



WHEELED LOADING SHOVEL | RANGE



BUILDING THE **ULTIMATE** RANGE.

Ever since JCB was founded by Joseph Cyril Bamford in a small garage in Staffordshire in 1945, innovation has driven our machines and our thinking. Of course we've grown since then – to employ over 10,000 people across 4 continents – but innovation remains at the heart of everything we do.

A history of innovation

We've been innovating since day one, and we've always cultivated a uniquely fearless approach to design. Indeed, we've invented whole new genres of machinery – the backhoe loader and the telehandler for example – and revolutionised others like the tractor or skid steer loader.

The best backup in the business

A key component of any JCB machine is peerless backup and support: our 2,000-strong global dealership and service network keeps the customer at the centre of everything we do, in over 150 countries worldwide. Our World Parts Centre, meanwhile, aims to deliver anywhere on earth within 24 hours.

Success by the million

Every JCB is designed and built to offer ultimate productivity, durability, efficiency, safety, comfort and reliability, so it's perhaps not surprising that we've just built our millionth machine. As you'd expect from such an innovative company though, we won't be resting on our laurels.





406 WHEELED LOADING SHOVEL.

1. Lifting capacity

The 406 has an impressive 3250kg full turn tipping load with its standard 0.8m³ bucket.

2. Giving great service

Servicing is easy thanks to wide opening bonnets; long service intervals; virtually maintenance-free brakes; and easily accessible components.

3. Engine performance

The 406 has an easy-maintenance mechanical JCB diesel engine by Kohler offering potent performance.

4. Innovative transmission

All-wheel-drive hydrostatic transmission provides good traction in all conditions, as well as reduced tyre wear and lower running costs.

5. On the road

The powerful JCB 406 offers 20km/h roading speed.



The finest engine and drivetrain.



Large single piece bonnet.



Recessed rear lights.



Single-lever manual control.

		406
Operating weight range	kg	4873 - 5020
Maximum gross engine power	kW (hp)	36.4 (49)
Shovel capacity	m³	0.8 - 1.4
Full turn tipping load range	kg	3088 - 3250
Payload range	kg	1544 - 1625
Maximum breakout force	kN	41.9
Load over height	mm	2991

422ZX WHEELED LOADING SHOVEL.

1. Durable centre joint

Twin taper roller bearings and a heavy-duty pin and bush assembly make our centre joint tough. Steer rams and hoses are high above the joint for protection.

2. Powerful loader geometry

The 422ZX's Z-type loader arm geometry generates maximum breakout forces and increased reach when lorry loading.

3. Hydraulic versatility

Our simple and reliable hydraulic circuit has a float function for simplified grading and levelling. The optional three-spool block is ideal for attachment use.

4. Precision as standard

Standard-fit servo loader controls are extremely precise, and provide smooth, low effort, fatigue-free operation.

5. Proven the world over

We've tested this machine in climates ranging from -20 to +50°C. Its T2 JCB DIESELMAX engine has excellent filtration and can handle varying fuel quality.

6. The best of both worlds

A JCB DIESELMAX engine combined with ZF axles and transmission delivers exceptional traction and digging /loading ability.





ZX loader arm geometry.



Fully automatic 4 speed 4WD transmission.



Excellent all round visibility.



Excellent service access via gull-wing type doors.



Servo loader controls.

		422 ZX
Operating weight range	kg	11,900
Maximum gross engine power	kW (hp)	93 (125)
Shovel capacity	m ³	1.7
Full turn tipping load range	kg	6600
Payload range	kg	3300
Maximum breakout force	kN	101
Load over height	mm	3453

432ZX WHEELED LOADING SHOVEL.

1. Powerful loader geometry

The 432ZX's Z-type loader arm geometry generates maximum breakout forces (121kN) and increased reach when lorry loading.

3. Durable centre joint

Twin taper roller bearings and a heavy-duty pin and bush assembly make our centre joint tough. Steer rams and hoses are high above the joint for protection.

5. Power to perform

Proven and reliable Cummins 5.9 litre 6 cylinder develops 112kW (150hp) and peak torque of 650Nm.

2. Lowest operating cost

Full hydraulic circuit braking, with oil immersed disc's gives virtually maintenance free service life.

4. Precision as standard

Standard-fit servo loader controls are extremely precise, and provide smooth, low effort, fatigue-free operation.

6. Productive drivetrain

The 432ZX is equipped with tried and proven ZF transmission and Graziano axles that delivers exceptional traction and digging /loading ability.



Servo controlled hydraulics.



High lift loader arm.



Easy access to engine bay.



Strong central joint.

		432 ZX
Operating weight range	kg	12,100
Maximum gross engine power	kW (hp)	112 (150)
Shovel capacity	m ³	2.1 - 2.7
Full turn tipping load range	kg	7618
Payload range	kg	3650
Maximum breakout force	kN	121
Load over height	mm	3585

426/436 WHEELED LOADING SHOVEL.

1. See the difference

A sloped rear bonnet makes for great visibility on these machines, so it's easier to avoid hazards and, therefore, machine damage.

3. The perfect controls

There are all-day comfy single or multi-lever controls. With single lever, you can go forwards and backwards with your hands on the wheel.

4. Monitoring performance

The Electronic Monitoring System (EMS) on a 426 or 436 controls key components, if necessary triggering built-in safeguards to prevent damage.

5. Armed and ready

Choose from Z-bar or HT loader arms. Opt for high-lift or super-high-lift options to boost productivity when loading high-sided vehicles/hoppers.

2. Right behind you

Our cast steel rear end provides plenty of structural strength, not to mention superb damage protection for reduced operating costs.

6. Safety meets economy

Oil-immersed braking ensures both effective stopping and long service life. The 436's wheel speed braking reduces heat, drag and fuel consumption.



Easy, safe access.



Automatic transmission.



High torque at low rpm.



Ground-level access.

		426 HT	426 HT HL	426 ZX	436 HT	436 HT HL	436 HT SHL	436 ZX
Operating weight range	kg	12,700 - 13,390	12,970 - 13,660	12,850 - 13,406	14,491 - 14,875	14,981 - 15,365	15,533 - 15,917	14,910 - 15,274
Maximum gross engine power	kW (hp)	113 (152)	113 (152)	113 (152)	132 (177)	132 (177)	132 (177)	132 (177)
Shovel capacity	m ³	1.8 - 2.7	1.8 - 2.7	1.9 - 2.7	2.3 - 2.7	2.3 - 2.7	2.3 - 2.7	2.3 - 2.7
Full turn tipping load range	kg	7085 - 8396	5916 - 7010	7437 - 8370	8870 - 9578	6741 - 7279	5490 - 5929	8643 - 9199
Payload range	kg	3540 - 4198	2958 - 3505	3700 - 4200	4400 - 4800	3300 - 3600	2745 - 2965	4332 - 4596
Maximum breakout force	kN	123	123	129	134	134	139	162
Load over height	mm	3610 - 3627	4040 - 4057	3638 - 3645	3755	4409	4976	3755

455ZX WHEELED LOADING SHOVEL.

1. Powerful loader geometry

The 455ZX's Z-type loader arm geometry generates maximum breakout forces (164kN) and increased reach when lorry loading.

2. Lowest operating cost

The JCB DIESELMAX engine uses our latest generation EcoMAX lean-burn technology for ultimate fuel efficiency.

3. The best components

JCB DIESELMAX engine, ZF transmission and axles, Rexroth pumps and Parker valve block.

6. Loading productivity

Powerful twin variable displacement piston pump hydraulics circulate a massive 226 l/min for fast cycles.

5. Power to perform

Proven and reliable JCB DIESELMAX 7.2 litre, 6 cylinder engine develops 165kW (221hp) and peak torque of 1000Nm.

4. The ultimate cab

Spacious modern cab, with LCD screen, HVAC, air suspension seat, 74dB(a), adjustable arm rest and steering – all as standard.



Air conditioning comes as standard.



Easy access to engine bay.



Limited slip differentials as standard.



Proven Z-bar geometry.

		455 ZX
Operating weight	kg	17880
Maximum gross engine power	kW (hp)	165 (221)
Shovel capacity	m ³	3.1
Full turn tipping load	kg	11100
Payload	kg	5550
Maximum breakout force	kN	164
Load over height	mm	3822

456 WHEELED LOADING SHOVEL.

1. Versatility by the bucketload

Choose high or super-high-lift options for high-up loading applications.

2. Choice of loader arms

A JCB 456 can be fitted with either HT (standard/super-high-lift) or ZX (standard/high-lift) loader arms to meet any requirement.

3. Innovative transmission

All-wheel-drive hydrostatic transmission provides good traction in all conditions, as well as reduced tyre wear and lower running costs.

4. Always in the right gear

A fully automatic transmission ensures that operators are always in the best possible gear for productivity, fuel efficiency and machine health.

5. A perfect operating environment

The 456 has a very spacious 3m³ cab that's got plenty of open space and storage room; it's also ergonomically designed for comfort and ease of use.

6. Efficient hydraulics

JCB's load-sensing hydraulic system uses flow-on-demand technology for accurate, efficient load placement as well as lower fuel consumption.



Ground level service access.



Choice of single or multi-levers.



The 360° tinted glass cab.

Designed to deliver outstanding power and optimum efficiency, every component on the JCB 456 has been created to meet rigorous demands day in, day out.



A perfectly matched, balanced powertrain.

		456 HT	456 HT SHL	456 ZX	456 ZX HL
Operating weight range	kg	20,028 - 20,371	20,856 - 21,271	18,823 - 19,316	19,161 - 19,727
Maximum gross engine power	kW (hp)	160 (215)	160 (215)	160 (215)	160 (215)
Shovel capacity	m ³	3.1 - 3.5	2.8 - 3.5	3.1 - 3.5	2.8 - 3.5
Full turn tipping load range	kg	11,708 - 12,671	7551 - 8221	11,419 - 12,797	8594 - 9593s
Payload range	kg	5800 - 6300	3700 - 4100	5700 - 6400	4200 - 4800
Maximum breakout force	kN	143	145	154	136
Load over height	mm	4028	4994	3702 - 3831	4273 - 4402

467 WHEELED LOADING SHOVEL.

1. Tried and tested

An extensive development programme – including 1.2 million test cycles – has helped guarantee the 467's durability.

6. Made to last

Large diameter loader and articulation pins are durable and low-maintenance; the bushes have secondary seals to keep dirt out.

2. Ultimate driveline

The 467's 216kW(290hp), 6-cylinder diesel engine produces high power and torque 1478 Nm at low revs.

4. Absolute power

An intelligent clutch cut-off feature gives maximum hydraulic performance and limits vehicle speed when loading.

3. Total control

467 ZX wheel loaders boast electro-hydraulic servo operation, with close-at-hand controls for forward/reverse, return-to-dig, arm height limitation and float.

5. Class-leading serviceability

Expect 500-hour service intervals and an easy-access bay containing pressure test points, transmission filters, emergency steer pump, batteries and isolator.





The optional JCB Driveline Efficiency Package reduces drivetrain and brake loads.



Modern central dash display.



3-piece laminated front screen for excellent visibility.

		467 ZX
Operating weight range	kg	23,989 - 24,214
Maximum gross engine power	kW (hp)	216 (290)
Shovel capacity	m ³	3.8 - 4.2
Full turn tipping load range	kg	14,764 - 15,019
Payload range	kg	7300 - 7500
Maximum breakout force	kN	188
Load over height	mm	3968 - 3965

ATTACHMENTS.

FROM BUCKETS, SHOVELS, HYDRAULIC POWERPACKS AND TOOLS, TO SPECIALISED PRODUCTS FOR A HUGE RANGE OF APPLICATIONS LIKE SORTING AND DEMOLITION, OUR GENUINE JCB ATTACHMENTS CAN BE PERFECTLY MATCHED TO ANY MACHINE. THEY'RE BACKED BY OUR WORLDWIDE SERVICE TEAM TOO.



High capacity waste shovel.



Sweeper collector.



Forks.



High tip shovel.



Waste shovel with top grab.

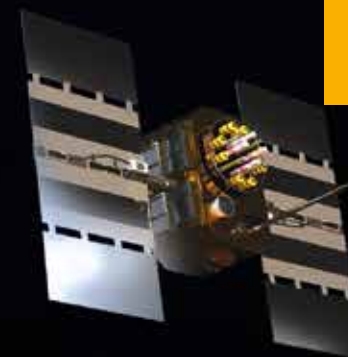


LIVELINK, WORK SMARTER.

LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MANAGE JCB MACHINES REMOTELY – ONLINE, BY EMAIL OR BY MOBILE PHONE. ACCESS EVERYTHING FROM MACHINE ALERTS TO FUEL REPORTS AND HISTORY INFORMATION, WITH ALL DATA STORED AT A SECURE CENTRE.

Productivity and cost benefits

By providing information like idle time monitoring and machine fuel consumption, JCB Livelink helps reduce your fuel usage, saving money and improving productivity. Machine location information can help improve efficiency and perhaps even reduce insurance costs.



Maintenance benefits

Manage machine maintenance easily – accurate hours monitoring and service alerts improve maintenance planning, while real-time location data helps you manage your fleet. Critical machine alerts and maintenance history records are also available.



Security benefits

Livelink's real-time geofencing alerts tell you when machines move out of predetermined zones, and real-time curfew alerts inform you of unauthorised usage. Further benefits include real-time location information.



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

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 16 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.



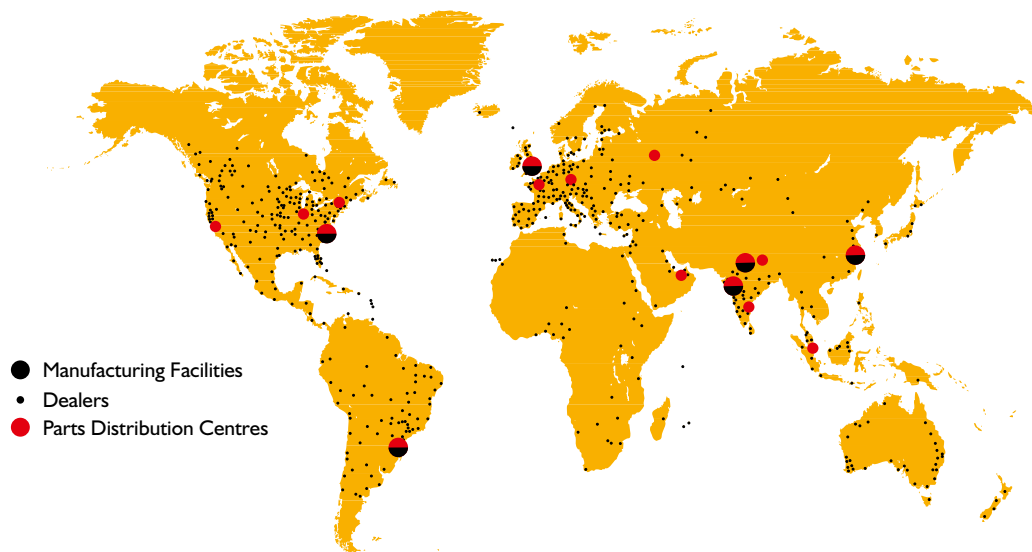
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3 JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates,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



3

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









ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

WHEELED LOADING SHOVEL RANGE

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

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