



WHEEL LOADER | 432ZX PLUS

Gross engine power: 112kw (150hp) Operating weight: 12,430kg Full turn tipping load: 7,300 kg Standard shovel capacity: 3.4m³



STRENGTH AND DURABILITY.

THE JCB 432ZX PLUS IS DESIGNED TO WITHSTAND ALL THE HARD WORK YOU CAN THROW AT IT. WE'VE STRESS AND CLIMATE TESTED IT, AND FITTED ONLY PREMIUM COMPONENTS TO GUARANTEE DURABILITY.

Because industry is tough, we stress test to emulate the toughest digging and dump situations. That means all structures can perform even the most arduous duties over thousands of hours.



Extreme testing, extreme durability.

1 Because JCB 432ZX PLUS' are used by customers all over the world, we've tested it rigorously in climates ranging from -20°C to 50°C. Its T2 Cummins engine has excellent filtration and robust fuelling to handle varying fuel quality.

By using advanced manufacturing and assembly processes, we produce only the very highest precision quality components.



2 IP69 & IP67 electrics keep out water and dust.

3 Our durable centre joint features twin taper roller bearings as well as heavy-duty pin and bush assembly. To protect steer rams and hoses from damage, they're positioned high up above the robust centre joint.

4 The 432ZX PLUS is equipped with tried and proven ZF transmission and Graziano axles. The rear counterweight and cast quarter pillars protect the cooling pack and the back end of the machine from damage.



POWER AND PRODUCTIVITY.

TO MAKE SURE THE JCB 432ZX PLUS IS AS PRODUCTIVE AS POSSIBLE, WE'VE FITTED IT WITH A SUPREMELY EFFICIENT, TRIED AND TRUSTED POWERTRAIN AND LOADER ARM.

We use a simple and very reliable hydraulic circuit that comprises twin gear pumps and an unloader valve block. The versatile optional three spool valve block means you can use attachments like grabs and sweepers. A standard float function means grading and levelling is simplified.

Where power meets efficiency.

- 1 The 432ZX PLUS high lift loader arm gives it the ability to dump in the centre of a wagon to help give quick and even loading.
- 2 A ZF fully automatic 4-speed 4WD powershift transmission automatically senses the perfect gear for any application. For increased traction, there's also a manual gear kickdown function on the loader lever.
- 3 The 432ZX PLUS has axles with limited slip differentials fitted as standard to provide maximum traction in any ground conditions.



OPERATOR SAFETY AND COMFORT.

TO GET THE MOST FROM YOUR MACHINE, YOU NEED TO GET THE MOST OUT OF YOUR OPERATOR. THAT'S WHY WE'VE DESIGNED THE 432ZX PLUS TO BE A SAFE AND COMFORTABLE PLACE TO WORK.

The perfect place to work.

- 1 The 432ZX PLUS cab is fully compliant with ROPS/FOPS standards.
- 2 We've fitted a heater, as well as sliding windows on both sides of the cab so that operators stay as comfortable, alert and, therefore, productive as possible.
- 3 The 432ZX PLUS' servo loader controls are extremely precise, and provide smooth, low effort fatigue-free operation.
- 4 Large inclined steps and ergonomic grab handles make cab access safe and easy.



PRODUCTIVITY UP, DOWNTIME DOWN.

WE UNDERSTAND THAT YOU NEED YOUR MACHINERY TO SPEND MOST OF ITS WORKING LIFE IN SERVICE, NOT BEING SERVICED. THAT'S WHY WE'VE BUILT THE 432ZX PLUS TO GIVE YOU MAXIMUM PRODUCTIVE UPTIME.

The 432ZX PLUS has long oil and filter change intervals to keep maintenance to a minimum.

1 Servicing, daily checks and radiator access couldn't be simpler, via fully opening gull-wing type doors.

Remote pressure test points are quick, easy and convenient.

The hydraulic valve block is readily accessible through front access panels.

e Cab roof rails make glass cleaning and beacon mounting safe and easy for the operator.



4 Ground level daily checks and eye level fluid gauges provide vital information quick and easily.

5 Our single face cooling pack makes it simple to clean and maintain the cooling matrix.



The 432ZX PLUS has oil-immersed disc brakes for a long, virtually maintenance-free lifespan.





LIVELINK TELEMATICS.

LiveLink telematics helps you monitor and manage your machine fleet remotely anywhere in the world by radically improving the efficiency, productivity, safety and security of all your JCB and non JCB machine fleet.

MACHINE EFFICIENCY: Keep track of your machine's daily activity with regular performance reports which provide information about idle time, location, machine health, error codes for diagnostics, engine utilisation by power band, safety alerts, and fuel consumption. JCB LiveLink ensures machines are kept running for maximum uptime and return on investment.

MACHINE RELIABILITY: Accurate hours and service alerts improve maintenance planning to optimise machine productivity.

MACHINE SECURITY: LiveLink's real time geo-fencing alerts tell you when machines move out of predetermined zones. Curfew alerts inform you of unauthorised usage.

LIVE JCB LINK Track the location of any asset via Bluetooth connection.

LIVE JCB LINK An after market telematics solution which can be retrofitted to any machine.



COMPLETE CONTROL FOR YOUR FLEET.

LiveLink Fleet enables you to track every aspect of your equipment to maximise efficiency and machine uptime.

GUESS LESS, KNOW MORE: Equipment issues and service reminders are logged as soon as they occur, helping you to react quickly.

YOUR EYES ON THE GROUND: Integrate LiveLink Fleet with the JCB Operator mobile app and data from your operators' daily equipment checks feed instantly into your dashboard.

TOTAL PEACE OF MIND: Operator safety alerts help to ensure machines are being used efficiently and safely.

SMARTER TOOLS. SMARTER DECISIONS: From hours worked to fuel wastage, access custom analytics on your fleet to make smarter decisions, quicker.

EFFORTLESS MEETS PAPERLESS: Access certificates, warranty information, quick start machine guides and manuals.

The JCB Operator app

THEY SPOT IT, YOU KNOW IT.

The JCB Operator app gives you faster, clearer and more accurate information about your fleet, direct from the people using your equipment each day.

STAY IN TOUCH: Get regular checks on your machine with visibility in the LiveLink Fleet portal.

TAILOR YOUR CHECKS: Customise your checklists to suit any application, customer or site.

UPLOAD TO KEEP UPDATED: Upload useful information with photos and comments.

FULLY COMPATIBLE: The JCB Operator app works with non telemetry related machines and assets.

ACCESS ALL INFORMATION: Get access to documentation such as quick start guides.

*The individual features of LiveLink Telematics, LiveLink Fleet and Operator App vary per region, engine and machine type.

VALUE ADDED.

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.



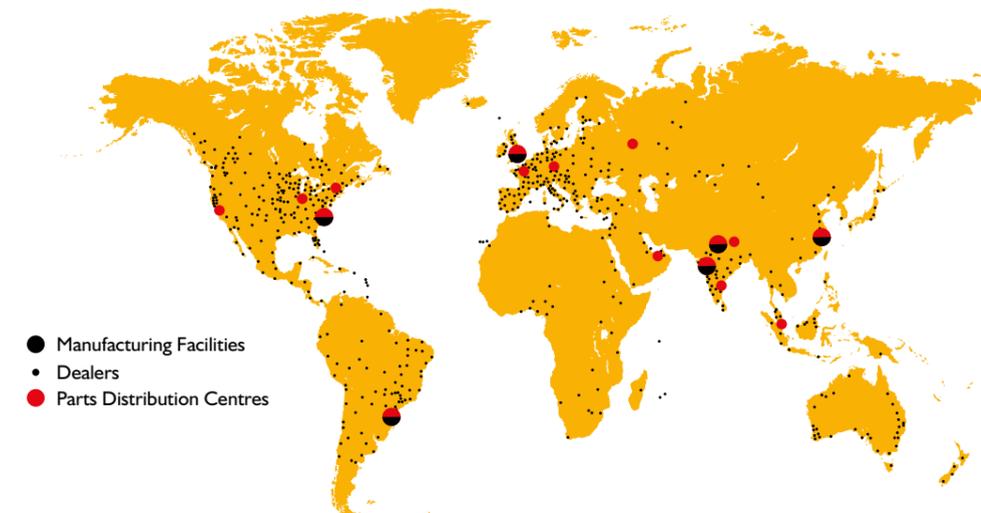
1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.



2 The global network of JCB Parts Centres is another model of efficiency; with 18 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.

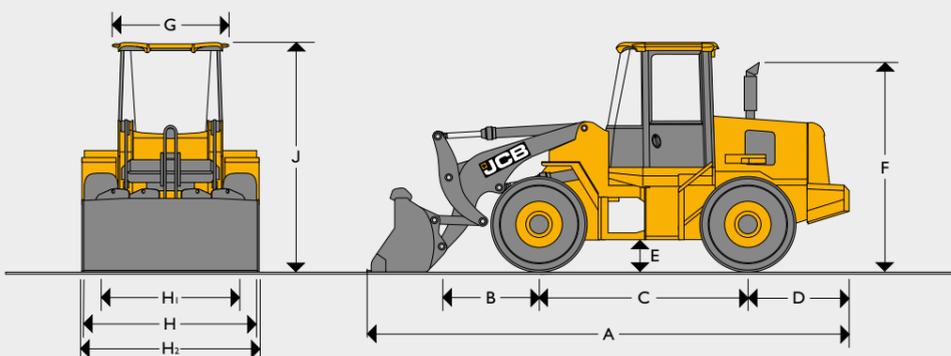


3 JCB offers comprehensive extended warranties as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.



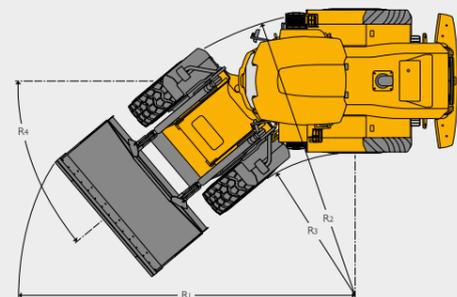
Note: JCB LIVELINK and JCB extended warranty packages may not be available in your region, so please check with your local dealer.

STATIC DIMENSIONS



A	Overall length (with standard bucket)	mm	7345
B	Axle to pivot pin	mm	1140
C	Wheelbase	mm	3000
D	Axle to counterweight face	mm	1901
E	Maximum ground clearance*	mm	410
F	Height over exhaust	mm	3192
G	Width over cab	mm	1688
H	Width over tyres	mm	2495
H1	Wheel track	mm	1955
H2	Max width over fenders	mm	2504
J	Height over cab	mm	3252
J1	Height over raised beacon	mm	3677
	Front axle weight	kg	5640
	Rear axle weight	kg	6422
	Total weight	kg	12062

Data based on machine equipped with direct mounted 2.1 m³ bucket with toe plates and 20.5 / 255 tyres.
* Ground clearance figures may vary depending on the tyres fitted.



R1	Maximum turn radius over shovel	mm	5940
R2	Maximum turn radius over tyre	mm	5369
R3	Inside turn radius	mm	2875
R4	Articulation angle	degrees	40

TRANSMISSION

Type	4-wheel drive, powershift	
Gear	ZF	
	4WG-130	
	Forward	Reverse
1	kph	6.7
2	kph	11.5
3	kph	21.0
4	kph	31.0
		N/A

ENGINE

Manufacturer	Cummins	
Model	6B TA-A 5.9 C-150C	
Capacity	litres	5.9 ltr
Aspiration	Turbocharged	
Cylinders	6	
Max gross power to SAE J1995/ISO 14396	kW (hp) @ 2200 rpm	112kW (150hp)
Nett power to ISO 9249	kW (hp) @ 1600rpm	100kW
Max torque	Nm @ 1500rpm	650Nm
Valves per cylinder	4	
Air cleaner	2 stage (Radial seal type)	
Fan drive type	Hydraulic driven	
Emissions	Tier III	

AXLES

Type	Limited slip differential epicyclic hub reduction	
Make and model	Graziano PR10 front and rear	
Overall axle ratio	24.1:1	
Rear axle oscillation	degrees	11

ELECTRICAL SYSTEM

System voltage	Amps	24
Alternator output	Amp hour	45
Battery capacity	Amp hour	2 x 110

Connectors to IP67 standard

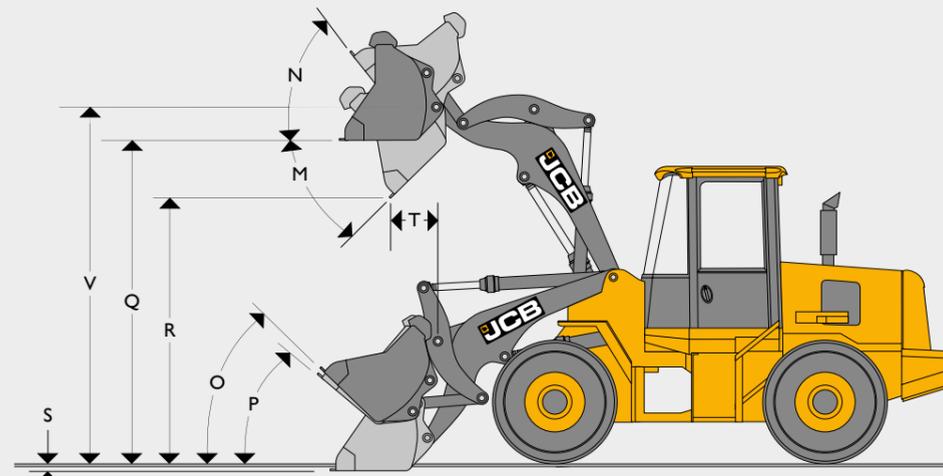
HYDRAULICS

Pump type	Piston type variable displacement	
Pump 1 maximum flow	l/min	176 l/min
Pump 1 maximum pressure	bar	245 bar

Hydraulic cycle times at full engine RPM

Arms raise (full bucket)	Seconds	6.0 max
Shovel dump (full bucket)	Seconds	1.6 max
Arms lower (empty bucket)	Seconds	3.1 max
Total cycle	Seconds	10.7

Variable displacement piston pump feed and 'load sensing' system providing a fuel efficient and responsive distribution of power as required. Main services are servo actuated from a single lever (joystick) or electronic actuated from a multi lever loader control. Auxiliary circuit controlled via proportional switch on single lever and additional lever on multi lever control. Accumulator back-up is available to control loader in the event of loss of pump pressure.



LOADER DIMENSIONS

Model	432ZX PLUS	432ZX PLUS	432ZX PLUS	432ZX PLUS
Bucket mounting	Direct Mounted Shovel	Direct Mounted Shovel	Direct Mounted Shovel	Direct Mounted Shovel
Bucket type	General Purpose	General Purpose	General Purpose	General Purpose
Bucket equipment	Bolton Teeth	Welded Teeth	Weld on Teeth	Bolt on Toe Plate
Bucket capacity (SAE heaped)	m ³	2.1	2.3	2.7
Bucket capacity (struck)	m ³	1.75	1.91	2.25
Bucket width	mm	2700	2700	2780
Bucket weight – with tooth	kg	973	1171	1260
Maximum material density	kg/m ³	1738	1550	1280
Tipping load straight	kg	8264	8037	7811
Tipping load full turn	kg	7300	7100	6900
Payload	kg	3650	3550	3450
Maximum breakout force	kN	132	126	116
M Dump angle maximum	degrees	43.5	43.5	43.5
N Roll back angle full height	degrees	52	52	52
O Roll back at carry	degrees	42.7	42.7	42.7
P Roll back at ground level	degrees	37	37	37
Q Load over height	mm	3601	3651	3651
R Dump height (45deg dump) (dump height max dump in spec sheet)	mm	2783	2815	2753
S Dig depth	mm	47	20	20
T Reach at dump height	mm	1112	1165.5	1231.5
V Pin height	mm	3891	3891	3891
Reach maximum (45deg dump) horizontal arm	mm	1844	1900.5	1964.5
Operating weight (includes 75kg operator and full fuel and Urea tanks)	kg	12062	12260	12349

SERVICE FILL CAPACITIES

Hydraulic system	litres	210
Hydraulic tank	litres	170
Fuel tank	litres	210
Engine oil	litres	15
Transmission	litres	30
Front axle	litres	26
Rear axle	litres	26
Engine coolant	litres	40

CAB

In-cab noise level – 78dB

STEERING

Priority steer hydraulic system with priority valve operating at 170–180 bar. Adjustable steering column. Steering angle: ±40 deg.

BRAKES

Service: Hydraulic power braking on all wheels operating pressure 65 bar. Dual circuit with accumulator back-up. Outboard mounted, oil immersed, multi-plate discs brakes. Parking: Mechanical disc type operating on transmission output shaft.

TYRE SIZE

Tyre size	Manufacturer	Type	Rating	Operating weight kg
20.5 / 25	BKT	Bias Type	16 PR	12062



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

432ZX PLUS Wheel Loader

Gross engine power: 112kw (150hp) Operating weight: 12,430kg
 Full turn tipping load: 7,300 kg Standard shovel capacity: 3.4m³

JCB Sales Limited, Rokester, Staffordshire, United Kingdom ST14 5JP.
 Tel: +44 (0)1889 590312 Email: salesinfo@jcb.com
 Download the very latest information on this product range at: www.jcb.com

©2009 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.

