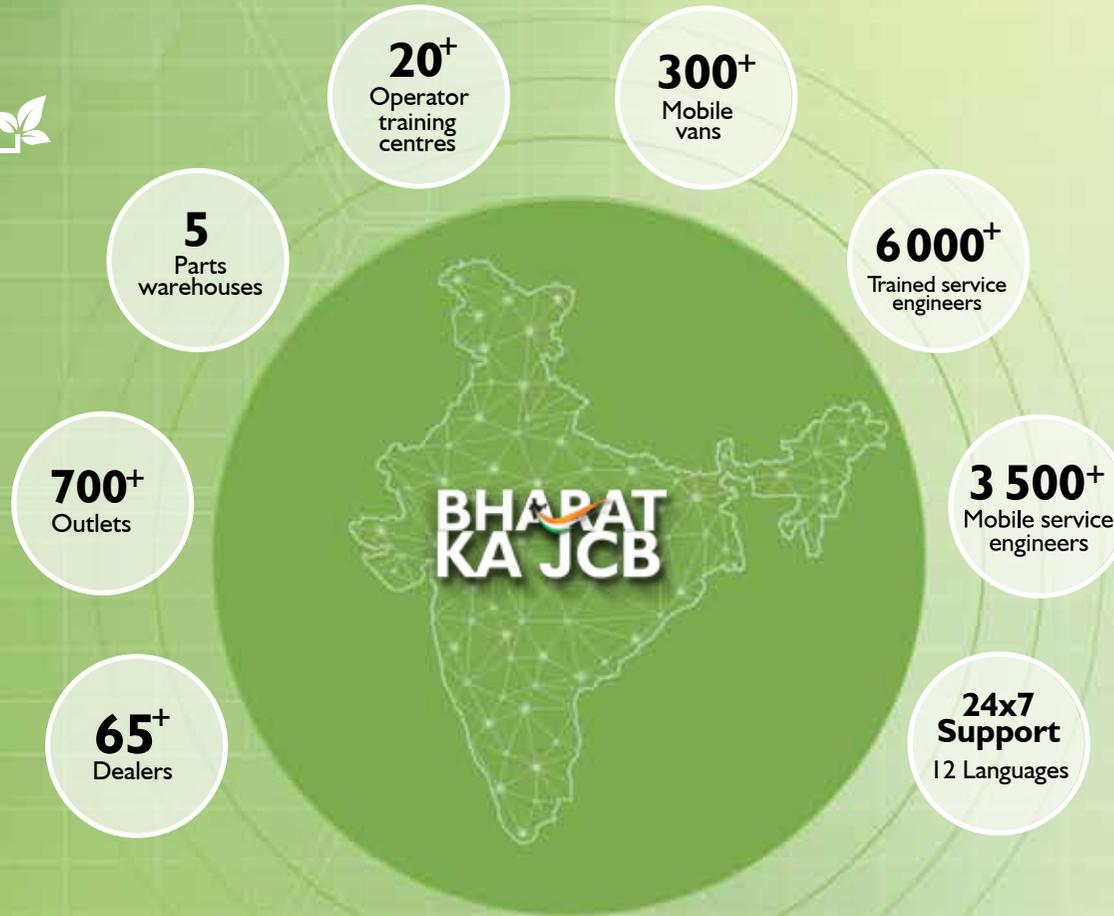
SERVICE

	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
Front Axle	11 L

OPTIONS

- General purpose shovel (1.1 cu.m)
- Excavator buckets capacities: 0.12 cu.m, 0.18 cu.m, 0.26 cu.m
- Ditch cleaning bucket
- Taper ditch bucket
- Heavy-duty rear tyres 14x25
- Intelli-dig

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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