



PRODUCTIVE PERFORMANCE.

THE NEW JCB 407 AND 409 BOTH MEET STAGE V EMISSIONS LEGISLATION. THESE COMPACT WHEEL LOADERS ARE VERY VERSATILE MACHINES WITH OPTIMUM POWER-TO-WEIGHT RATIO MAKING THEM HIGHLY PRODUCTIVE AND EFFICIENT TOOL CARRIERS.

JCB Diesel by Kohler.

1 JCB has worked in close collaboration with Kohler to produce the ultimate compact wheel loader engine with high power and torque produced at low revs.

2 Enhanced performance on loader front end with a new high flow option giving an additional 40 litre total: 118 l/min (409) and 100 l/min (407).

The JCB 407 and 409 both have a high speed option providing top speeds of 35km/h and 40km/h respectively.

3 Hydrostatic drive makes these models very easy to operate even for the inexperienced. That means there's less risk of overpowering the machine at the expense of fuel economy.

New Eco Mode feature improves fuel efficiency. The Auto Idle Shutdown feature turns the engine off after a set period of no use, reducing fuel usage.



All the versatility you need.

4 JCB's articulated steering boasts an easy-to-use built-in sideshift which is ideal for pallet handling and changing attachments.

5 So that you can tailor your wheel loader to any application, we offer several different axle options. Open diffs are ideal for hard ground and limited slip diffs excel on soft muddy terrain.

Our 100% switchable front axle diff lock on the 407 and 409, meanwhile, provides ultimate traction on muddy terrain and creates no shear forces, so won't damage the ground when not in use. It can also be engaged on the move and under load.

6 Power from the driveline is transferred to the ground very efficiently through an innovative chassis, with perfect harmony between all components. This makes our machines the best possible wheel loader solutions.

7 Equip your wheel loader with our towing option and you'll get a hitch with rear electrics and hydraulics, allowing you to trailer loads up to 3.5 tonnes or carry rear attachments like salt spreaders.

Our inching pedal economically splits engine power from tyres to work frame in order to maximise power of the machine for precise, efficient material handling.

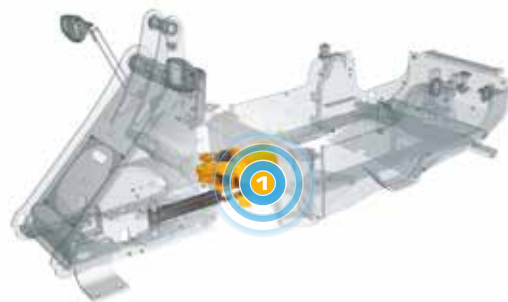


QUALITY AND RELIABILITY BUILT IN.

JCB KNOWS THAT A WHEEL LOADER IS A KEY PART OF THE ON-SITE PROCESS. THAT'S WHY THE NEW 407 AND 409 ARE BUILT ON A FOUNDATION OF QUALITY AND RELIABILITY. THE STANDARDS WE'VE USED FROM DESIGN TO MANUFACTURE WILL SAFEGUARD YOUR WORKING PROCESS, HOUR AFTER HOUR, DAY AFTER DAY.

Proven build quality.

- 1** With our knowledge of materials handling JCB does not accept compromises when developing machines. Proof of this is our strong heavy-duty centre joint which oscillates through ± 10 degrees.
- 2** Recessed rear lights are protected within the solid counterweight casting for good impact protection.
- 3** Hydraulic hoses are well protected, being neatly routed, clamped and positioned well away from all pinching areas.
- 4** We use state-of-the-art manufacturing processes like robot machining, precision paint technology and innovative assembly techniques to achieve the very highest levels of quality.
- 5** Precision machining provides high tolerances and accurate location of pins and bushes.



Stronger by design.

6 The core of the 407 and 409 has been built using the finest quality engine, driveline and axle components from suppliers like DANA and Bosch.

7 These machines benefit from a strong chassis and the best possible weight distribution to allow for better absorption of external forces into the machine.

5 Finite element analysis and rig testing ensure superior structural strength and durability. Cold cell testing guarantees starting performance at temperatures as low as -20 degrees.



COMFORTABLE AND EASY TO USE.

THE NEW 407 AND 409 COMPACT WHEEL LOADERS ARE DESIGNED TO MAKE WORK EASIER. THEIR NEXT GENERATION CABS ARE EASY TO ACCESS, INTUITIVE TO OPERATE AND THEY'RE OPERATED FROM THE CENTRE OF THE MACHINE FOR SUPERB VISIBILITY. ULTIMATELY, A CONFIDENT AND COMFORTABLE OPERATOR IS A MORE PRODUCTIVE ONE.



Designed around you.

1 All-new next generation styling in the cab includes new right hand arm rest designed for improved operator working and an easy to clean floor mat.

2 A new next generation tilting and telescopic steering column provides easy adjustment for maximum comfort. A new steering wheel features soft grip for improved comfort and style.

3 A stylish modern central dash display combines analogue dials and a colour LCD screen which can display machine health details, service requirements, operating information and more.

Depressurising button in cab for easy and quick change of attachments.

4 All the instruments needed to operate a JCB wheel loader are within easy reach of the seat, so there's no need to hunt around for information whilst working.



Greater comfort and control.

5 Ergonomically designed joystick for more comfortable and intuitive operation.

The 407 has reduced in-cab noise levels of 78dB with just 76dB for the 409.

6 Fully opening right hand window as standard providing increased ventilation while still being protected from dust.

7 Raised driving position provides increased forward and rearward visibility with superb all-round machine visibility.



SERVICEABILITY MADE EASY.

THE NEW JCB 407 AND 409 BENEFIT FROM INNOVATIVE DESIGN AND QUALITY COMPONENTS, ALLOWING THEM TO SPEND AS MUCH TIME AS POSSIBLE HARD AT WORK WITH LONG SERVICE INTERVALS.

Service with a smile.

1 Gain access to the engine bay and cooling pack areas easily with the large single piece bonnet. All daily check points can also be easily accessed under the bonnet.

2 The DPF is well positioned making it easy to replace without removing other components.

3 Both the new 407 and 409 share common parts with other JCB machines making for even greater availability.

4 Cab air filter and electrical fuses sit under the HVAC for easy ground level access.

5 The battery is easily located in a secure locking box.

6 Electronic engine has more information available which is displayed on the cab EMS and also through JCB LiveLink, including running hours, error information and DPF status.



SAFE AND SECURE.

BECAUSE SAFETY AND SECURITY ARE PARAMOUNT ON ANY SITE, THE JCB 407 AND 409 ARE DESIGNED TO PROTECT THEIR OPERATORS, THEMSELVES AND ANY BYSTANDERS AT ALL TIMES. GREAT VISIBILITY, ANTI-THEFT FEATURES AND NON-SLIP SURFACES ARE JUST THE START.

Total safety.

- 1** The new 407 and 409 can be fitted with an immobiliser as an option to help prevent thefts from your fleet.
- 2** Access steps are inclined and equally spaced, complemented by well positioned grab handles for three points of contact at all times.
- 3** Engine mounted DPF is secure under lockable bonnet.
- 4** Our in-cab, electronic 2-stage quickhitch isolation system protects against uncontrolled release of attachments.
- 5** A seat switch monitors if an operator is present and stops the engine if not, preventing any movement of the machine.





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.



Track the location of any asset via Bluetooth connection.



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.

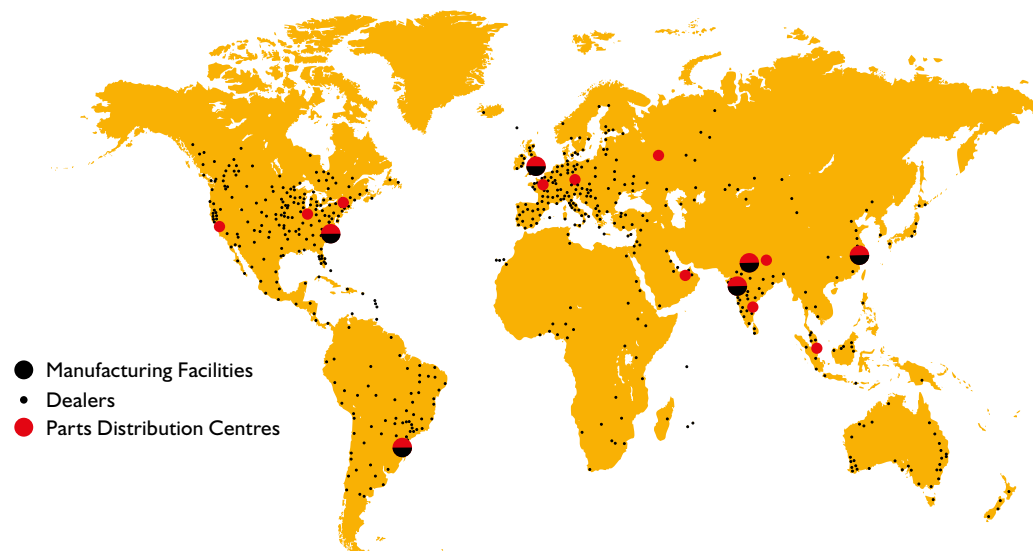


1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

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.

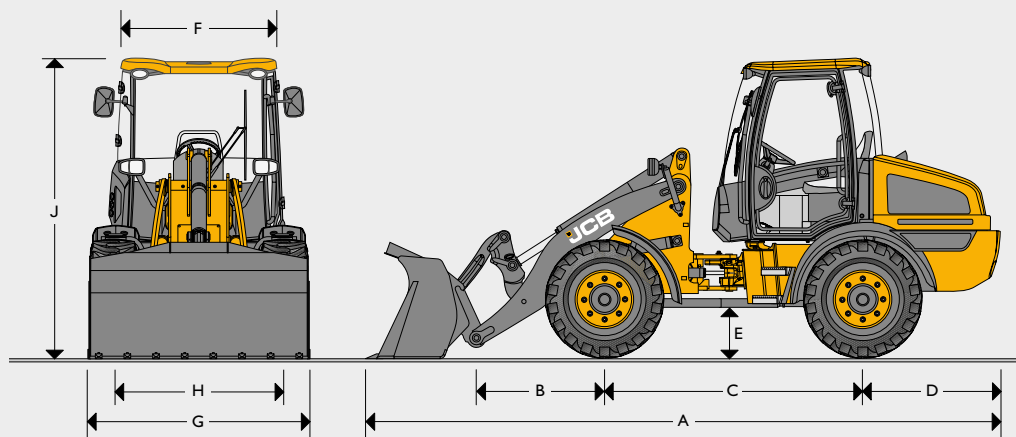


3 JCB offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient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



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

STATIC DIMENSIONS

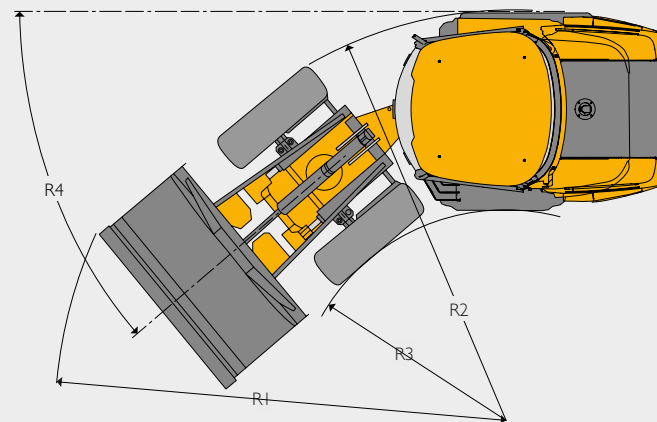


			407	409
A	Overall Length	mm	5133	5465
B	Axle to pivot pin	mm	906	1130
C	Wheelbase	mm	2100	2205
D	Axle to counterweight face	mm	1268	1295
E	Ground clearance	mm	313	472
F	Width over cab	mm	1468	1468
G	Width over tyres	mm	1727	1898
H	Wheel track	mm	1390	1490
J	Height over cab	mm	2500	2643
	Front axle weight	kg	1395	1850
	Rear axle weight	kg	3668	4076
	Total weight	kg	5063	5926
	Inside turn radius	mm	2010	2079
	Max. turn radius over shovel	kg	4160	4432
	Articulation angle	degrees	± 40	± 40
	Max. radius over tyre	kg	3800	3979
	Max. width across tyres	mm	1864	1900

407 data based on machine equipped with quickhitch mounted 0.8m³ bucket with toe plates and Camso SLR4 12.5-18 tyres.

409 data based on machine equipped with quickhitch mounted 1.0m³ bucket with toe plates and Mitas MPT-04 16.0/70-20 tyres.

TURNING CIRCLE



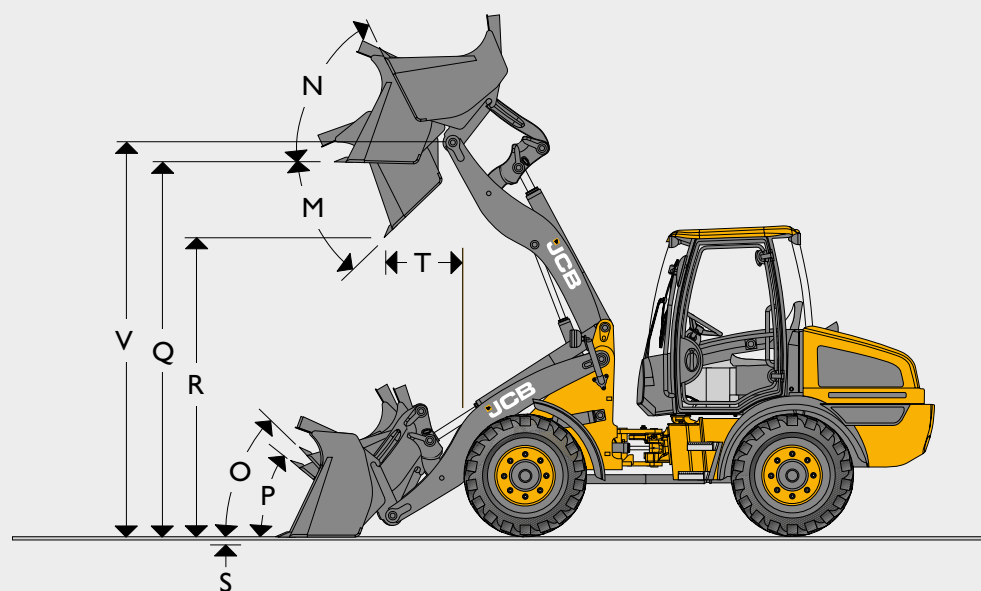
			407	409
R1	Maximum turn radius over shovel	mm	4160	4432
R2	Maximum turn radius over tyre	mm	3800	3979
R3	Inside turn radius	mm	2010	2079
R4	Articulation angle	degrees	40	40

ENGINE

		407	409
Type		4 stroke, Electronic Common Rail	
Model		JCB Diesel by Kohler - KDI 2504 TCR	
Capacity	litres	2.482	2.482
Aspiration		Turbocharged	Turbocharged
Cylinders		4	4
Max gross power to SAE J1995/ISO 14396	kW (hp)	48 (64) @ 2200 rpm	54.5 (74) @ 2200 rpm
Max torque	Nm @ 1500rpm	300	300
Emissions		EU Stage V	EU Stage V
After-treatment		DPF	DPF

LOADER DIMENSIONS

Model (assumes machine is fitted with Camso SLR4 12.5-18 tyres (407 only) and Mitas MPT-04 16.0/70-20 tyres (409 only).		407					409				
Bucket Type		General purpose	General purpose	Light duty	Light duty	6 in 1 clam shovel	General purpose	General purpose	Light duty	Light duty	6 in 1 clam shovel
Bucket Equipment		Teeth or toeplate		Toeplate		Teeth or toeplate	Teeth or toeplate		Toeplate		Teeth or toeplate
Bucket Capacity (SAE heaped)	m3	0.8	1	1.2	1.4	0.75	1	1.2	1.4	1.6	0.9
Bucket width	mm	1900	1900	1900	1900	1900	1950	1950	2100	2200	1950
Bucket weight	kg	287	322	353	384	435	332	358	399	434	436
Max. material density	kg/m3	2050	1620	1320	1120	2100	1957	1602	1346	1157	2090
Tipping load straight	kg	4323	4245	4149	4108	4127	4583	4503	4415	4337	3830
Tipping load full turn	kg	3326	3265	3193	3160	3174	3648	3584	3513	3452	3507
Payload	kg	1663	1633	1596	1580	1587	1824	1792	1756	1725	1754
Max. breakout force	kN	41.9	36.5	32.2	29.7	41.9	53.8	46.6	43.1	41.6	50.8
M Dump angle maximum	degrees	45	45	45	45	45	45	45	45	45	45
N Roll Back angle full height	degrees	56	56	56	56	56	56	63.6	63.6	63.6	63.6
O Roll Back at carry	degrees	54	54	54	54	54	54	53.1	53.1	53.1	53.1
P Roll Back at ground level	degrees	42	42	42	42	42	41	41	41	41	41
Q Load over height	mm	2991	2991	2991	2991	2991	3189	3189	3189	3189	3189
R Dump height (45deg Dump)	mm	2489	2418	2348	2295	2489	2619	2552	2500	2446	2609
S Dig depth	mm	105	105	105	105	106	60	60	60	60	60
T Reach at dump height	mm	764	835	905	958.5	764	523	599	652	705	523
Reach maximum(45deg dump)-horizontal arm	mm	1494	1465	1635	1689	1494	523	599	652	705	523
Operating weight(includes 75Kg operator and full fuel and urea tanks)	kg	5063	5097	5128	5159	5210	5927	5953	5994	6029	6031
V Pin height	mm	3120	3120	3120	3120	3120	3340	3340	3340	3340	3340



TYRE SIZE – 407

Tyre Size	Manufacturer	Type	Operating Weight kg	Dimensions	
				Vertical mm	Width mm
335/80 R18	Dunlop	SPT9 EM	41	-4	0
365/70 R18	Dunlop	SPT9 EM	64	-14	69
405/70 R18	Dunlop	SPT9 EM	94	9	113
335/80 R20	Dunlop	SPT9 MPT	77	22	-22
335/80 R18	Michelin	XZSL	82	9	14
340/80 R18	Michelin	XMCL	72	-6	25
340/80 R18	Nokian	TRI 2	56	1	12
12.5-18	Camso	SLR4	0	0	0
12.5/80-18	Camso	SLR4	0	-15	-15

Loader dimensions quoted on 12.5-18 wheels and tyres.

TYRE SIZE – 409

Tyre Size	Manufacturer	Type	Operating Weight kg	Dimensions	
				Vertical mm	Width mm
405/70 R18	Dunlop	SPT9 EN	-56	-24	-8
335/80 R20	Dunlop	SPT9 MPT	-73	-3	-85
365/80 R20	Dunlop	SPT9 MPT	-55	-17	-51
405/70 R20	Dunlop	SPT9 MPT	-14	10	-7
375/75 R20	Michelin	XZSL	-1	-4	-13
380/75 R20	Michelin	XMCL	-13	-4	-15
400/70 R20	Michelin	XMCL	0	-4	4
405/70 R20	Michelin	XZSL	25	19	10
420/75 R20	Michelin	XMCL	38	23	10
340/80 R18	Nokian	TRI 2	-82	-32	-65
360/80 R20	Nokian	TRI 2	-57	10	-51

Loader dimensions quoted on Mitas MPT-04 16.0/70-20 wheels and tyres.

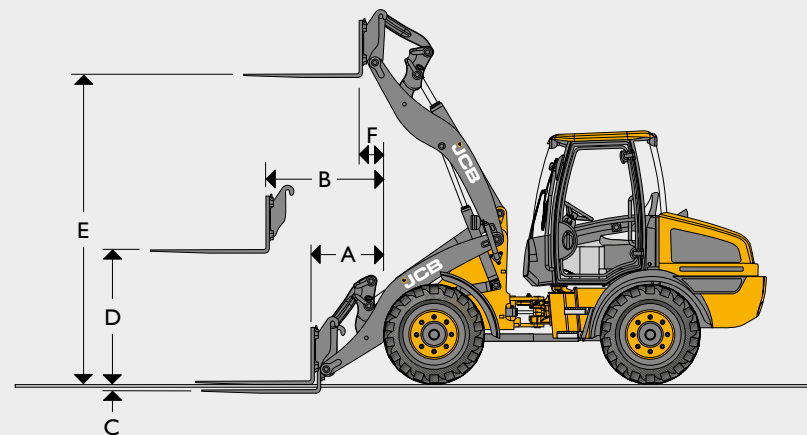
TRANSMISSION

		407	409
Type		Hydrosatic	Hydrosatic
Model		Rexroth A6VM – 2 speed	Rexroth A6VM – 2 speed
Model (35kph/40kph options)		Rexroth A6VM – 3 speed	Rexroth A6VM – 3 speed
Low range	kph	6.0	6.0
Low range (high speed)	kph	8.0	8.0
High range	kph	18.0	20.0
High speed (optional)	kph	35.0	40.0

AXLES

		407	409
Type		Straight beam	
Make and model		Dana III	
Chassis angle oscillation	degrees	± 10	

LOADER DIMENSIONS – FORK FRAME WITH FORKS



		Parallel fork	
		407	409
	Fork carriage width	mm	1345
	Length of tines	mm	1200
A	Reach at ground level	mm	710
B	Reach at arms horizontal	mm	1232
C	Below ground level	mm	84
D	Arms, horizontal height	mm	1426
E	Arms, maximum height	mm	3012
F	Reach at maximum height	mm	506
	Payload*	kg	2142
	Tipping load straight	kg	3324
	Tipping load full turn (40 deg)	kg	2600
	Attachment weight	kg	191

*At the centre of gravity distance 500mm. Based on 80% of FTTL as defined in ISO 8313.

Manual fork spacings at 50mm increments. Fork section 100mm x 50mm.

ELECTRICAL SYSTEM			
			407/409
System voltage	Volt		12
Alternator output	Amp hour		100
Battery capacity	Amp hour		100

HYDRAULICS			
		407	409
Pump type		Single Gear Pump	Single Gear Pump
Pump type for High Flow Option		2 x Single Gear Pump	2 x Single Gear Pump
Pump max. pressure	bar	230	250
Auxiliary flow	l/min	60	83
Hydraulic cycle times at full engine	rpm		
Arms raise (full bucket)	seconds	4.9	
Bucket dump (full bucket)	seconds	3.5	4.1
Arms lower (empty bucket)	seconds	3.1	3
Total cycle	seconds	11.5	12
Hydraulics (High Flow)		plus 30l	
Pump max. flow	l/min	64	89

STEERING	Hydraulic power steering system and secondary steering system.
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SERVICE FILL CAPACITIES			
		407	409
Hydraulic system	litres	70	
Fuel tank	litres	80	
Engine oil sump	litres	11.2	
Axle oil (front)	litres	4.4	
Axle oil (rear)	litres	6.05	

NOISE AND VIBRATION					
		407	409	Uncertainty	Measurement conditions.
Noise at the operator station	LpA	78 dB	76 dB	+/- 1 dB	Determined in accordance with the test method defined in ISO 6396 and the dynamic test condition defined on 2000/14/EC.
Noise emission from the machine	LWA	101 dB	101 dB	+/- 1 dB	Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.
Whole body vibration	m/s ²	0.59	0.59	+/- 0.11 dB	ISO 2631-1:1997 normalised to an 8h reference period and based upon a test cycle comprising of loader work (soil).
Hand-arm vibration	m/s ²	<2.5	<2.5	N/A	ISO 5349-2:2001 dynamic test conditions.

EQUIPMENT		
GENERAL MACHINE FEATURES		
Parallel lift geometry	•	
JCB Hydraulic Quickhitch	•	
Articulated steering	•	
Front and rear fenders	•	
One piece opening bonnet	•	
Recovery hitch	•	
Lifting lugs	•	
Temperature controlled engine cooling fan	•	
HBVC	+	
4th Spool aux circuit	+	
LSD axles	+	
Locking differential front axle with on the fly operation (409 only)	+	
Immobiliser	+	
LiveLink	+	
Under the bonnet battery isolator	+	
Worklights	+	
Bio oil	+	
Aircon	+	
Constant flow	+	
High flow plus 30 l/min	+	
SRS	+	
35kph (407)	+	
40kph (409)	+	
Rockinger tow hitch (3.5 tonne)	+	
Rear aux. hydraulics	+	
Rear electrical connection	+	
Creep speed	+	
Shovel level indicator	+	
Stowage box	+	
Fully opening RH window with locks	+	
Eco Mode	•	
Auto Idle Shutdown	•	
TRANSMISSION		
Two speed	•	
Neutral start	•	
Inching function	•	
Forward/reverse switch on joystick control lever	•	
BRAKES		
In board oil immersed brakes with combined handbrake; cable operated park brake (407 only).	•	
In board oil immersed brakes with combined handbrake; spring actuated hydraulic released parkbrake (409 only)	•	
ELECTRIC		
Full road lighting	•	
Direction indicators	•	
Battery isolator	•	
HYDRAULICS		
Single lever servo control	•	
Gear pump with priority steer	•	
Emergency steer back up	•	
Flow sharing (409 only)	•	
CAB		
ROPS/FOPS safety structure	•	
Fully adjustable seat	•	
Interior light	•	
Adjustable tilt steering column	•	
Safety glass	•	
LCD display	•	
Front and rear screen wash/wipe	•	
3 speed heater fan with replaceable filters	•	
Radio aperture (high spec cab only)	•	
Sun visor	•	

SEE DEALER FOR FULL LIST

STANDARD •

OPTIONAL +



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

Wheel Loader 407/409

Gross power: 48kw (64hp)/55.4kW (74hp) Max. Operating weight: 5210kg/6031kg

JCB Sales Limited, Rocester, 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

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