

NEW

3DX / 3DX-XTRA | THE NEXT GENERATION BACKHOE LOADER

LIVE LINK



Fuel Efficient



Highest Return
on Investment



Longlife JCB
Engine ecoMAX



Spacious
Cabin



Stay Connected
24 X 7



AC
Cool Comfort



Servo
Controls

JCB

You are always ahead with JCB Backhoe Loaders

How do you improve on the world's leading Backhoe Loader?

Only JCB would know. Sixty seven years globally and over 35 years of experience in India, continuous attention to detail, constantly looking for a better way, & feedback from over 1,75,000 customers has led JCB to this range of new generation Backhoe Loaders.

There's no doubt that the JCB Backhoe Loaders are the most fuel efficient and versatile machines. They can do the work of many. They have the power and performance to tackle any job.

With its new features, the new JCB Backhoe Loader range has set new standards for years to come.



The **Next**
GENERATION
BACKHOE LOADERS

*Terms & Conditions Apply

Go for



Most fuel efficient Backhoe Loader on earth

20%* lower fuel consumption in excavation

25%* more work per litre of fuel

Most efficient hydraulic system
(With enhanced hydraulic pump flow)



Powered by
JCB ENGINE
ecoMAX

16
Valves
Effort

Big
on Fuel
Saving

 Environment
Friendly

 Reliable

 Low
Maintenance
Cost

 Long
Life

 Best-in-class
Productivity

 Low Noise &
Vibration

*Terms & Conditions Apply

Finish
your work
ahead of
schedule
with

**Incredible
Productivity**

20%* higher output per hour

Highest digging force

Best performance in all strata

Superior Backhoe Performance Highest dig depth in the industry

High hydraulic system pressure and large size hydraulic cylinders allow far higher tear-out forces enabling the machine to dig hard ground with high productivity.

Heavy duty JCB boom and dipper ensures digging close to the machine and improved visibility of the trench.

128 litre fuel tank ensures un-interrupted operations for long hours without refueling the tank.

The oil impregnated adjustable wear pads provide a stable work platform which enhances digging performance.

Narrow width boom and dipper provide excellent visibility.

Extra dig option provides 1 meter deeper dig depth.



*Terms & Conditions Apply

Load
dig/doze
more with

**Enhanced
Performance**



Best-in-class breakout force

Durable & reliable structure

High torque JCB engine

Powerful Loader Performance

High dump feature - ease in high body truck loading.

'EDSD' (External 'D' Shaped Design) durable loader arm design, ideal for hard strata with best-in-class break-out force and lift capacity, resist twisting when entering pile.

4 ram parallel lift geometry for load retention and clear visibility. Load spotting is quicker due to superb dump height and reach.

The loader arm mounting pivots are machined for correct alignment and specially designed brass bushes are provided to ensure long wear-free life.

The sloping bonnet line provides the operator an unhindered view of the shovel while loading and site clearance operation.



Stay ahead with new generation Backhoe Loader

Style and Design

Macho looks

Best visibility : front, rear & side

Ease of bonnet opening (with gas strut)

Lockable bonnet with battery inside

Servo Control* Operation



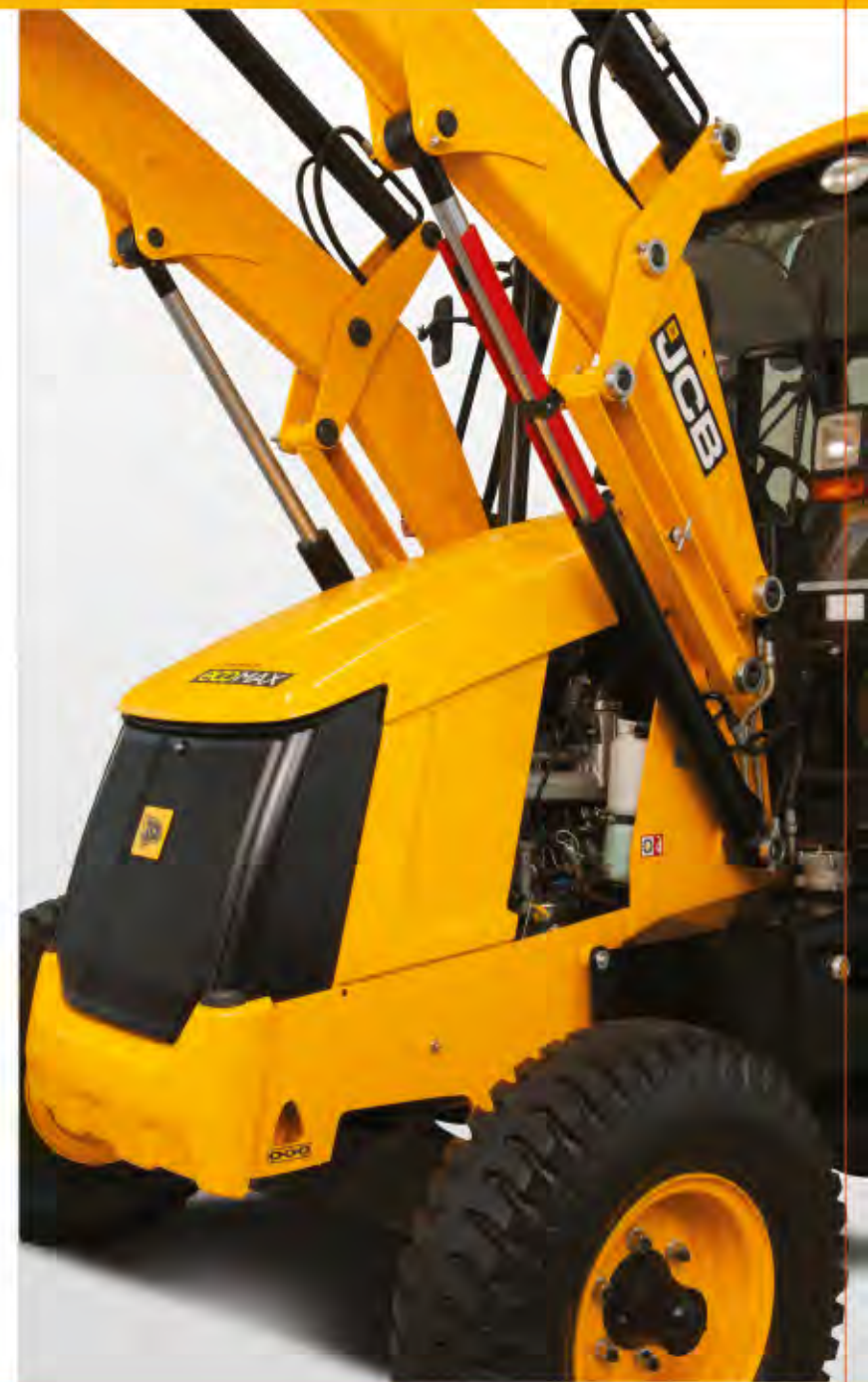
Contemporary Styling Bonnet

- Gas strut assisted full opening of Bonnet from front.
- One lever opening of Bonnet for quick access to engine compartment.
- Protection to the radiator from choking due to smaller hole perforations in front grill.
- All daily checks at one side and at ground level to save time.
- Easy opening of front grill enables quick and easy cleaning of coolers and radiator.

Superb Maneuverability

- Option of excavator end servo control for better productivity & smooth operation.
- Small turning radius makes the machine turn quicker and thus be more productive in loading cycle.
- Power track steering rod system for equal turn steering and quick response with less operating force.
- The newly designed front axle gives trouble free life.

* Only on 3DX-Xtra



A comfortable operator is a productive operator

- 20% more spacious & livable cabin
- Option of AC (cool comfort)* cabin
- Low heat & noise inside the cabin (only 84 db)
- Ergonomically positioned controls
- Deluxe automotive styling
- Comfortable operator seat
- Large leg space for ease of operation
- 20% more space for operator belongings
- JCB'Q' brakes, 30% reduction in braking effort
- Music system
- CED coated painting for longer life
(First time in Indian CE industry)
- Face fan for operator comfort in
hot environment
- Excellent ventilation - partial or full opening
of both front and rear side windows
- Access of gear box through cabin floor
for minor maintenance
- IP 67 / 69 certified, dust and water
proof electrical connector

* Only on 3DX-Xtra



Ultimate ease of serviceability

Longer change intervals for engine lube/filters (Now 500 hours)

Filling & servicing from ground level

Easy access to engine compartment

Easy and best availability of parts

600+ outlets with trained engineers

- Hydraulic and diesel tanks, conveniently located on left and right of the machine, ensure ground-level filling and ease in replacement of hydraulic filter.
- The bigger inspection plates on both the tanks make it easy for cleaning whenever required.
- Easily removable front grill makes it convenient to pressure clean the coolers.
- Transmission oil change period increased to 1000 hrs.



World class in-house manufacturing

Engine, Transmission, Front and Rear Axles & Chassis, Boom & Dipper



JCB Livelink - Stay Connected 24x7

Now you can be rest assured of your JCB Backhoe's safety, security and operation 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 conditions.

Service Reminder

Reminds you when the service of your machine is due to help you plan your work better.



Machine Data Backup

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



Critical Machine Health Alerts

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

- Low Engine Oil Pressure
- High Engine Temperature etc.
- Water in Fuel.
- Clogged Air-filter.



OPERATION



Livelink helps you maintain your machine 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 Utilization Report

Maintains machine usage record and helps you analyze & optimize utilization of machine.



Fuel Level Information

View fuel usage of your machine which helps in analysing your machine's fuel consumption, thus helping you improve efficiency and save on fuel. 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 keep track of your machine's location, protection and movement.

GPS Tracking

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



Operating Hours

Alerts you when the machine is used outside the working hours as set by you.



Tow Away Alerts

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

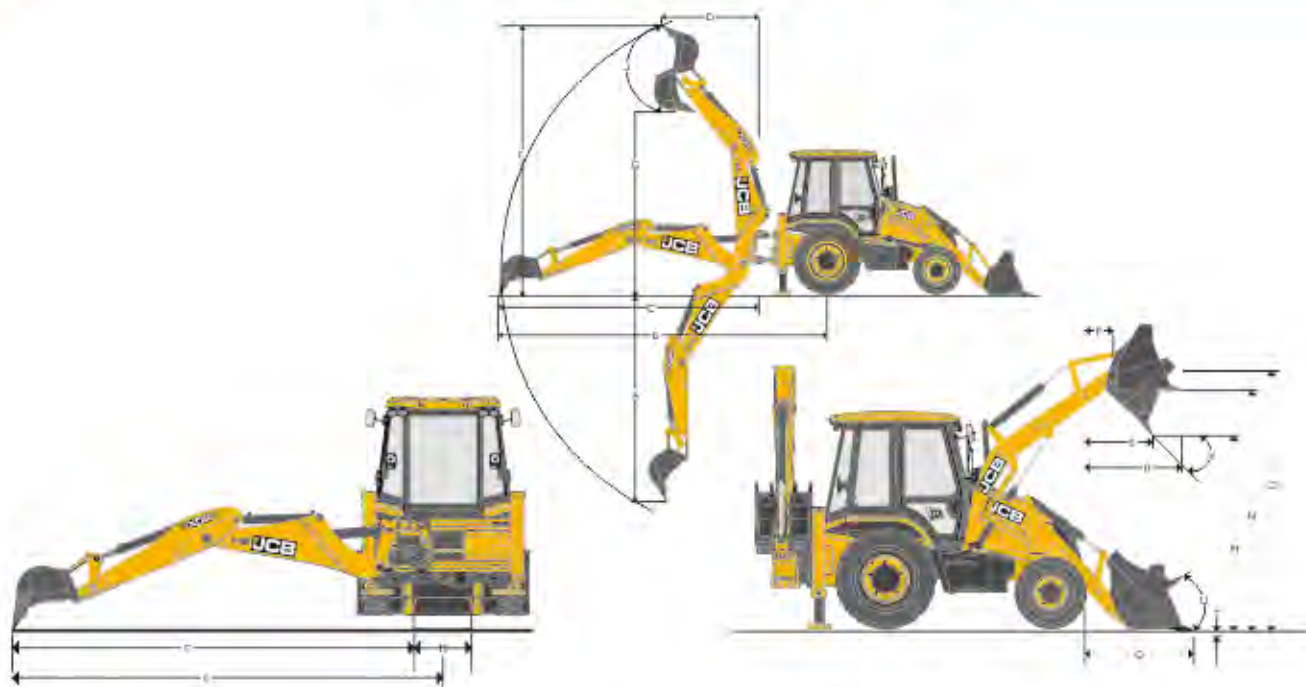


Geofencing

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



PERFORMANCE DIMENSIONS



EXCAVATOR PERFORMANCE

	3DX	3DX-Xtra
A Max. dig depth	4.77 m	5.05 m
B Reach-ground level to rear wheel centre	6.72 m	6.93 m
C Reach-ground level to slew centre	5.40 m	5.61 m
D Reach at full height to slew centre	2.74 m	2.65 m
E Side reach to centre line of machine	6.02 m	6.14 m
F Max. working height	5.97 m	6.01 m
G Max. load over height	4.18 m	4.35 m
H King post travel	1.06 m	1.06 m
J Bucket rotation - power	185°	185°
Bucket tear out force	5700 kgf	6324 kgf
Dipper tear out force	3010 kgf	3217 kgf
Lift capacity to bucket pivot at full reach (no bucket fitted) (SAE J311) (Data with standard dipper)	1490 kgs	1584 kgf
Standard bucket capacity	0.26 cu.m.	0.30 cu.m.

LOADER PERFORMANCE

	3DX	3DX-Xtra
M Dump height	2.74 m	2.93 m
N Load over height	3.23 m	3.37 m
O Pin height	3.45 m	3.64 m
P Pin forward reach	0.36 m	0.41 m
Q Reach at ground	1.42 m	1.60 m
R Max. reach at full height	1.20 m	1.24 m
S Reach at full height - Bucket dumped	0.83 m	0.93 m
T Below ground level dig depth	0.07 m	0.12 m
U Rollback at ground	45°	43°
V Dump angle	43°	41°
Shovel break-out force	6010 kgf	6270 kgf
Loader arm break-out force	5300 kgf	5100 kgf
Pay load	1800 kgf	1800 kgf
Standard shovel	1.1 cu.m. G.P. Shovel	1.1 cu.m. G.P. Shovel

STATIC DIMENSIONS



	3DX	3DX-Xtra
A Overall length	5.90 m	6.10 m
B Wheelbase	2.17 m	2.17 m
C Slew centre to rear axle centre	1.32 m	1.32 m
D Minimum ground clearance	0.36 m	0.36 m
E Slew ground clearance	0.53 m	0.53 m
G Height to top of cab	2.87 m	2.87 m
H Overall height	3.61 m	3.90 m
J Track width - Rear	1.73 m	1.73 m
K Track width - Front	1.86 m	1.86 m
L Width over bucket	2.35 m	2.35 m



ENGINE

JCB 448, Naturally Aspirated, 4 Cylinder, Water Cooled, Diesel Engine

Displacement : 4.8 litres

Gross Power : 56 KW (76 mhp) @ 2200 RPM

Max Torque : 310 nm (31.6 kgm) @ 1200 RPM

TRANSMISSION

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

- 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 times.
- 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 3.01:1.

AXLES

- **Rear** : Drive axle rigidly mounted, incorporates JCB Max-Trac torque proportioning differential, driven by short propshaft 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 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 operable foot pedals enable machine to maneuver 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 1750 p.s.i. (121 bar)
- 3DX - Hydraulic supply from main pump via priority valve.
- 3DX Xtra - Hydraulic supply from independent steering pump.

ELECTRICALS

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

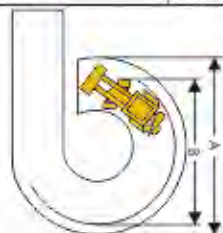
TYRES

Front : 9 x 16 - 16 PR

Rear : 16.9 x 28 - 12 PR (Industrial)

TURNING CIRCLE

Inner wheels braked	3DX	3DX-Xtra
A* Outside loader bucket	8.64 m	9.7 m
B Outside Wheels	6.20 m	6.20 m
Inner wheels not braked	3DX	3DX-Xtra
A* Outside loader bucket	11.6 m	11.0 m
B Outside Wheels	8.94 m	8.94 m



* Standard bucket in travel position

SPEED

Gear	Forward Km/hr	Reverse Km/hr
1st	6.1	6.1
2nd	9.8	9.8
3rd	21.0	Not Recommended
4th	40.0	Not Recommended

(Standard tyres, with zero torque converter slip @ 2200 RPM)

HYDRAULICS

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

	3DX	3DX-Xtra
System pressure (p.s.i.)	3300	3600
Pump flow (lpm) @ 2200 rpm	118	128

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

SHIPPING WEIGHT

3DX	3DX-Xtra
7460 kgs	7630 kgs

SERVICE CAPACITIES

Hydraulic system	130 Lt.
Fuel Tank	128 Lt.
Engine Coolant	16.5 Lt.
Engine Oil	15 Lt.
Transmission	17.5 Lt.
Rear Axle	21 Lt.

CABIN

- Tinted cab glasses provide excellent all-round visibility & sun protection.
- **Option** of servo operated Excavator controls for hassle free operations*.
- **Option** of air conditioning in cabin for rested operator in extreme weather conditions*.
- Auto shut off for fuel saving*.
- Plenty of legroom minimises fatigue.
- A fully adjustable suspension seat combined with ergonomically positioned controls and soft touch steering wheel.
- Cab provides easy 'walk through' two door access. Other features include seat belt, large convex rear view mirror, 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, fuel level, water temperature and mobile charger. Easily visible while both end operation.
- Audible 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.

* On 3DX-Xtra

LIVELINK

Advanced Telematics System that enables you to monitor and manage your machines remotely by providing information on:

Service : Routine maintenance information and alerts.

Operation : Health alerts and 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
- Ditch Cleaning Bucket
- Taper Ditching Bucket
- Square Hole Bucket
- Jaw Bucket
- Rock Breaker
- Ripper Tooth
- 4WD*
- JCB Telescopic Dipper*

Provides up to 1m of extra reach when compared with the standard dipper. Maximum dig depth, extended 5.77 m. Reach at ground from slew centre, extended 6.53 m. Maximum loadover height, extended 5.05m. Lift capacity at bucket pivot at maximum extended reach, no bucket fitted, 825 kg. Auxiliary valve block enable fitment of JCB Telescopic Dipper.

*Only on 3DX

- Smooth Ride System (SRS)
- Heavy duty Rear Tyres 14x25-20 PR
- Tipping Lever - Speed - 201° Bucket Rotation
- Tipping Lever Hook
- **Hydraulic Tool Circuit (HTC)**

Provision to hydraulically operate hand held tools viz. Road Breaker, Disc Cutter and Submersible Pump.

World's largest backhoe manufacturing facility & in-house world class engine manufacturing plant



India's best & largest dealer network



Dealer :



India's Largest Manufacturer of Construction Equipment

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