

NEW

3DX / 3DX-XTRA | ecoXcellence Backhoe Loaders

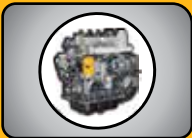
eco
XCELLENCE



Fuel Efficient



Highest Return
on Investment



Longlife JCB
ecoMAX Engine



Spacious
Cabin



Music
System



AC
Cool Comfort



Servo
Controls



70 YEARS OF INNOVATION

A history of innovation

We've been innovating since day one, and we've always cultivated a uniquely fearless approach to design. JCB pioneered the backhoe loader concept in 1953, introducing many innovative features to the market. Constant innovation for more than 70 years and feedback from over 6,000,000 customers has led JCB to provide the world's best backhoe loader range.

And, in a rapidly changing world, our new range of ecoXcellence backhoe loaders represent the latest in backhoe innovation. Designed to give you the best performance in every aspect, it's 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



6,000,000*
BACKHOES & GROWING
WE LEAD LIKE THAT!

*Figure depicts number of backhoe loaders running worldwide.

Big on fuel saving. High on performance.

India's leading manufacturer of construction equipment offers an indigenous, world-class, fuel efficient BSIII engine. Designed with 16 valve technology for optimum combustion of fuel, it has more than 4,00,000 satisfied customers worldwide. 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 successfully completed 2.5 million hrs in India!

JCB ENGINE
ecoMAX

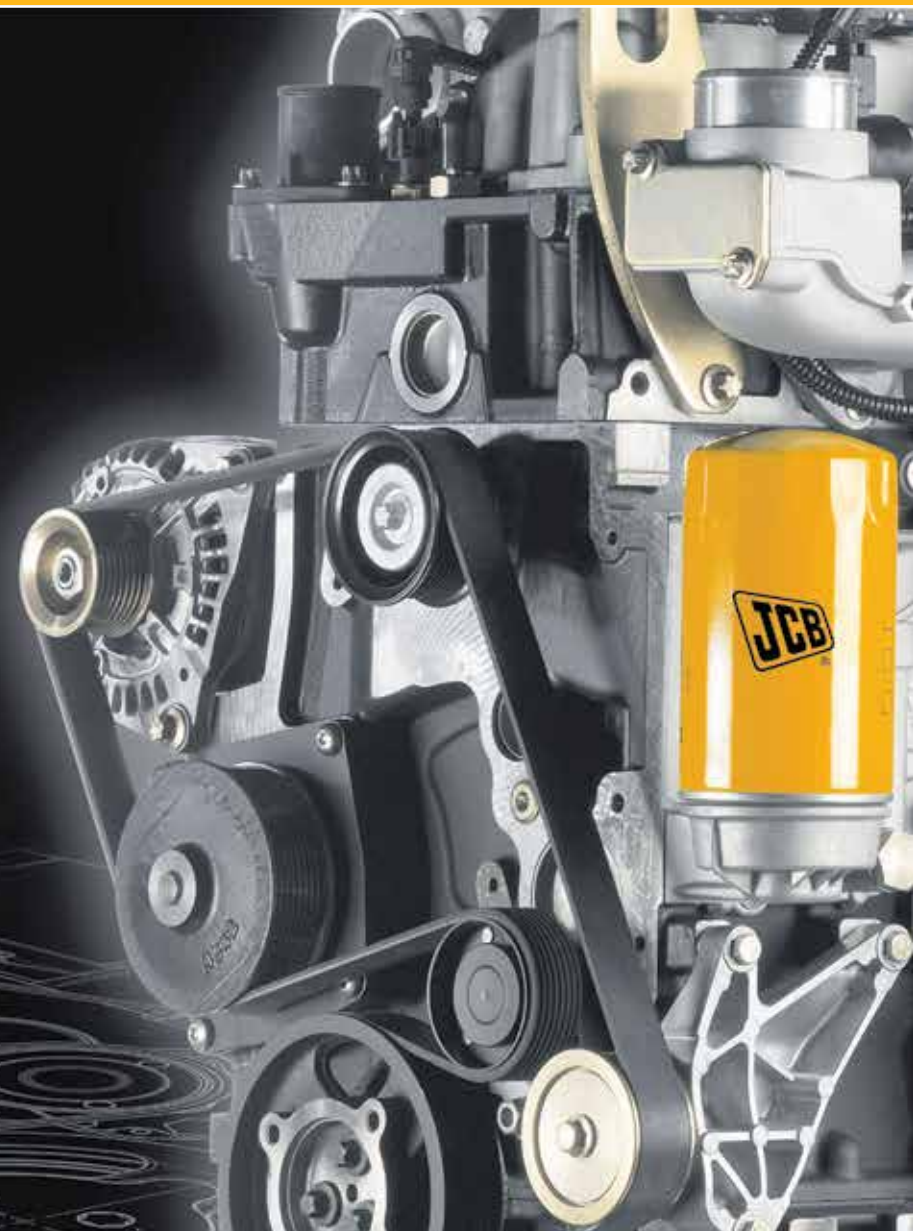
16
Valves Effort

BIG
on Fuel Saving

Excellence in Engine Technology

4,00,000+

JCB ecoMAX Engines
running successfully
worldwide



Fuel Efficient



Low
Maintenance
Cost



High
Power



Reliable



Long
Life



Low Noise
& Vibration

COST OF OWNERSHIP & EFFICIENCY

Cooled EGR engine & independent steering pump

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

Most efficient hydraulic system

- Power management system (PMAx)*
*On 3DX-Xtra ecoXcellence



QUALITY, RELIABILITY & DURABILITY

The latest ecoXcellence 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 rigours 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 or 3DX-Xtra 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 and 3DX-Xtra are 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, deepest dig depth in the industry

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.



eco
XCELLENCE



*T&C Apply.

More load, dig/doze, productivity

10% Improved fuel efficiency

Best-in-class breakout force

Durable & reliable structure

High torque JCB engine

Powerful loader performance

Increased pin height on 3DX & high dump height on 3DX-Xtra provide ease of loading in high body trucks.

'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.

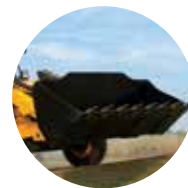
New improved shovel profile and 4 ram parallel lift geometry for load retention and clear visibility. Load spotting is quicker due to superb dump height and reach.

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 un-hindered view of the shovel while loading and site clearance operation.



eco
XCELLENCE



New improved shovel profile for better material retention



Improved pin height on loader arm



COMFORT & EASE OF USE

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).
- 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 (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.



Servo control operation#
Superb manoeuvrability

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

#Only on 3DX-Xtra ecoXcellence



FM radio and music player with speakers



*T&C Apply.

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.

650+ outlets with trained engineers.

- 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.



JCB Livelink - Stay connected 24x7

Now be assured of your JCB backhoe loader's service, operation and security 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; the reminder helps you plan your work better.



Machine data backup

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



Critical machine health alerts

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

- Low engine oil pressure
- Water in fuel
- Low fuel level



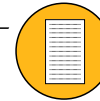
OPERATION



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 utilisation report

Maintains machine usage record and helps you analyse & optimise utilisation of machine.



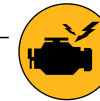
Fuel level information

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 to keep a track of your machine's location, protection and movement.

GPS tracking

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



Operating hours

Lets you control the number of hours for which your machine will work.



Possible intrusion / 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.



Get livelink on your old JCB machine*

*Can be installed in 2 hrs on selected Backhoe Loader models only.

VERSATILITY

One machine, many applications

With the widest range of equipment in India, 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.



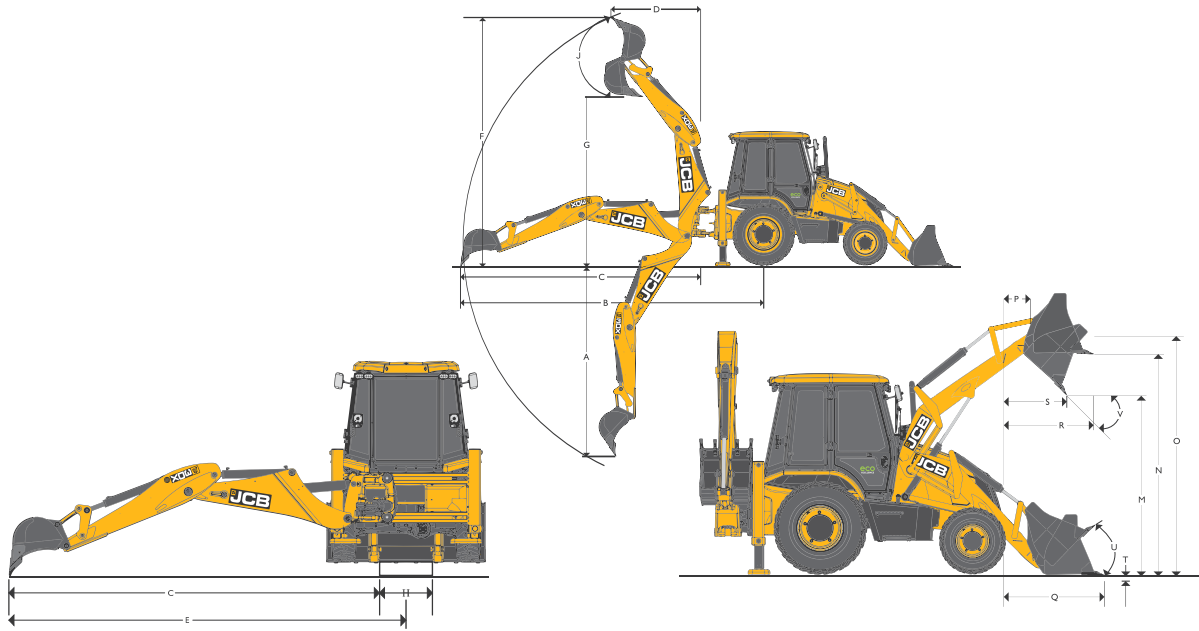
NEW



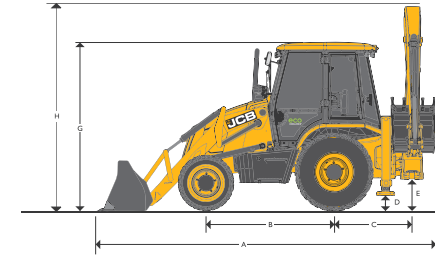
JCB 3DX / 3DX -XTRA | SPECIFICATION

The Most Fuel Efficient Backhoe Loader on Earth

PERFORMANCE DIMENSIONS



STATIC DIMENSIONS



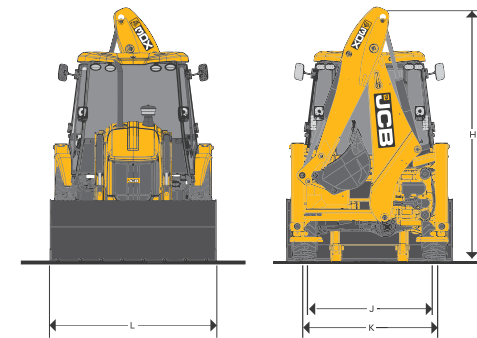
			3DX	3DX-Xtra
A	Overall length	m (ft-in)	5.90 (19-4)	6.10 (20-0)
B	Wheelbase	m (ft-in)	2.17 (7-1)	2.17 (7-1)
C	Slew centre to rear axle centre	m (ft-in)	1.32 (4-4)	1.32 (4-4)
D	Minimum ground clearance	m (ft-in)	0.36 (1-2)	0.36 (1-2)
E	Slew ground clearance	m (ft-in)	0.53 (1-9)	0.53 (1-9)
G	Height to top of cab	m (ft-in)	2.87 (9-5)	2.87 (9-5)
H	Overall height	m (ft-in)	3.61 (11-10)	3.90 (11-10)
J	Track width - Rear	m (ft-in)	1.73 (5-8)	1.73 (5-8)
K	Track width - Front	m (ft-in)	1.86 (6-1)	1.86 (6-1)
L	Width over bucket	m (ft-in)	2.35 (7-9)	2.35 (7-9)

EXCAVATOR PERFORMANCE

			3DX	3DX-Xtra
A	Max. dig depth	m (ft-in)	4.77 (15-8)	5.05 (16-7)
B	Reach-ground level to rear wheel centre	m (ft-in)	6.72 (22-1)	6.93 (22-9)
C	Reach-ground level to slew centre	m (ft-in)	5.40 (17-9)	5.61 (18-5)
D	Reach at full height to slew centre	m (ft-in)	2.74 (8-12)	2.65 (8-8)
E	Side reach to centre line of machine	m (ft-in)	6.02 (19-9)	6.14 (20-2)
F	Max. working height	m (ft-in)	5.97 (19-7)	6.01 (19-9)
G	Max. load over height	m (ft-in)	4.18 (13-9)	4.35 (14-3)
H	King post travel	m (ft-in)	1.06 (3-6)	1.06 (3-6)
J	Bucket rotation - Power	deg	185	185
	Bucket tear out force	kgf	5,700	6,324
	Dipper tear out force	kgf	3,010	3,217
	Lift capacity to bucket pivot at full reach (no bucket fitted) (SAE J31) (Data with standard dipper)	kgs	1,490	1,584
	Standard bucket capacity	cum (cu.ft)	0.26 (9.18)	0.30 (10.6)
	Standard bucket width	m (ft-in)	0.79 (2-7)	0.82 (2-8)

LOADER PERFORMANCE

			3DX	3DX-Xtra
M	Dump height	m (ft-in)	2.74 (8-12)	2.93 (9-7)
N	Load over height	m (ft-in)	3.32 (10-11)	3.37 (11-1)
O	Pin height	m (ft-in)	3.54 (11-7)	3.64 (11-11)
P	Pin forward reach	m (ft-in)	0.25 (0-10)	0.41 (1-4)
Q	Reach at ground	m (ft-in)	1.42 (4-8)	1.60 (5-3)
R	Max. reach at full height	m (ft-in)	1.15 (3-9)	1.24 (4-1)
S	Reach at full height - Bucket dumped	m (ft-in)	0.78 (2-7)	0.93 (3-1)
T	Below ground level dig depth	m (ft-in)	0.07 (0-3)	0.12 (0-5)
U	Rollback at ground	deg	45	43
V	Dump angle	kgf	38	41
	Shovel break out force	kgf	6,010	6,270
	Loader arm break out force	kgf	5,300	5,100
	Payload	kgf	1,800	1,800
	Standard shovel	cum (cu.ft)	1.1 (38.85)	1.1 (38.85)



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** : 305 nm (31.1 kgm) @ 1100 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 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 3.01:1.

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 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 1750 p.s.i. (121 bar)
- Hydraulic supply from independent steering pump.

ELECTRICALS

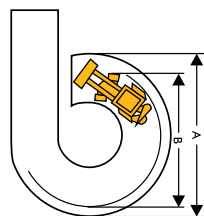
130 Ampere-hour 12 Volts battery system with alternator and full road lighting.

TYRES

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

TURNING CIRCLE

		3DX	3DX-Xtra
Inner wheels braked			
A* Outside loader bucket	m (ft-in)	8.64 (28-4)	9.7 (31-10)
B Outside wheels	m (ft-in)	6.20 (20-4)	6.20 (20-4)
Inner wheels braked			
A* Outside loader bucket	m (ft-in)	11.6 (38-1)	11.0 (36-1)
B Outside wheels	m (ft-in)	8.94 (29-4)	8.94 (29-4)



* 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

	System	Service
Hydraulic system	120	70
Fuel tank	128	-
Engine coolant	16.5	15
Engine oil	15	15
Transmission	17.5	17.5
Rear axle	20	20

CABIN

- Tinted cab glasses provide excellent all round visibility & sun protection.
- Music system as standard fitment.
- **Option** of servo operated excavator controls for hassle free operations*.
- **Option** of air conditioning in cabin for rested operator in hot 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.
- 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.

* On 3DX-Xtra ecoXcellence

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 mm, 0.09 mm, 0.12 mm, 0.18 mm
- 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 5.05 m. 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 ecoXcellence

- Smooth Ride System (SRS)
- Heavy duty rear tyres 14x25
- Tipping lever - Speed : 201° bucket rotation
- Tipping lever hook
- **Hydraulic Tool Circuit (HTC)**

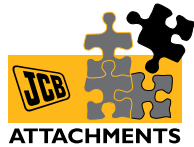
Provision to hydraulically operate hand held tools viz. rock breaker, disc cutter and submersible pump.

Dealer's Stamp:

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



India's best & largest dealer network



Download the app & **GROW YOUR NETWORK, GET EXTRA BUSINESS.**





www.jcbindia.com

JCB INDIA LIMITED 23/7 Mathura Road, Ballabgarh - 121 004 Haryana, India. Fax: 91 129 2309050

For more information SMS "JCB" to **56767** or call our toll free no. **1800-2000-522** E-mail: delhi.marketing@jcb.com

Follow us:

