

BACKHOE LOADER | 3DX RANGE

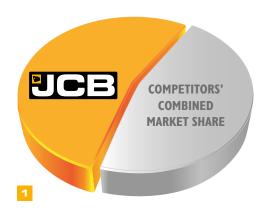
3DX Super (4WD) Gross Engine Power: 92hp Standard GP Shovel Capacity: 1.1m³ Travel speed: 40kph (25mph) **3DX (2WD)** Gross Engine Power: 76hp Standard GP Shovel Capacity: 1.1m³ Travel speed: 36kph (22mph)



THE WORLD'S NUMBER ONE

JCB PIONEERED THE BACKHOE LOADER IN 1953. SINCE THEN, WE'VE REMAINED THE MARKET LEADER, INVENTING FEATURES LIKE 4WD AND THE SIDE-SHIFT CHASSIS. AS YOU'D EXPECT, THE 3DX CONTINUES THIS TRADITION, DELIVERING CLASS-LEADING PRODUCTIVITY, COMFORT AND FUEL SAVINGS.





Ultimate versatility

- 1 As the market leader, JCB sells over half of all the world's backhoe loaders.
- A JCB backhoe is the most versatile construction machine you can buy. Combining the key benefits of both loading shovels and excavators, it's effectively two machines in one package.
- A JCB backhoe is designed to drive around sites, drive between sites, and then drive home at the end of the day.





BUILT TO LAST

THE JCB 3DX IS THOROUGHLY
STRESS TESTED AND CLIMATE
TESTED. IT'S ALSO BUILT USING
ONLY THE FINEST COMPONENTS,
WHICH ENSURES THAT IT'S
DURABLE ENOUGH TO CARRY
OUT THE HARDEST TASKS.

Ultimate performance

- JCB 3DX uses JCB's own special backhoe loader driveline. This is a popular, trusted, wellproven unit that works in perfect harmony with our machines for ultimate uncompromised performance.
- We check every 3DX cab for leaks so you can be sure of a dry, dust free cab.
- Because the JCB 3DX is used by customers all over the world, we've tested it rigorously in climates ranging from -20°C to 50°C. Its JCB DIESELMAX engine has excellent fuel filtration to handle varying fuel quality.
- We've stress tested the 3DX across 1.2 million cycles of the hardest digging and loading applications. As a result, every part of the machine can perform the very toughest duties.



PRODUCTIVITY AND PERFORMANCE: EXCAVATOR

POWERFUL HYDRAULICS,
HUGE TEAROUT FORCES,
COMMANDING VISIBILITY
AND PERFECTLY MATCHED
COMPONENTRY, THE
JCB 3DX'S EXCAVATOR
ARM IS DESIGNED TO
PROVIDE UNSURPASSED
PRODUCTIVITY, SPEED
AND CONTROL.

Excavating performance

- We use a high pressure efficient hydraulic system with large hydraulic cylinders. This provides the 3DX with big tearout forces perfect for hard ground and arduous digging.
- With a 5700 kgf bucket tearout, the 3DX is supremely productive, even in the hardest applications.
- The boom and dipper are perfectly matched, meaning you can dig right up to the bottom of the boom reducing repositioning of the machine and providing better visibility.
- 4 A 128-litre fuel tank allows all-day working without refuelling.









PRODUCTIVITY AND PERFORMANCE: LOADER

THE FRONT END OF THE JCB 3DX DELIVERS UNSURPASSED PRODUCTIVITY, SPEED AND CONTROL, COURTESY OF A HEAVY-DUTY LOADER ARM, SELF LEVELLING GEOMETRY AND GREAT VISIBILITY. ALSO UP FRONT IS OUR INNOVATIVE HIGH TORQUE JCB DIESELMAX ENGINE.

Loading performance

- JCB's cutting edge DIESELMAX engine was designed from scratch to produce superb performance, high torque levels and ultimate productivity.
- With tens of thousands of units in service around the world, carrying out many applications, the DIESELMAX engine is renowned for its reliability.
- 4-ram parallel lift loader geometry means clear visibility, excellent load retention, superb dump height, long reach, and fast truck loading.
- 1 To make visibility even better, the 3DX has a sloping bonnet line, which provides an unhindered view of the shovel for loading and site clearance.
- A D-shaped, durable, heavy-duty design means the 3DX's loader arms don't twist or flex. As a result, there's a formidable shovel breakout of 6500 kgf, as well as excellent lift capacity.











COST OF OWNERSHIP

JCB'S LEGENDARY BUILD QUALITY AND GLOBAL BRAND HELP KEEP CUSTOMER DEMAND AND MACHINE RESIDUALS HIGH. AND THE BENEFITS **OF OWNING A JCB 3DX DON'T STOP THERE.**





Saving money

- loader's biggest costs. That's why we've designed the 3DX to provide a combination of increased productivity and reduced fuel consumption, saving you money.
- We've used only proven, reliable components on the JCB 3DX to maximise uptime and ensure that your machine spends as much time as possible earning you money.
- By extending service intervals for fluids and filters, we've brought down cost of ownership even more.





EASE OF MAINTENANCE

OUR MACHINES MAY BE EXTREMELY DURABLE BUT EVEN A JCB NEEDS ROUTINE MAINTENANCE. HOWEVER WE'VE DESIGNED THE 3DX TO BE EASILY SERVICEABLE, BOTH TO MAXIMISE UPTIME AND TO MAKE LIFE EASIER.

Routine maintenance

■ A full opening gas-assisted bonnet provides easy engine access, and you can open it up with just one lever.

Every daily check can be done at ground level from one side of the machine.

- The 3DX's loader arm mounting pivots and excavator end are machined so they always align correctly. Meanwhile, our specially designed brass bushes provide a long wear-free life.
- To protect the engine and optimise performance on the 3DX, we've fitted large fuel pre-filters and a water separator; this setup helps keep contaminates out of the fuel system. We also have an air filter which is regularly cleaned by the engines own exhaust system.
- 4 Hydraulic oil level is clearly shown via a side mounted site gauge. You can fill the hydraulic and diesel tanks easily at ground level.

	SERVICE INTERVALS
Engine oil	Every 500 hours
Engine oil filter	Every 500 hours
Hydraulic filter	Every 500 hours
Hydraulic oil	Every 2000 hours
Transmission filter	Every 500 hours
Transmission oil	Every 000 hours
Axle oil	Every 000 hours











THE PERFECT PLACE TO WORK

A COMFORTABLE OPERATOR IS A PRODUCTIVE OPERATOR. WITH THAT IN MIND, WE'VE DESIGNED THE JCB 3DX TO INCORPORATE HIGH COMFORT LEVELS INTO ITS ERGONOMIC WORKING ENVIRONMENT.





Comfortable operation

1 The 3DX's cab is large and easy to access, with plenty of leg room in every operating position.

The 3DX has ergonomically-placed controls and a comfy seat. The result? A comfortable, alert, productive operator.

- The braking system provides high performance with minimum effort for fatigue free operation and excellent control.
- A high-power face fan increases comfort in hot environments.

The 3DX is well-ventilated via partial or full opening on both front and rear side windows.

- 4 We've made the electrical system dust-andwaterproof for trouble-free long-life performance.
- Our dedicated in-cab storage is safe and convenient.









JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.





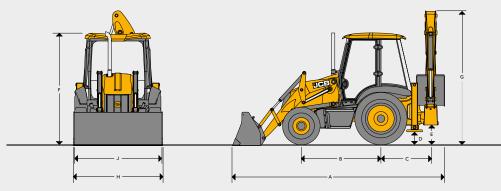
JCB Premiercover offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.



The global network of JCB Parts Centres is another model of efficiency; with 15 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.

STATIC DIMENSIONS

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

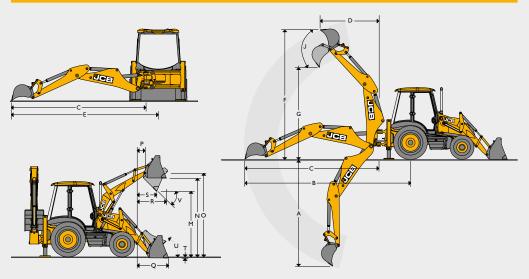


Α	Total travel length	m	5.96
В	Wheelbase	m	2.24
С	Slew centre to rear axle centre	m	1.32
D	Minimum ground clearance (stabiliser foot clearance)	m	0.36
Е	Slew ground clearance	m	0.53
F	Cab roof height	m	2.87
G	Total travel clearance	m	3.61
Н	Shovel width	m	2.23 (6-in-1 shovel) / 2.35 (GP shovel)
J	Rear frame width	m	2.24

ENGINE		
	3DX	3DX Super
Model	JCB 448, naturally aspirated, 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 (76hp) @ 2200rpm	68.6 kW (92hp) @ 2200rpm
Max torque	301Nm (31.6 kgm) @ 1200rpm	408Nm (41.6 kgm) @ 1200rpm

SERVICE CAPACITIES		
Cooling system	ltr	16.5
Fuel tank	ltr	128
Engine oil with filter	ltr	14
Gearbox with filter	ltr	16
Rear axle	ltr	21
Front axle (4WD only)	ltr	П
Hydraulic system incl. tank	ltr	130

EXCAVATOR/LOADER PERFORMANCE



Excavator performance 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 E 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 pivot kg 1490 Loader performance m 2.72 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	
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 E 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 pivot kg 1490 Loader performance M Dump height m 2.72 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	
C Reach-ground level to slew centre m 5.40 D Reach at full height to slew centre m 2.74 E 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 pivot kg 1490 Loader performance M Dump height m 2.72 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	
D Reach at full height to slew centre m 2.74 E 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 pivot kg 1490 Loader performance M Dump height m 2.72 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	
E 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 pivot kg 1490 Loader performance M Dump height m 2.72 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	
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 pivot kg 1490 Loader performance M Dump height m 2.72 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	
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 pivot kg 1490 Loader performance m 2.72 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	
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 pivot kg 1490 Loader performance W Dump height m 2.72 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	
J Bucket rotation – power degrees 185°	
Bucket tearout force kgf 5700 Dipper tearout force kgf 3010 Lift capacity to bucket pivot kg 1490 Loader performance M Dump height m 2.72 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	
Dipper tearout force	
Lift capacity to bucket pivot kg 1490 Loader performance 1490 M Dump height m 2.72 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	
Loader performance m 2.72 M Dump height m 2.72 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	
M Dump height m 2.72 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	
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	
O Pin height m 3.45 P Pin forward reach m 0.36 Q Reach at ground m 1.40	
P Pin forward reach m 0.36 Q Reach at ground m 1.40	
Q Reach at ground m 1.40	
R Max. reach at full height m 1.15	
S Reach at full height – bucket dumped m 0.78	
T Below ground level dig depth m 0.10	
U Rollback at ground degrees 45°	
V Dump angle degrees 43°	
Shovel breakout force kgf 6500	
Loader arm breakout force kgf 4850	
Shovel capacity 1.0m³ (6-in-1 shovel) / 1.1m³ (GP shove	

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.

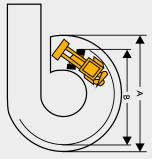
A Outside loader bucket

B Outside wheels

• Torque convertor stall ratio is 2.52:1 (4WD)

	3DX (2WD)	3DX Super (4WD)			
Manufacturer	JCB	JCB			
Туре	Synchroshuttle	Synchroshuttle			
Gears forward/reverse	4 forward / 4 reverse	4 forward / 4 reverse			
Shuttle control – F/R	Power shuttle	Power shuttle			
Travel speeds*	kph	kph			
Gear I	7.3	7.3			
Gear 2	11.7	11.7			
Gear 3	22.0	22.0			
Gear 4	36.0	40.0			
*Speeds may vary dependant on tyre selection.					

TURNING CIRCLE



* Standard	bucket i	n trave	positio

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

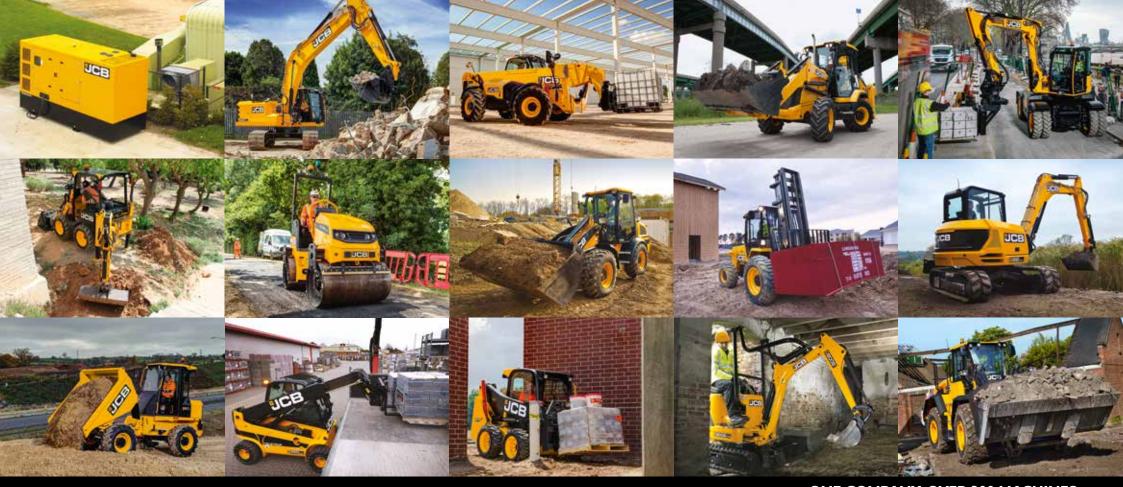
10.91m

8.32m

BACKHOE LOADER 3DX RANGE

		310			

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	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. Parking: Hand operated, disc brake on rear axle input disc. Brake pedal: Two independently operable foot pedals enable machine to manoeuvre in tight spaces. Pedals are linked together for normal use. 2WD / 4WD: Electrical selection between 2WD / 4WD allows on-the-move changes.		
HYDRAULIC SYSTEM	• JCB vari-matic hydraulics • Main relief valve: 228bar • Unloader valve: 207bar • Pump type: 2 section displacement gear • Pump capacity: 3DX 118 lpm, 3DX Super 123 lpm • Filtration through suction strainer and return line JCB 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		
САВ	• Floormats • Fully adjustable seat and soft touch steering wheel • 'Walk through' two door access • Seat belt, large convex rear view mirror, interior light front screen wiper, hom, 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	Rear: Drive axle rigidly mounted, incorporates JCB Max-Trac torque proportioning differential, driven by short propshaft from gear box. Front: 4WD, Steer axle, centrally pivoted with oscillation angle of 16° (3DX Super only).		
ELECTRICAL AND INSTRUMENTATION	12 volt negative ground, utilising wiring and connectors meeting IP69 water ingress test standard. Central fuse panel. Battery: 130 A/hr Alternator: 90 amp standard. Front working lights: 2 fixed. Rear working lights: 2 fixed and 2 adjustable.		
TYRES	Front: 12.5x18-12PR (3DX Super), 9x16-16PR (3DX) Rear: 16.9x28-12PR		
WEIGHT	Shipping: 3DX: 7460kg 3DX Super: 7660kg Operating: 3DX: 7600kg 3DX Super: 7800kg		



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

BACKHOE LOADER 3DX RANGE

3DX Super (4WD) Gross Engine Power: 92hp Standard GP Shovel Capacity: I.Im³ Travel speed: 40kph (25mph) **3DX (2WD)** Gross Engine Power: 76hp Standard GP Shovel Capacity: I.Im³ Travel speed: 36kph (22mph)

JCB Sales Asia Pacific Pte Ltd, 50 Collyer Quay, OUE Bayfront, #04-04 Singapore 049321. Tel: +65 6690 4222 Email: enquiries.asia@jcb.com

Download the very latest information on this product range at www.jcb.com

©2020 JCB Sales. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB Sales. All references in this publication to operating weights, sizes, capacities and other performance measurements are provided for guidance only and may vary dependant upon the exact specification of machine. They should not therefore be relied upon in relation to suitability for a particular application. Guidance and advice should always be sought from your JCB Dealer. JCB reserves the right to change specifications without notice. Illustrations and specifications shown may include optional equipment and accessories. All images are correct at time of print. The JCB logo is a registered trademark of J. C Bamford Excavators Ltd.

