

Operating weight: 12000 kg | Engine power: 112 kW (150hp) | Payload: 3650 kgs | Standard shovel capacity: 2.2 cu.m

JCB

Always looking for a better way

The story of JCB is one of innovation, ambition and sheer hard work. From small beginnings building agricultural tipping trailers in 1945, to the global force in manufacturing the company has become today, JCB has constantly pushed the boundaries in our desire to be the best. My father and company founder Joseph Cyril Bamford's motto was, "Jamais content", and that is exactly right – we are never content with our achievements. But I believe that even he would be amazed by what the company has become. Today, we have 22 plants on four continents and more than 750 dealers around the world.

JCB is one of the true, great British success stories.

LORD BAMFORD





Taking this impressive legacy forward, JCB 432ZX PLUS is designed for less fuel consumption, high productivity and higher structure life, to perform to its maximum in the rugged and sturdy environment of coal and mining industries. This enables the infrastructure development industry to attain a level of work efficiency that is simply unmatched. Indeed, it is the better way forward, by a long way!

- Best-in-class fuel efficiency
- 11% more productivity*
- Rugged & Reliable
- Best-in-class operator comfort
- Stay connected 24x7
- 700+ OUTLETS and growing >>> Extensive product support



*With respected to current 432ZX model


JCB
JCB
JCB

BEST-IN-CLASS PRODUCTIVITY

- Standard bucket size of 2.2 cu.m (Crusher Application) and 3.4 cu.m (Coal Application). JCB is the first in industry to give these bucket as standard
- Engine: Cummins 6BTAA5.9C, Engine power : 150 hp, Engine peak torque : 650 nm @ 1500 RPM.
- High lift loader arm, ability to dump at the centre of the wagon to help even material spread.
- Z-bar linkage for high breakout force (121kN).
- Productive drive train : 4-speed transmission with torque convertor & limited slip differential; providing closer ratios for better acceleration, hill climbing and road performance.




High
Reach
Z-Bar

BEST-IN-CLASS FUEL EFFICIENCY







Reliable ZF transmission and axles

*T&C Apply.

RELIABILITY & DURABILITY

- In-built quality - Finite element analysis & rig testing ensure superior structural strength & durability.
- Proven ZF heavy-duty transmission & graziano axles.
- Heavy-duty articulation joint.
- Protecting ancillary - The rear counterweight and cast quarter pillars protect the cooling pack and the back end of the machine from damage.
- IP69 & IP67 dust & waterproof electrical connectors.



BEST-IN-CLASS OPERATOR COMFORT



- Q-amp steering for better steering comfort.
- Excellent all around visibility (3 piece laminated front glass).
- Servo controlled hydraulics for effortless hydraulic operation with detente feature.
- Well ventilated spacious cabin with sliding windows.
- Comfortable operator seat with adjustable steering.
- Air conditioning (optional) - To create a perfect working environment for the operator.

SAFETY

- Optimised & efficient hydraulics with unloader valve feature & hydraulic-driven cooling fan.
- Efficient driveline - Optimum engine transmission match ensures proper balance between hydraulic power & trans-power for ultimate efficiency.
- 3 point contact cab access.
- Separate circuit for front & rear hydraulic power brakes with accumulator backup for superior safety.
- Emergency lowering of loader arm.
- Separate steering & brake priority.







EASE OF MAINTENANCE

- Easy access to engine bay & cooling pack.
- Ground level access for daily check points.
- In built pressure testing ports.
- Radial seal air cleaner.







LOW MAINTENANCE COST

- Hydraulic oil change period of 2000 hrs.
- Fully hydraulic dual circuit braking with multiple oil immersed disk; gives braking system virtually maintenance free life span.







*T&C Apply









JCB LIVELINK - STAY CONNECTED 24x7

NOW BE ASSURED OF YOUR JCB WHEEL LOADING SHOVEL'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 a perfect working condition.

- Service reminder
- Machine data backup
- Critical machine health alerts

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
- Fuel level information
- Engine status
- Data analytics

SECURITY

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

- GPS tracking
- Possible intrusion/ Tow away alerts
- Operating hours/ Time fencing
- Geofencing



*Optional


LIVELINK
JCB

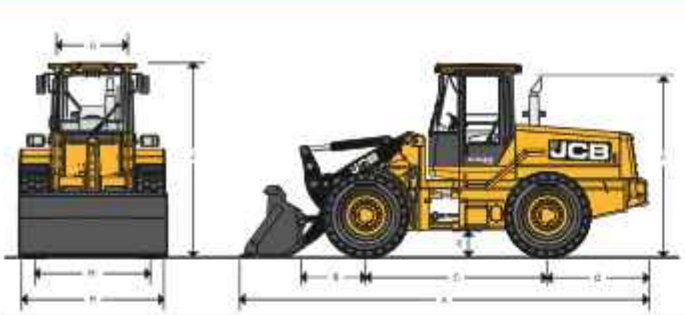


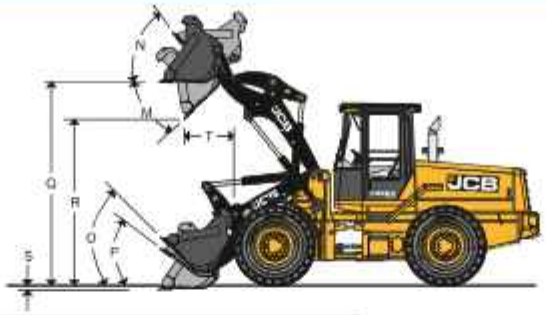


432ZX PLUS









STATIC & PERFORMANCE DIMENSIONS

	Nomenclature	Unit	432ZX PLUS STANDARD ARM						
			335/B6693	336/F5101	335/B6638	335/B6606	335/B6434	336/F3615	400/Y8488
	Bucket Description		Welded Teeth				Without Teeth	Bolt on Toe Plate	Welded Teeth
	Bucket Capacity (ISO/SAE heaped)	m3	1.8	2.2	2.3	2.7	3.1	3.4	3.4
	Bucket Capacity (Stuck)	m3	1.49	1.84	1.91	2.25	2.58	3.01	2.97
	Bucket Width	mm	2580	2660	2700	2780	2800	2894	2894
	Bucket Weight	kg	1102	988	1171	1260	1124	1341	1284
	Max. Allowed Material Density	kg/m3	1950	1660	1550	1280	1160	980	1000
	Tipping Load Straight	kg	7924	6264	6037	7811	8150	7471	7698
	Tipping Load Full Turn	kg	7000	7300	7100	6900	7200	6600	6800
	Payload	kg	3500	3650	3550	3450	3600	3300	3400
	Maximum Breakout force	kN	117	121	126	116	103	99	103
	Operating Weight	kg	12154	12040	12223	12312	12176	12397	12336
A	Overall Length With Bucket	mm	7491	7462	7414	7505	7433	7486	7624
B	Axle to Pivot pin	mm	1192	1192	1192	1192	1192	1192	1192
C	Wheel Base	mm	3000	3000	3000	3000	3000	3000	3000
D	Axle to Tow hitch on Counterweight	mm	1901	1901	1901	1901	1901	1901	1901
E	Minimum Ground Clearance	mm	380	380	380	380	380	380	380
F	Height over Exhaust	mm	3131	3131	3131	3131	3131	3131	3131
G	Width Over Cab	mm	1688	1688	1688	1688	1688	1688	1688
H	Width Over Tyres	mm	2400	2400	2400	2400	2400	2400	2400
H1	Wheel Track	mm	1955	1955	1955	1955	1955	1955	1955
J	Height Over Cab	mm	3252	3252	3252	3252	3252	3252	3252
M	Dump Angle Maximum	degrees	43.5	43.5	43.5	43.5	43.5	43.5	43.5
N	Roll Back Angle Full Height	degrees	52.0	52.0	52.0	52.0	52.0	52.0	52.0
O	Roll Back At Carry	degrees	42.7	42.7	42.7	42.7	42.7	42.7	42.7
P	Roll Back At Ground Level	degrees	38.6	38.6	38.6	38.6	38.6	38.6	38.6
Q	Load Over Height	mm	3582	3582	3590	3590	3591	3557	3583
R	Dump Height (Max Dump)	mm	2695	2714	2754	2692	2732	2671	2604
R1	Inside Radius	mm	2920	2920	2920	2920	2920	2920	2920
R2	Maximum Radius Over Tyre-Size 17.5-25	mm	5320	5320	5320	5320	5320	5320	5320
R3	Maximum Radius Over Shovel	mm	5917	5951	5995	6080	6075	6140	6128
S	Dig Depth	mm	65	67	57	57	57	92	65
T	Reach @ Dump Height	mm	1288	1266	1238	1304	1244	1257	1385
	Reach Max. 45 deg. Dump. Arm Horizontal	mm	2021	2000	1973	2037	1977	1990	2117
	Pin Height Maximum	mm	3830	3830	3830	3830	3830	3830	3830
	Bucket Weight Diff wrt 2.1 cu.m	kg	154	40	223	312	176	393	336
	Density Calculated	kg/m³	1944	1659	1543	1278	1161	971	1000

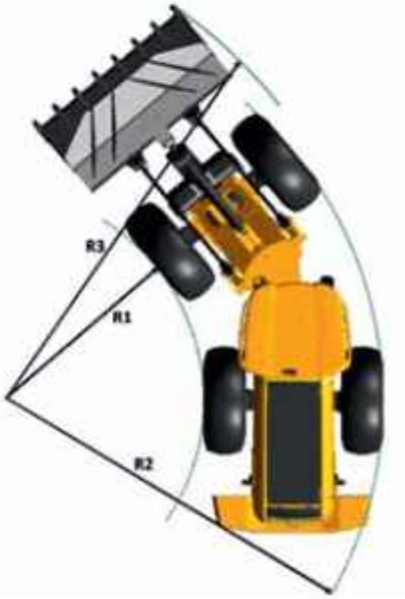
MAX ENGINE POWER : 150 hp (112 kW)

STD OPERATING WEIGHT : 12000 kgs

STD LOADER CAPACITY : 2.2 m³

PAYLOAD : 3650 kgs

Turning Radius



LOADER

Heavy-duty 3 ram geometry (Z-bar linkage) providing higher breakout forces with excellent loading characteristics. The pin, bush and sealing design on all pivot pins provide extended maintenance intervals.

ENGINE

Six cylinder turbo-charged and after cooler, water-cooled diesel engine.

Type	: 4 stroke, direct injection
Make & model	: Cummins 6 BTA A 5.9C-150C
Bore	: 102 mm
Stroke	: 120 mm
Displacement	: 5.9 litres
Gross power	: 150 hp (112 kW) @ 2200 rpm
Max torque	: 650 nm @ 1500 rpm
Emission	: Conforms to CMVR BS-III norms.

TRANSMISSION

4-wheel drive, automatic ergo power shift transmission electrically operated selector and gear change incorporating a speed inhibitor and modulation for smooth, responsive on-the-move direction and ratio changes. Single stage integral torque converter, 4 forward and 3 reverse gears.

Type	: 4WE Ergo power shift
Make	: ZF4WG
Gradebility	: 55.9% (30°)

SPEEDS

Max. speed in each gear	Forward	Reverse
1st Gear	6.7 kph	6.3 kph
2nd Gear	11.5 kph	11.6 kph
3rd Gear	21 kph	21.0 kph
4th Gear	31 kph	-

AXLES

Type	: Epicyclic hub reduction
Make & model	: Graziano PR10 front / PR10 rear
Overall axle ratio	: 20.197:1
Rear axle oscillation	: +/- 11°

BRAKES

Service: Hydraulic power braking on all wheels, operating pressure 65 bar. Dual circuit with accumulator backup provides maximum safety under all conditions. Out-board mounted, oil immersed, multi-plate disc brakes with organic brake linings are eco-friendly.

Parking: Mechanical disc type operating on transmission output shaft.

STEERING

- Q-amp hydraulic system with integrated priority valve operating at 190 bar to provide smooth low effort response.
- Steer rams located high in the chassis to provide protection from damage.
- Adjustable steering column.
- Steering angle ± 40°

TYRES

Standard : 17.5 -25, (20 PR) E3 / L3 (Heavy-duty)

ELECTRICALS

24 volt negative ground system, 45 amp alternator with 2x110 AH low maintenance batteries. Ignition key start/stop. Other electrical equipment include 4 front and 2 rear work lights, registration plate lights front and rear, parking lights, direction indicators, reverse lights and an alarm. Connectors to IP67 standard. Relays and fuses are well identified and conveniently located on side console.

HYDRAULICS

Axial piston pump with load sensing and priority valve. Twin spool remote mounted valve block with float. Main services are servo actuated from hydraulic remote lever (joystick) and loader control through accumulator backup hydraulic supply unit.

Pump displacement	: 80 cc/rev and 34.56 cc/rev
System pressure	: 245 bar
Pump flow	: 176 lpm

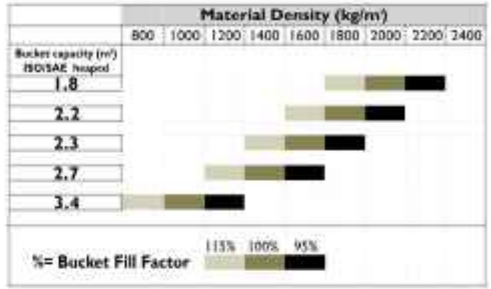
SERVICE CAPACITIES

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

CAB

- Resiliently mounted, (optional) ROPS/FOPS structure.
- Deluxe operator environment combines ergonomically located controls with a high level of appointment and low internal noise levels.
- Entry/ Exit via large rear hinged door and anti-slip steps.
- Excellent forward visibility is provided by 3 section curved laminated windscreens.
- Extensive instrumentation includes electronic monitoring display unit for transmission functions.
- Audio/ visual monitoring includes engine oil pressure, transmission oil temperature and pressure, engine coolant temperature and blocked air filter warning.
- The unitary construction allows easy sealing and prevents ingress of dust.
- Electric speed range selector (with integrated kick down button) for gear shift and direction change. Hand lever for parking brake.

Bucket selection diagram



MATERIAL DENSITY

Material	Loose density(kg/m3)	
Sand	Dry	1290
	Dry fine	1425
	Damp	1735
	Wet	1870
Gravel	Commo	1570
	Sandy	1670
	Wet river	1940
Clay	Dry	1510
	Damp	1570
	Wet	1660
Earth	Top soil	1000
	Dry	1050
	Moist	1275
Coal	Lignite	900
	Bituminous	895
	Anthracite	1070
Coke		440
Rock	Basalt	1960
Stone	Granite	1650
	Limestone	1510
	Sandstone	1335
	Shale	1500
	Marble	1510
Ores	Bauxite	1610
	Gypsum	1850
	Haem red	2280
	Haem brown	2820
	Magnesite	3320
	Phosphate	1970
Misc	Slag	
	Concrete	1500
	Rubble	1400

All dimensions may vary within 1.5% of nominal value. Photographs depicted may include optional equipment. Design & specifications are subject to change without notice or obligation.

* Speeds are with respect to 20.5 tyres

WE ARE CLOSER TO YOU

65+ Dealers

700+ Outlets

5,000+ Trained service engineers

5 Parts warehouses



3,000+ Mobile service engineers

4 Training centres

250+ Service vans

24x7 Support 12 Languages

Industry's finest customer support network

SERVICE & SUPPORT

HIGHLY SKILLED JCB ENGINEERS FOR EXCAVATORS

JCB's highly skilled engineers are there for you to maximise your profitability and reduce downtime. Our engineers are always there to serve you in a better way.

JCB trained and certified engineers

Best-in-class service and repairs

On-site customer training and support



1st INDUSTRY FIRST

SMART & DIGITAL SUPPORT

Smart Serve

Our service engineers are equipped with Smart Serve technology which enables JCB to send the closest engineer to the machine, ensuring maximum uptime.





Assured parts supply

JCB in India have built a robust logistics and supply management chain across the country that facilitates the provision of parts for all machines in the shortest time. Customers can now get JCB genuine parts easily and conveniently through its mobile app.

COMPLETE CARE

GIVE YOUR MACHINE EXTENDED WARRANTY AND CARE.

- JCB Careplus is an extended warranty programme that comes into effect after the machine standard warranty expires.
- JCB Careplus can be purchased within the 1st year from the sale of the machine.
- The programme offers you peace of mind and saves your maintenance cost even after your machine standard warranty expires.

JCB Care +Plus | Extended Warranty Programme



BENEFITS OF JCB CAREPLUS

- No limits on number of claims
- Preventive maintenance service*
- Nationwide coverage*
- JCB skilled manpower support
- Maximum productivity
- Maximum uptime
- Maximum performance
- Breakdown cost protection
- Better resale value

TYPES OF EXTENDED PACKAGES OFFERED.

Warranty applicable years/hours	Standard warranty 1st Year warranty (2,000 hrs)	Full machine comprehensive cover: Extended warranty 2nd Year warranty (4,000 hrs)	Full machine comprehensive cover: Extended warranty 3rd Year warranty (6,000 hrs)
JCB 432ZX PLUS	✓	✓	✓

✓ Included

*Varies on JCB Careplus package selected.



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