

3DX BACKHOE LOADER | DON'T SETTLE FOR LESS

eco
XCELLENCE



4WD Gross Engine Power 92hp (68kW) Standard GP Shovel Capacity 1.1cu.m Travel speed – 40kph (25mph)
4WD Gross Engine Power 76hp (56kW) Standard GP Shovel Capacity 1.1cu.m Travel speed – 36kph (22mph)



70 YEARS OF INNOVATION

A history of innovation

We've been innovating since the day one, and we've always cultivated a uniquely fearless approach to design. The constant innovation for more than 70 years and feedback from over million customers has led JCB to provide the world's best backhoe loader range.

This time JCB is introducing a breakthrough range of ecoXcellence backhoe loaders, designed to give you the best performance in every aspect, this range is perfect for all kind of applications and best suited for every construction site.

Most economical in fuel efficiency
& maintenance cost

eco

XCELLENCE

Productivity & performance

Reliability & durability

Innovation & technology

Operator comfort

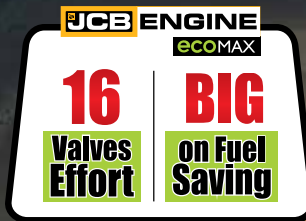


*Figure depicts number of backhoe loaders running worldwide.

Big on fuel saving. High on performance.

World-class, fuel efficient BSIII engine. Designed with 16 valve technology for optimum combustion of fuel. Besides big savings on fuel, it promises a longer life with minimal downtime. Truly JCB has pioneered an era of engineering excellence.

Proven JCB ecoMAX engines



Fuel Efficient



Reliable



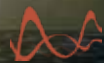
Low Maintenance Cost



Long Life



High Power



Low Noise & Vibration

COST OF OWNERSHIP & EFFICIENCY

Cooled EGR engine & independent steering pump

- 10% Improved fuel efficiency
- 30% Reduction in scheduled maintenance cost

More efficient hydraulic system



*T&C Apply

QUALITY, RELIABILITY & DURABILITY

The latest ecoexcellence range of backhoe loaders are designed for hardwork with economy

They're made using only the very finest materials and processes, which are tested, tried and proven to excel. They're also protected from the inevitable rigorous life of the site.

The steering ram on these backhoes are well protected from damages that occur while loading, because it's mounted behind the front axle.

To protect boom and dipper hoses from the perils of trenchwork, we've enclosed them inside the rear structures of the machine.

The new 10 bolt axle design enhances the axle-wheel disk reliability by manifold.



10 Rear Wheel Bolts



Improved Pins and Bushes



Long Life Boom Decal



World-class in-house manufacturing

Engine, transmission, front and rear axles / chassis, boom, dipper

BUILT TO LAST

For added rigidity – and to protect hoses from damage - a 3DX has flat plate-depressed loader arms, while cat tail welds reduce stress concentrations.

The single-piece composite cab roof on the backhoes is also rustproof and has moulded water channels.

JCB's robot welded single-piece chassis maximises strength.

Tested to the limits

All the materials with which we construct our backhoe loaders are critically tested to the very maximum. By exposing those materials to extreme temperatures, chemicals, salt, oil and light, we know they'll survive the most hostile conditions.

The chassis of JCB 3DX is tested for 1 million+ cycles on a shank test bench, with the heavyweight axles designed to withstand massive shock loads.

The rear axle alone has a static load rating of 25,000 kg and a dynamic load rating of 12,500 kg.



Highest resale value



PRODUCTIVITY & PERFORMANCE

Finish your work ahead of schedule with an incredible productivity

20%* lower fuel consumption

25%* more work per litre

Highest digging force

Best performance in all strata

Faster excavation cycle time

Superior backhoe performance

High hydraulic system pressure and large size hydraulic cylinders allow far higher tear-out force enabling the machine to dig hard ensuring higher productivity.

Heavy duty JCB boom and dipper ensure 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 impregnates adjustable wear pads providing a stable work platform, which enhance the digging performance.

Narrow width boom and dipper provide excellent visibility.

Extra dig option provides 1 metre deeper dig depth on 3DX.



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XCELLENCE



*T&C Apply.

COMFORT & EASE OF USE

A comfortable operator is a productive operator

20%* more spacious & livable cabin.

Low heat & noise inside the cabin (only 84 db).

Music system as standard.

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.

CED coated painting for longer life.

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.



Servo control operation#

Superb manoeuvrability

Option of excavator end servo control for better productivity & smooth operation.



FM radio and music player with speakers



SECURITY & SERVICEABILITY

Ultimate ease of serviceability

At 100 hrs service, transmission axle oil change not required.

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

Filling & servicing from ground level.

Easy access to engine compartment.

Easy and best availability of parts.

- Hydraulic and diesel tanks, conveniently located on left and right side of the machine, ensuring ground-level filling and ease in replacement of hydraulic filter.
- 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.



LIVELINK



MAXIMISE UPTIME

MAXIMISE PRODUCTIVITY

OPTIMISE COST

MAXIMISE PROFITABILITY



VERSATILITY

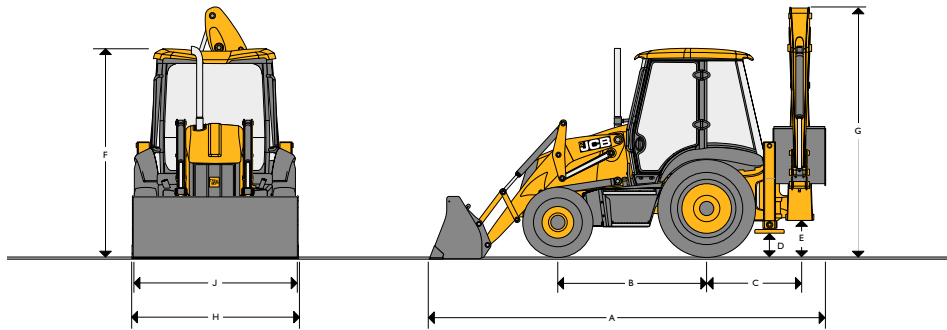
One machine, many applications

With the widest range of equipment in East Africa, versatile solutions have been developed to ease ground work for industries as diverse as construction, agriculture, waste handling, landscaping, defence and many others. The dynamic features of JCB backhoe loader range have transformed landscapes and built colossal structures with amazing ease and convenience.



STATIC DIMENSIONS

Loader end max. payload: 1850kg (4078lb) Max. lift height: 3.23metres (10.59ft)



		3DX / 3DX Plus	
A	Total travel length	m	5.96
B	Wheelbase	m	2.24
C	Slew centre to rear axle centre	m	1.32
D	Minimum ground clearance (stabiliser foot clearance)	m	0.36
F	Slew ground clearance	m	0.53
F	Cab roof height	m	2.87
G	Total travel clearance	m	3.61
H	Shovel width	m	2.23 (6-in-1 shovel) / 2.35 (GP shovel)
J	Rear frame width	m	2.24

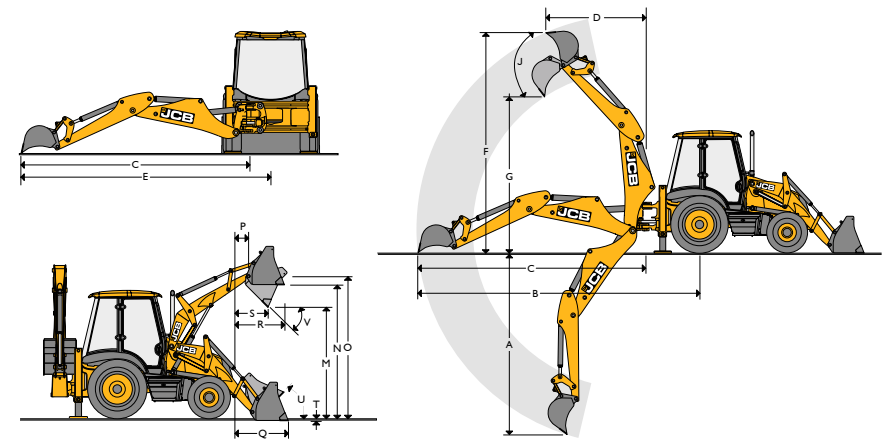
ENGINE

	3DX	3DX Plus
Model	JCB 448, 4 cylinder, water cooled, diesel	JCB 444, turbocharged, 4 cylinder, water cooled, diesel
No. of cylinders	4	4
Displacement	4.8 litres	4.4 litres
Gross power	56kW (76 hp) @ 2200rpm	68.6 kW (92hp) @ 2200rpm
Max torque	301 Nm (31.6 kgm) @ 1200rpm	408Nm (41.6 kgm) @ 1200rpm

SERVICE CAPACITIES

Cooling system	ltr	165
Fuel tank	ltr	128
Engine oil with filter	ltr	14
Gearbox with filter	ltr	16
Rear axle	ltr	21
Front axle	ltr	11
Hydraulic system incl. tank	ltr	130

EXCAVATOR/LOADER PERFORMANCE



Excavator performance		3DX / 3DX Plus	
A	Max dig depth	m	4.77
B	Reach-ground level to rear wheel centre	m	6.72
C	Reach-ground level to slew centre	m	5.40
D	Reach at full height to slew centre	m	2.74
F	Side reach to centre line of machine	m	6.02
F	Max. working height	m	5.97
G	Max. load over height	m	4.18
H	King post travel	m	1.06
J	Bucket rotation - power	degrees	185°
	Bucket tearout force	Kgf	5700
	Dipper tearout force	Kgf	3010
	Lift capacity to bucket Divot	Kgf	1 490
Loader performance			
M	Dump height	m	277
N	Load over height	m	3.23
O	Pin height	m	3.45
P	Pin forward reach	m	0.36
Q	Reach at ground	m	1 40
R	Max. reach at full height	m	1 15
S	Reach at full height - bucket dumped	m	078
T	Below ground level dig depth	m	010
U	Rollback at ground	degrees	450
V	Dump angle	degrees	120
	Shovel breakout force	Kgf	6500
	Loader arm breakout force	Kgf	4850
	Shovel capacity		1 0m3 (6-in-1 shovel) / 1 1m3 (GP shovel)

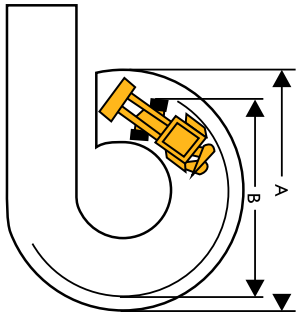
TRANSMISSION

JCB Synchro-shuttle transmission: It provides superb drive power in all conditions. It consists of a 4-speed, full synchromesh gearbox with integral torque convertor and electrically operated reversing power shuttle.

- Easy-to-use, column mounted electric reversing shuttle which can change machine direction while allowing operator to keep hands on the steering wheel leading to fast cycle times.
- The pedal 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 convertor stall ratio is 2.52:1 (4WD)

	3DX (4WD)
Manufacturer	JCB
Type	Synchroshuttle
Gears forward/reverse	4 forward/2 reverse
Shuttle control - F/R	Power shuttle
Travel speeds*	kph
Gear 1	7.3
Gear 2	11.7
Gear 3	22.0
Gear 4	40.0
*Speeds may vary dependant on tyre selection.	

TURNING CIRCLE



* Standard bucket in travel position

Inner wheels braked	
A Outside loader bucket	9.79m
B Outside wheels	7.21m
Inner wheels not braked	
A Outside loader bucket	10.91m
B Outside wheels	8.32m

STEERING	Front wheel full power hydrostatic system utilising the main hydraulic pump via a steering priority valve. In the event of engine failure, emergency steering is maintained (all models).
BRAKES	<p>Service: Hydraulically actuated dual line, self adjusting, oil immersed, multi-disc type on the rear axle, well protected from dirt, water etc. requiring no maintenance.</p> <p>Parking: Hand operated, disc brake on rear axle input disc.</p> <p>Brake pedal: Two independently operable foot pedals enable machine to manoeuvre in tight spaces. Pedals are linked together for normal use.</p> <p>2WD / 4WD: Electrical selection between 2WD / 4WD allows on-the-move changes.</p>
HYDRAULIC SYSTEM	<ul style="list-style-type: none"> • JCB vari-matic hydraulics • Main relief valve: 228bar • Unloader valve: 207bar • Pump type: 2 section displacement gear • Pump capacity: 3DX: 108 pm, 3DX Super: 123 lpm • Filtration through suction strainer and return line CB Filtermatic filter • During excavation the circuit automatically varies hydraulic power to match digging conditions for extra performance, control and power • Careful routing of hydraulic hoses and pipework guards against site damage and allows easy servicing
CAB	<ul style="list-style-type: none"> • Floor mats • Fully adjustable seat and soft touch steering wheel • ROPS & FOPS cab structure • 'Walk through' two door access • Seat belt, large convex rear view mirror; interior light front screen wiper, horn, hazard warning system, tool box • Instrumentation panel includes engine speed, engine hours, fuel level, water temperature gauge and 12v connection • 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.
AXLES	<p>Rear: Drive axle rigidly mounted, incorporates CB Max-Trac torque proportioning differential, driven by short propshaft from gear box.</p> <p>Front: 4WD, Steer axle, centrally pivoted with oscillation angle of 16°</p>
ELECTRICAL AND INSTRUMENTATION	<p>12 volt negative ground, utilising wiring and connectors meeting IP69 water ingress test standard. Central fuse panel.</p> <p>Battery: 130 A/hr Alternator: 90 amp standard. Front working lights: 2 fixed.</p> <p>Rear working lights: 2 fixed and 2 adjustable.</p>
TYRES	<p>Front: 12.5x18-12PR (4WD)</p> <p>Rear: 16.9x28-12PR (4WD)</p>
WEIGHT	<p>Shipping: 3DX3DX Plus: 7660kg</p> <p>Operating: 3DX3DX Plus: 7800kg</p>

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

About us

JCB is the world's leading manufacturer of earthmoving equipment.

In 1945, Joseph Cyril Bamford embarked on a journey of engineering brilliance, channelling his innovative spirit to redefine construction equipment. His visionary engineering skills led to the groundbreaking JCB Backhoe Loader in 1953, a game-changer that transformed the construction landscape. Fast forward to today, where JCB boasts a diverse fleet of over 300 cutting-edge machines spanning six continents, solidifying its position as the global leader in Backhoes and Telescopic Handlers.



Lord Bamford
Chairman, JCB Group

JCB Group across the globe



23 PLANTS	770⁺ DEALERS	2200⁺ OUTLETS	150⁺ COUNTRIES	15000⁺ EMPLOYEES
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Dealer's stamp:

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