

NEW 3DX



LOADED WITH INNOVATIVE FEATURES

GET AHEAD OF YOUR GAME
WITH THE NEW 3DX POWERED BY INTELLI PERFORMANCE.



75 years of innovation

We've been innovating since day one, and we've always cultivated a uniquely fearless approach to design. The constant innovation and growth for more than 75 years, has led JCB to provide the world's best backhoe loader range with a total population of over 7 50 000 machines.

JCB Backhoe Loaders, introduced in the year 1953 revolutionised the construction industry in a very short span of time with its multifarious application usage, which gradually made us the leading backhoe loader manufacturer globally. In India, more than 4 00 000 backhoe loaders are on the road, and for us it is not just a matter of pride but a true demonstration of sheer excellence and precision.

Presently, JCB has a strong brand presence in India, which is a true testament to our belief of "Always looking for a better way".

CELEBRATING

BHARAT KA BHAROSA



INTRODUCING THE NEW 3DX

Powered with IntelliPerformance



IntelliPerformance is a uniquely developed machine system that is continuously reacting to the changing demands of the operator and application. The system effectively manages the energy demand from the hydraulic & powertrain to give a perfectly optimised performance.

This innovative technology is another example of JCB's "Intelligent Machines" strategy to further reduce fuel consumption whilst delivering legendary 3DX performance.



12%*
MORE FUEL EFFICIENCY

22%*
REDUCED MAINTENANCE COST



2 Excavation Operating Modes



Auto Stop



IntelliDiagnostics



Advanced LiveLink

*Against the outgoing 3DX ecoXcellence model, tested under the standard condition. T&C Apply.

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1.2%* More Fuel Efficient
Variable Displacement Hydraulic pump provides a potential of saving.

Wear Pads Rust Proof Lock Nuts
The Wear Pad Lock Nuts are now coated with a rust proof coating to enhance the life of internal threads. This provides ease of tightening and replacement.

Economy & Standard Mode
The eco mode gives better fuel efficiency and standard mode gives more productivity.

Smooth Gear Shift
The Smooth Gear Shift, provides the operator with comfort and ease of operation for enhanced productivity.

Bluetooth Stereo & Telephony
Ensure a fatigue-free and relaxed operation with Bluetooth stereo.

Advanced LiveLink
Advanced LiveLink, an innovation that gives you the additional facility of data analytics about the operational behaviour of your machine.

Wider Dipper
Wider dipper with extra metal enhances life.

Trip Hour Meter (Kms)
Keep track of the distance covered.

New Improved Seat
Ergonomic seat for longer duration of operation without fatigue.

Trip Hour Meter (Hours)
Keep track of the work done in hours.

Auto Stop
An inbuilt feature that automatically shuts the engine off after 6 minutes of inactivity thereby, saving fuel and money.

Date & Time Information
Be on the move with date & time information on the display.

Inner Rear View Mirror
Provides assistance to operator to see rearwards.

Sunscreen & Tinted Glass
The Sunscreen and Tinted Glasses ensure comfortable operation, as the eyes of the operator are always protected from the glare of the sun.

Informative Digital Cluster Display
Informative display for ease of operation.

2.2%* Less Maintenance Cost
Extended hydraulic oil changed period - 4 000 hrs from 2 000 hrs.

Improved Life of Pins and Bushes
Extended life of boom and dipper joint pins as well as bushes make the machine more reliable.

Ambient Temperature Information
Be updated on ambient temperature.

New Styling Roof
New stylised roof for better rainwater management increasing uptime in rainy seasons.

No Contact Fuel Level Sensor
New fuel sensor design that is more reliable and suits all types of fuel providing accuracy in reading and a longer life in various fuel conditions.

Digital Speedometer
Operation made easy with an advanced Digital Speedometer that displays speed with darity.

Hydraulic Filter Clogging Indicator
Get alerts about the clogging of hydraulic filter, thus, enhancing the life of hydraulic components.

Coolant Indicator on Radiator
Coolant Indicator window makes it easy to know coolant level, thus, safeguarding engine heating and increasing uptime.

Replaceable Breather Element on Hydraulic Tank
Breather Element on hydraulic tank can be replaced separately, increasing the pump and oil life, saving cost.

Intelli Diagnostics
A Smart App is connected to the machine via Bluetooth which enables quick identification of concerns.



LED Rear Work Lamp
LED Rear work lamps for improved visibility at night.

New External Styling
Refreshed external looks and roof structure.

Service Interval Reminder
Never miss or delay the service of your machine with service interval reminders on the Informative cluster.

*Available as an accessory at JCB authorized dealership.
*Against the outgoing 3DX ecoXcellence model, tested under the standard condition. T&C Apply.

BIG SPACIOUS CABIN WITH EASY OPERATION

Informativ digital duster with an audio-visual warning system displays any malfunctioning along with ERROR code enabling the service engineer to be prepared before he arrives at the site.

New improved cabin interiors with better seat and bluetooth stereo to ensure fatigue-free operation.

Operation made easy with an advanced digital speedometer that displays speed with clarity.

The sunscreen and tinted glasses ensure comfortable operation, as the eyes of the operator are always protected from the glare of the sun.

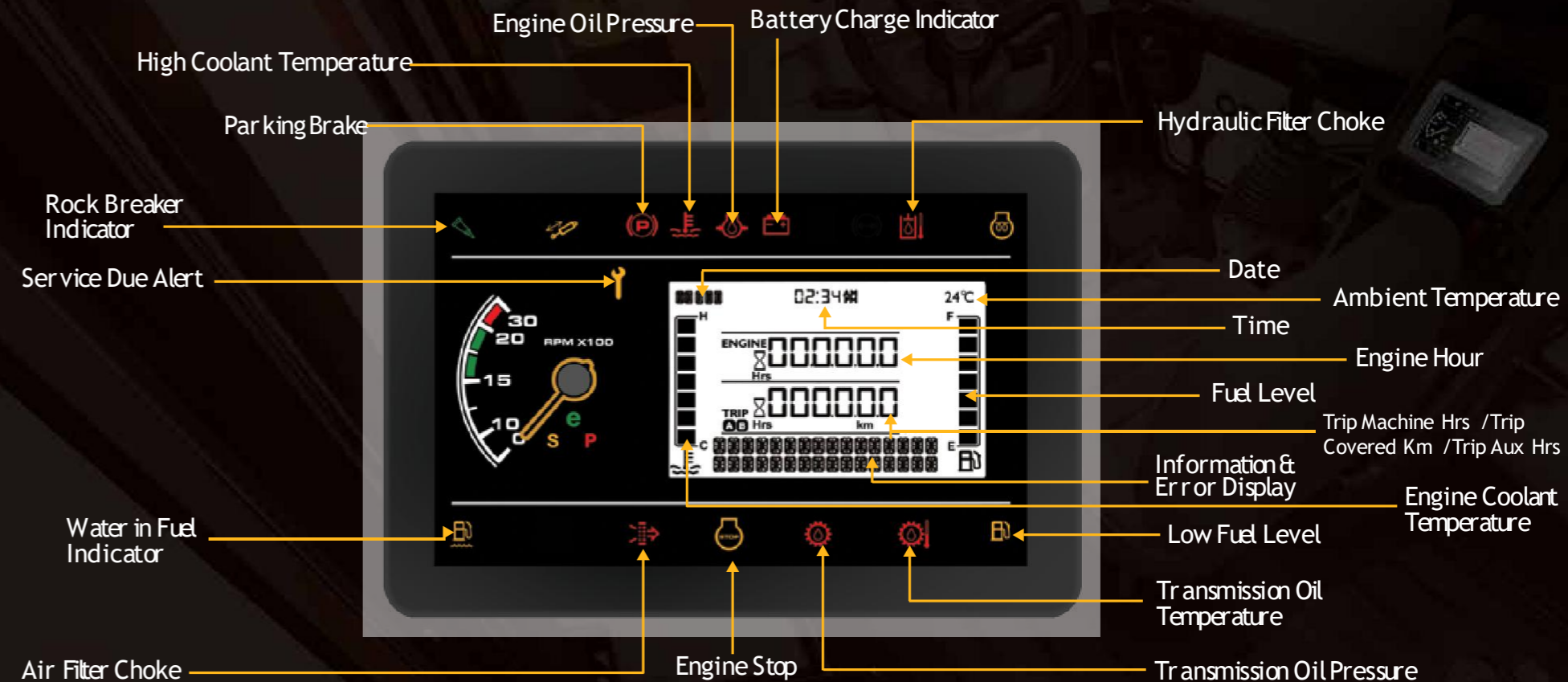
IntelliDiagnostics enables quick identification of concerns. A service engineer can quickly resolve a critical concern enhancing the uptime.

Coolant Indicator window makes it easy to know coolant level, thus, safeguarding engine heating and increasing uptime.

Get alerts about the dogging of hydraulic filter with the advanced hydraulic filter dogging indicator, thus, enhancing the life of hydraulic components.



Informativ digital cluster display



INTELLIDIG

IntelDig# is a smart monitoring system that assists you in all kind of digging operations for maximum productivity, ease of use and safety. Installed with sensors, this intelligent backhoe loader guides you in specific depth requirements eg. gas pipeline laying, fibre optics, drainage and trenches. The system also ensures protection to existing system like pipeline, cables and overhead lines.



Dig profile selection

Dig profile selection - with a choice of flat surface, rectangle, downhill slope & uphill slope modes, do accurate digging with ease and in lesser time.

Real time indication

Get real time depth, reach and slope indications with visual and audio warnings including height warning alert on the Informative cluster, for more optimised digging, ensuring more fuel savings.

Receptive sensors

The highly receptive sensors are located on the bucket link, boom, dipper & chassis, ensuring intelligent monitoring throughout the digging operation.



#Optional feature

ADVANCED CONNECTIVITY

STAY CONNECTED 24X7

Now be assured of your JCB Backhoe Loader's service, operation and security with the advanced telematics technology called LiveLink.



Service	Service reminder	Machine data backup	Critical machine health alerts	
Operation	Machine utilisation report	Fuel level information	Engine status	Data analytics
Security	GPS tracking	Possible intrusion/Tow away alerts	Operating hours/Time fencing	Geofencing



SERVICE & SUPPORT

MAXIMISE YOUR PROFITABILITY AND REDUCE DOWNTIME

JCB's certified engineers are there to maximise your profitability and reduce downtime.

Our engineers are always there to serve the customers and provide value-added solutions to all their concerns regarding the machines and services.



JCB trained and certified engineers	Best-in-class service and repairs	On-site training and support
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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

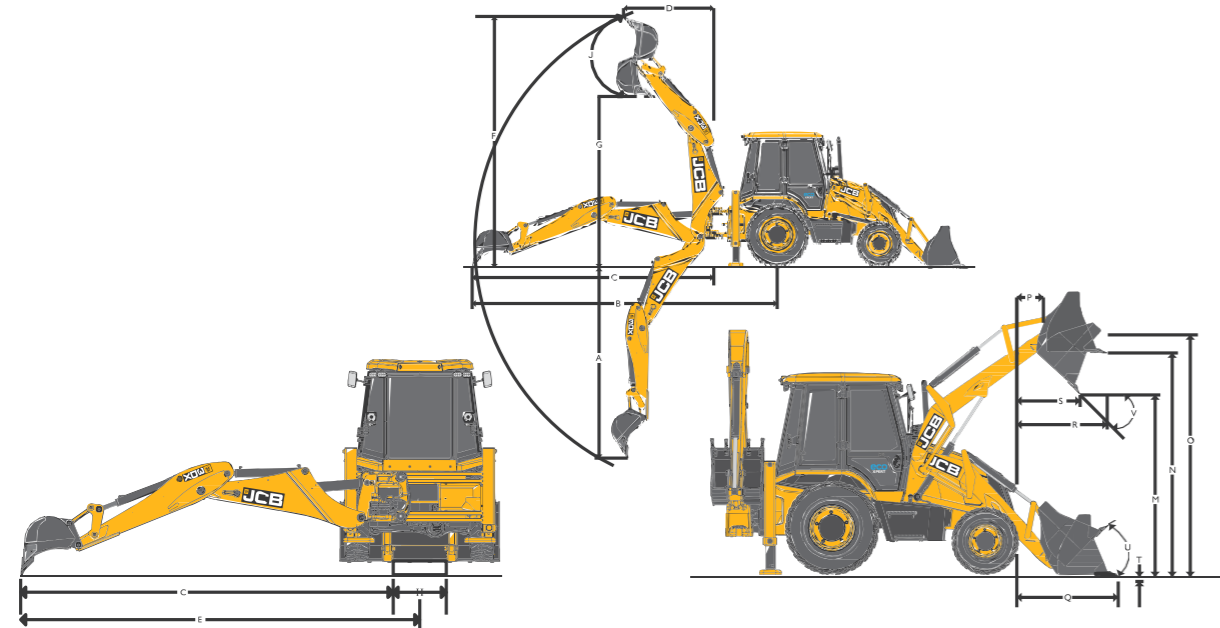


BENEFITS OF JCB CAREPLUS

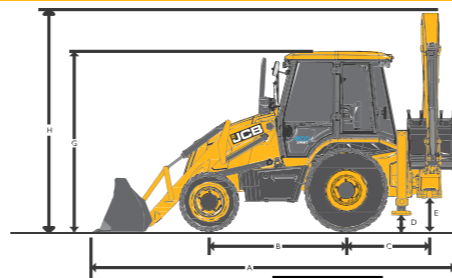
No limits on number of claims	Preventive maintenance service*	Nationwide coverage**
JCB skilled manpower support	Maximum productivity	Maximum uptime
Maximum performance	Breakdown cost protection	Better resale value

*Varies on JCB Careplus package selected.
**All services completed in line with the JCB recommended service interval schedule.

PERFORMANCE DIMENSIONS



STATIC DIMENSIONS



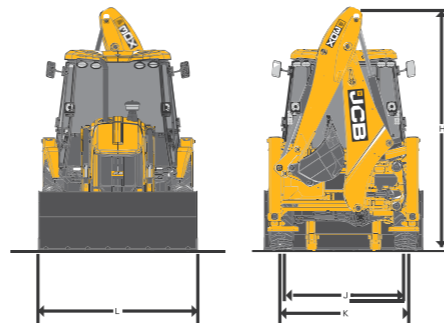
	m	3DX
A Overall length	m	5.90 (19.4)
B Wheelbase	m	2.17 (7.1)
C Slew centre to rear axle centre	m	1.32 (4.4)
D Minimum ground clearance	m	0.31 (1.017)
E Slew ground clearance	m	0.51 (1.9)
G Height to top of cab	m	2.87 (9.5)
H Overall height	m	3.61 (11.10)
J Track width - Rear	m	1.73 (5.8)
K Track width - Front	m	1.86 (6.1)
L Width over bucket	m	2.35 (7.9)

EXCAVATOR PERFORMANCE

		3DX
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	2.74 (8.12)
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	1.06 (3.6)
J Bucket rotation - Power	deg	185
Bucket tear out force	kgf	5 700
Dipper tear out force	kgf	3 010
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	0.26 (9.18)
Standard bucket width	m	0.79 (2.7)

LOADER PERFORMANCE

		3DX
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	1.42 (4.8)
R Max. reach at full height	m	1.15 (3.9)
S Reach at full height to depth dumped	m	0.98 (3.2)
U Rollback at ground	deg	45
V Dump angle	kgf	38
Shovel breakout force	kgf	5 272
Loader arm breakout force	kgf	5 300
Payload	kgf	1 800
Standard shovel	cu.m	1.1 (38.85)



ENGINE

JCB 448, naturally aspirated, 4 cylinder, water cooled Diesel Engine
Displacement : 4.8 litres
Gross power : 36 kW (49 hp) @ 2 000 RPM
Max torque : 240 Nm (24.5 kg-m) @ 1 200 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 converter 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.
- Torque converter stall ratio is 3.0:1.

AXLES

- **Rear** : Drive axle rigidly mounted, incorporates JCB Max-Trac torque proportioning differential, driven by short prop shaft from gear box.
- **Front** : Steer axle, centrally pivoted, with oscillation angle of 16°.

BRAKES

- **Service** : JCB 'Q' brakes, hydraulically actuated, dual line, self adjusting (compensated), oil immersed, multi-disc 2nd type on the rear axle, well protected from dirt, water etc. 3rd 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 2 320 psi. (160 bar)
 - Oil supply from steering pump passing through suction strainer & return line

ELECTRICALS

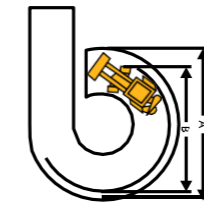
130 Ampere-hour 12 Volts battery system with alternator and full road lighting.

TYRES

Front : 9 x 16 - 16 PR
 Rear : 16.9 x 28 - 12 FR

TURNING CIRCLE

Inner wheels not braked		3DX
A* Outside loader bucket	m	8.64 (28.4)
B Outside wheels	m	6.20 (20.4)
Inner wheels 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	5.0	5.0
2nd	8.0	8.0
3rd	17.0	Not recommended
4th	32.3	Not recommended

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

HYDRAULICS

Filtration through suction strainer and return line "JCB filtromatic filter".

System pressure (p.s.i.)	3 850
Pump flow (lpm) @ 2000 rpm	114

SHIPPING WEIGHT

7 510 kg

SERVICE

	System
Hydraulic system	92
Fuel tank	128
Engine coolant	16.5
Engine oil	15
Transmission	17.5
Rear axle	20

CABIN

- LED Work lamp* on excavator end for better night time visibility and safety.
- New stylish roof with improved rainwater management system
- Informative digital cluster display with new features like service reminders, date, time, ambient temperature, trip meter (hour & km) & error codes display for machine diagnostics.
- Tinted cab glasses provide excellent all round visibility & sun protection.
- Sunscreen on front windscreen enables operator to focus while working at full height eg. truck loading.
- Auto stop feature allows fuelsaving.
- A fully adjustable suspension seat combined with ergonomically positioned controls and soft touch steering wheel & standard fit Bluetooth enabled music system*.
- Cab provides easy 'walk through' two door access. Other features include seat belt, large convex rear view mirror inside cabin, interior light, front screen wiper, cabin fan, front and rear horn, hazard warning system, tool box and helper seat.
- Instrumentation panel is positioned on the right hand side and includes engine speed, engine hours, trip meter (hours & kilometer), fuel level, water temperature and mobile charger.
- Audio and visual fault warning system for alternator charge, coolant temperature, engine oil pressure, blocked air filter, transmission oil pressure and temperature and hand-brake on.

LIVELINK

Advanced telematics technology that enables you to monitor and manage your machines remotely by providing information.
Service : Routine maintenance information and alerts
Operation : Health alerts & usage data
Security : Machine location & movement data

OPTIONS

- Excavator buckets Capacities: 0.06 cu.m, 0.09 cu.m, 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)
- Ditch cleaning bucket
- Taper ditching bucket
- Square hole bucket
- Rock breaker
- Ripper tooth
- Heavy-duty rear tyres 14x25
- Auger
- Intelli Dig

All dimensions, weights and timings are variable within 1.5%, JCB reserves the right to change specifications without prior notice.