



WHEEL LOADER | 407/409

Max. Engine power: 48kW (64hp) / 54.5kW (74hp) Max. Operating weight: 5210kg / 6031kg



PRODUCTIVE PERFORMANCE.

THE JCB 407 AND 409 ARE HIGHLY PRODUCTIVE WHEEL LOADERS WITH OPTIMAL POWER-TO-WEIGHT RATIO, MAKING THEM PERFECT TOOL CARRIERS. BOTH MACHINES ARE TIER 4 FINAL/STAGE 3B-COMPLIANT USING JUST A DIESEL OXIDATION CATALYST (DOC). THEY'RE ALSO MORE FRUGAL THAN OUTGOING TIER 3 MODELS.

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



JCB Diesel by Kohler.

1 JCB has worked in close collaboration with Kohler to produce the ultimate compact wheeled loader engine. No engine power is wasted on a DPF and, with peak power and torque produced at low revs, you get good fuel economy too. Our design also makes dimensions compact for small turning circles.

2 Our 407 and 409 machines are equipped with a variable speed engine crank-driven cooling fan that maintains optimum fan speed for all requirements without using any excess engine power.

3 The JCB 407 and 409 have a high speed option – this provides a top speed of 35km/h (407) and 40 km/h (409).



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Moving with the times.

4 JCB's articulated steering boasts an easy-to-use built-in sideshift – ideal for all handling tasks as well as changing attachments.

5 So that you can tailor your wheel loader to any application, we offer several 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 it's 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 wheeled loader solution.

Versatility by the bucketload.

7 Equip your wheeled loader with our new towing option and you'll get a hitch with rear electrics and hydraulics, allowing you to trailer loads of up to 3.5 tonnes.

8 By splitting power between the transmission and the hydraulics, our inching pedal allows precise, efficient, stepless load handling.

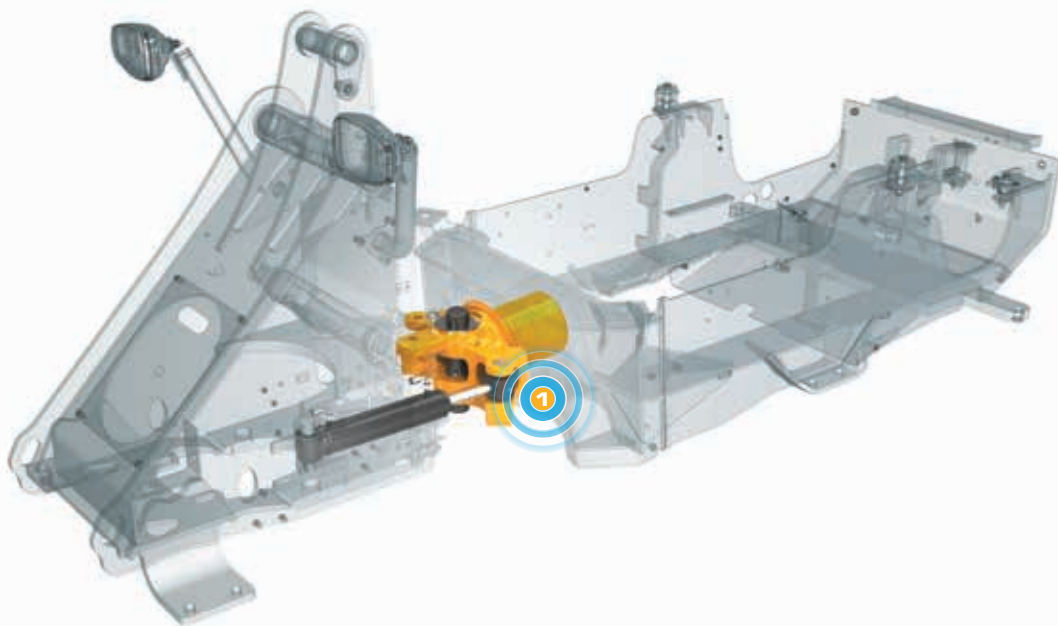


With our High Flow option, you get an extra 30 litres of hydraulic capacity for an enhanced flow rate.



QUALITY, RELIABILITY AND DURABILITY.

AT JCB, WE UNDERSTAND THAT A WHEEL LOADER IS A CRUCIAL PART OF MANY FARMS. THAT'S WHY THE 407 AND 409 ARE BUILT ON A FOUNDATION OF QUALITY AND RELIABILITY, ENSURING THAT THEY'LL ALWAYS BE A KEY PART OF YOUR WORKING PROCESS.



We've used only the very finest engine, driveline and axle components on the 407 and 409, from suppliers like DANA and Bosch.



Built to last.

- 1 We understand how tough materials handling can be, so our machines are developed to be highly durable. A case in point is our heavy-duty centre joint, which oscillates through $\pm 10^\circ$.
- 2 These machines benefit from a strong chassis and the best possible weight distribution; this allows for the best possible absorption of external forces.



Quality design.

- 3 The JCB 407 and 409 all have rear lights that are recessed within the solid counterweight casting for good impact protection.
- 4 Hydraulic hoses are always well protected; they're neatly routed, properly clamped, and positioned well away from potential pinching spots.
- 5 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.
- 6 Precision machining provides high tolerances and accurate location of pins and bushes.
- 7 Finite element analysis and rig testing ensure superior structural strength and durability. Cold cell testing guarantees starting performance at temperatures as low as -20°C.



COMFORT AND EASE OF USE.

JCB COMPACT WHEEL LOADERS LIKE THE 407 AND 409 ARE DESIGNED TO MAKE WORK MORE STRAIGHTFORWARD. THEY'RE EASY TO ACCESS, INTUITIVE TO OPERATE, AND THEY'RE OPERATED FROM THE CENTRE OF THE MACHINE FOR SUPERB VISIBILITY. AFTER ALL, A COMFORTABLE, CONFIDENT OPERATOR IS A MORE PRODUCTIVE ONE.

In-cab noise levels on these machines are lower than outgoing models.

A comfortable operator.

1 The JCB 407 and 409 benefit from a comfortable and spacious cab. The operating position is designed for optimum all-round visibility, unhindered by components like silencers.

2 Our tilting telescopic steering column is easy to adjust for an ergonomic driving position.

3 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.

4 With a fully opening right-hand window operators can enjoy increased ventilation whilst still being protected from dust.



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In complete control.

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

6 These compact wheel loaders are equipped with an ergonomically designed joystick control system for comfortable and intuitive operation.



SERVICEABILITY.

A WHEEL LOADER NEEDS TO SPEND AS MUCH TIME AS POSSIBLE HARD AT WORK. THAT'S WHY THE JCB 407 AND 409 BENEFIT FROM INNOVATIVE DESIGN AND QUALITY COMPONENTS, ALLOWING THEM TO OFFER MAXIMUM UPTIME WITH LONG SERVICE INTERVALS.

Access all areas.

- 1 Our large single piece bonnet ensures quick and convenient access to the engine bay and cooling pack areas of your wheel loader. All daily check points are easily accessed under the bonnet.
- 2 Operators and managers alike can access vital information like machine running times, fuel consumption and error alerts – it's all available at the touch of a button on the in-cab display or if needed via JCB's LiveLink telematics system.
- 3 A cyclonic pre-filter maximises air filtration and extends filter element service intervals significantly.

JCB does not use a Diesel Particulate Filter (DPF) or SCR, requiring AdBlue fluid level maintenance or heat-resistant lube oils. The new Kohler engine designed by JCB doesn't, thus reducing service and running costs.



- 4 Your local JCB dealer will be able to supply all parts for your 407 or 409, even JCB Diesel by Kohler engine components. Both machines also share parts with other JCB machinery, which makes everything even more readily available.



SAFETY AND SECURITY.

BECAUSE SAFETY AND SECURITY ARE PARAMOUNT ON ANY FARM, 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.

Safety first.

The 407 and 409 can be equipped with a new immobiliser option, which can help prevent thefts from your fleet.

1 With no exhaust after treatment, our JCB Diesel by Kohler engines are extremely compact, so there's no compromise to visibility. The sloping rear bonnet provides an unimpeded view, with the exhaust silencer and air intake filter both packaged out of sight.

2 We've fitted an in-cab electronic 2-stage quickhitch isolation system to prevent uncontrolled release of attachments.

3 The access step is complemented by well positioned handles so that operators have three points of contact whenever they're entering or exiting the cab.



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.



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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.



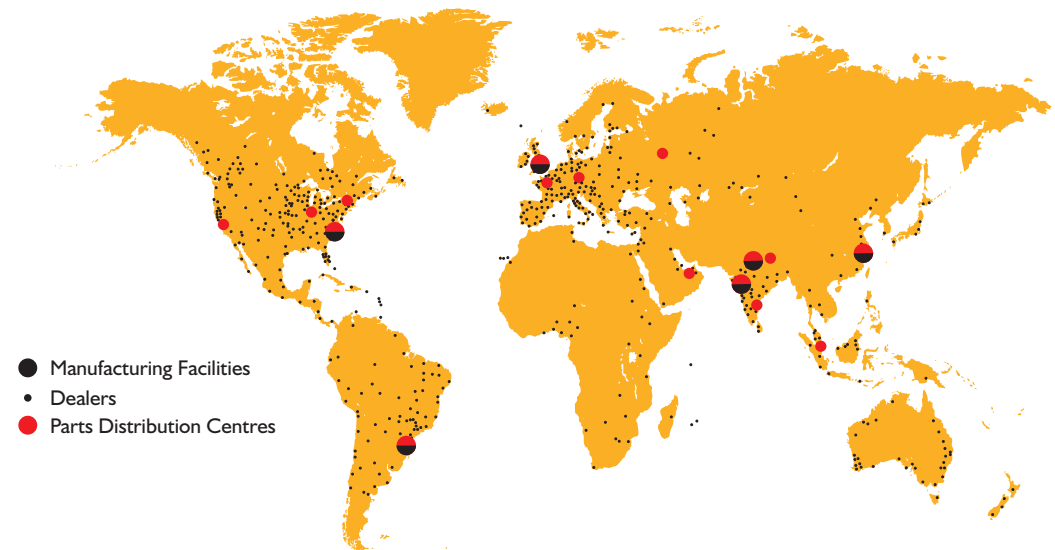
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3 JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labour rates,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

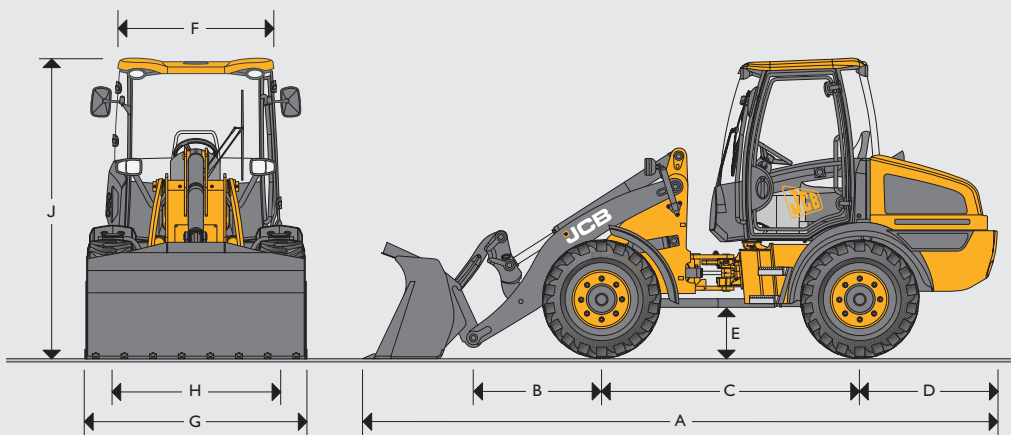


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Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.



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 | Minimum ground clearance | mm | 313 | 346 |
| 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 | mm | 4160 | 4432 |
| | Articulation angle | deg | ±40° | ±40° |
| | Max. radius over tyre | mm | 3800 | 3979 |
| | Max. width across tyres | mm | 1864 | 1900 |

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

409 data based on machine equipped with pin mounted 1.0 m³ bucket with toe plates and Mitas MPT-04 tyres.

ENGINE

| | | 407 | 409 |
|---|--------------|-------------------------------------|-----------------------------------|
| Type | | 4 stroke, Electronic Common Rail | 4 stroke, Electronic Common Rail |
| Model | | JCB Diesel by Kohler - KDI 2504 TCR | 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) @ 2200rpm | 54.5 (74) @ 2200rpm |
| Max. torque | Nm @ 1500rpm | 300 | 300 |
| Emissions | | Stage IIIB & T4F | Stage IIIB & T4F |

TRANSMISSION

| | | 407 | 409 |
|-----------------------|-----|------------------------|------------------------|
| Type | | Hydrostatic | Hydrostatic |
| Model | | Rexroth A6VM – 2 speed | Rexroth A6VM – 2 speed |
| Model (40kph options) | | Rexroth A6VM – 3 speed | Rexroth A6VM – 3 speed |
| Low range | kph | 6 | 6 |
| High range | kph | 18 | 20 |
| High speed (optional) | kph | 35 | 40 |

AXLES

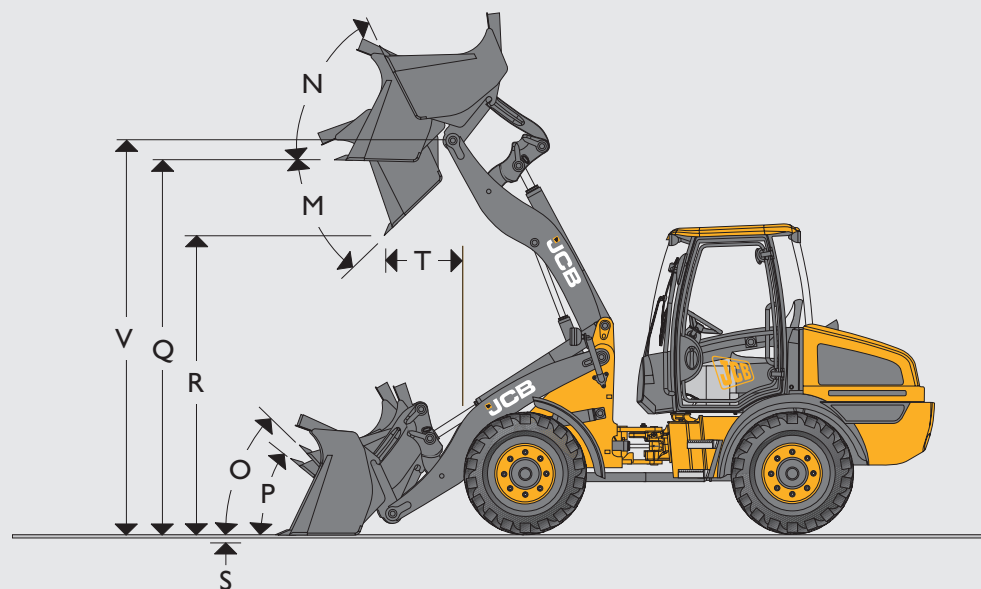
| | | 407 | 409 |
|---------------------------|---------|---------------|---------------|
| Type | | Straight beam | Straight beam |
| Make and model | | Dana 111 | Dana 111 |
| Chassis angle oscillation | degrees | ± 10 | ± 10 |

BRAKES

In board oil immersed brakes with combined handbrake; spring actuated hydraulic released park brake.

LOADER DIMENSIONS

| Model (assumes machine is fitted with Camso SLR4 12.5-18 tyres) | | 407 | | | | | 409 | | | | |
|---|-------------------|-------------------|-----------------|------------|------------|--------------------|-------------------|-----------------|------------|------------|--------------------|
| Shovel 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 |
| Shovel equipment | | Teeth or toeplate | | Toeplate | | Teeth or toeplate | Teeth or toeplate | | Toeplate | | Teeth or toeplate |
| Shovel capacity (SAE heaped) | m ³ | 0.8 | 1 | 1.2 | 1.4 | 0.75 | 1 | 1.2 | 1.4 | 1.6 | 0.9 |
| Shovel width | mm | 1900 | 1900 | 1900 | 1900 | 1900 | 1950 | 1950 | 2100 | 2200 | 1950 |
| Shovel weight | kg | 287 | 322 | 353 | 384 | 435 | 332 | 358 | 399 | 434 | 436 |
| Max. material density | kg/m ³ | 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 |
| Maximum 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 max. | degrees | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| N Roll back angle full height | degrees | 56 | 56 | 56 | 56 | 56 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 |
| O Roll back at carry | degrees | 54 | 54 | 54 | 54 | 54 | 53.1 | 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 (45 deg 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 max. (45deg dump) – horizontal arm | mm | 1494 | 1465 | 1635 | 1689 | 1494 | 523 | 599 | 652 | 705 | 523 |
| Operating weight (includes 80Kg operator and full fuel tank) | 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 | Op weight (kg) | Dimensions | |
|------------|--------------|----------|----------------|---------------|------------|
| | | | | Vertical (mm) | Width (mm) |
| 335/80 R18 | Dunlop | SPT9 EM | +41.2 | -4 | 0 |
| 365/70 R18 | Dunlop | SPT9 EM | +64.16 | -14 | +69 |
| 405/70 R18 | Dunlop | SPT9 EM | +94.00 | +9 | +113 |
| 335/80 R20 | Dunlop | SPT9 MPT | +77.44 | +22 | -22 |
| 335/80 R18 | Michelin | XZSL | +81.6 | +9 | +14 |
| 340/80 R18 | Michelin | XMCL | +71.6 | -6 | +25 |
| 340/80 R18 | Nokian | TRI 2 | +55.6 | +1 | +12 |
| 12.5-18 | Camso | SLR4 | 0.00 | 0 | 0 |
| 12.5/80-18 | Camso | SLR4 | 0.00 | -15 | -15 |

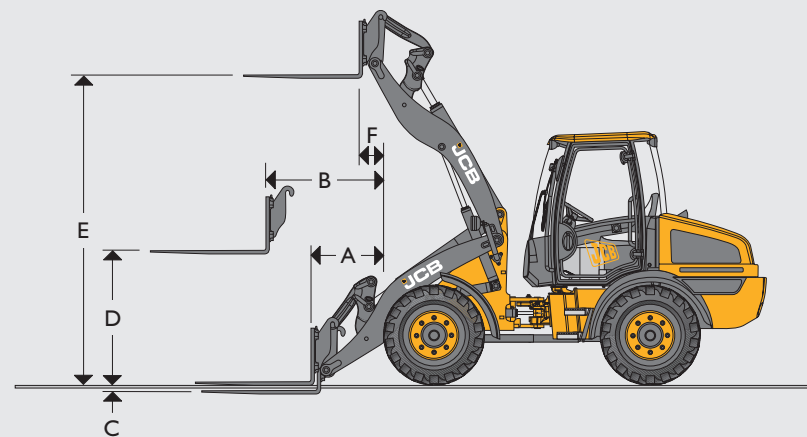
Loader dimensions quoted on 12.5-18 Wheels and Tyres.

TYRE SIZE – 409

| Tyre size | Manufacturer | Type | Op weight (kg) | Dimensions | |
|------------|--------------|----------|----------------|---------------|------------|
| | | | | Vertical (mm) | Width (mm) |
| 405/70 R18 | Dunlop | SPT9 EM | -56.36 | -8 | -8 |
| 335/80 R20 | Dunlop | SPT9 MPT | -72.96 | -85 | -85 |
| 365/80 R20 | Dunlop | SPT9 MPT | -55.20 | -51 | -51 |
| 405/70 R20 | Dunlop | SPT9 MPT | -13.67 | -7 | -7 |
| 375/75 R20 | Michelin | XZSL | -0.80 | -13 | -13 |
| 380/75 R20 | Michelin | XMCL | -12.80 | -15 | -15 |
| 400/70 R20 | Michelin | XMCL | 0.00 | +4 | +4 |
| 405/70 R20 | Michelin | XZSL | +24.80 | +10 | +10 |
| 420/75 R20 | Michelin | XMCL | +38.00 | +10 | +10 |
| 340/80 R18 | Nokian | TRI 2 | -82.40 | -65 | -65 |
| 360/80 R20 | Nokian | TRI 2 | -56.80 | -51 | -51 |

Loader dimensions quoted on 16.0/70-20 Wheels and Tyres.

LOADER DIMENSIONS – FORK FRAME WITH FORKS



| | | Parallel fork | | |
|---|------------------------------|---------------|------|------|
| | | 407 | 409 | |
| | Fork carriage width | mm | 1345 | 1345 |
| | Length of tines | mm | 1200 | 1200 |
| A | Reach at ground level | mm | 710 | 724 |
| B | Reach at arms horizontal | mm | 1232 | 1187 |
| C | Below ground level | mm | 84 | 17 |
| D | Arms, horizontal height | mm | 1426 | 1396 |
| E | Arms, max. height | mm | 3012 | 3231 |
| F | Reach at max. height | mm | 506 | 231 |
| | Payload* | kg | 2142 | 2366 |
| | Tipping load straight | kg | 3324 | 3787 |
| | Tipping load full turn (40°) | kg | 2600 | 2907 |
| | Attachment weight | kg | 191 | 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 | 80 |
| 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 | | | |
| Arms raise (full bucket) | Seconds | 4.9 | 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 | plus 30l |
| Pump max. flow | l/min | 64 | 89 |

| SERVICE FILL CAPACITIES | | | |
|-------------------------|--------|------|------|
| | | 407 | 409 |
| Hydraulic system | litres | 70 | 70 |
| Fuel tank | litres | 80 | 80 |
| Engine oil sump | litres | 11.2 | 11.2 |
| Axle oil (front) | litres | 4.4 | 4.4 |
| Axle oil (rear) | litres | 6.05 | 6.05 |

| STANDARD EQUIPMENT | | | |
|---------------------------------|--|--|---|
| | | 407 | 409 |
| 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. | |
| TRANSMISSION | | | |
| BRAKES | | In board oil immersed brakes with combined handbrake; cable operated parkbrake. | In board oil immersed brakes with combined handbrake; spring actuated hydraulic released parkbrake. |
| ELECTRIC | | | |
| HYDRAULICS | | Single lever manual control, gear pump with priority steer, emergency steer back up. | Single lever servo control, gear pump with priority steer, emergency steer back up, flow sharing. |
| 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. | |

| OPTIONAL EQUIPMENT | | | |
|---------------------------------|--|---|--|
| | | 407/409 | |
| GENERAL MACHINE FEATURES | | HBCV, 4th Spool aux circuit, LSD axles, locking differential front axle with on the fly operation (409 only), immobiliser, livelink, under bonnet battery isolator, worklights, bio oil, aircon, constant flow, high flow plus 30 l/min., SRS, Rockinger Tow hitch 3.5t, rear aux. hydraulics, rear electrical connection, creep speed, shovel level indicator, stowage box, fully opening RH window with locks. See Dealer for full list. | |

| 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. |



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

Wheel Loader 407/409

Max. Engine power: 48kW (64hp) / 54.5kW (74hp). Max. Operating weight: 5210kg / 6031kg

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