

WHEEL LOADER | 419S

Operating weight: 10613kg Gross engine power: 136kW (183hp) Full turn tipping load: 6695kg Standard shovel capacity: 1.6m³



A QUALITY PROCESS.

WE KNOW THAT A WHEEL LOADER IS A KEY PART OF THE FARM'S PROCESS. THAT'S WHY THE JCB 419S IS BUILT ON A FOUNDATION OF QUALITY AND RELIABILITY. THE PROCESSES WE'VE USED TO DESIGN AND MANUFACTURE THEM WILL SAFEGUARD YOUR WORKING PROCESS, HOUR AFTER HOUR, DAY AFTER DAY.



Designed to work hard.

- 1 Finite element analysis, as well as extensive endurance and rig testing ensure superior structural strength and durability. Cold cell testing guarantees starting performance down to -20°C.
- The front chassis features additional ribs and gussets for maximum strength.

Precision machining provides high tolerances and accurate location of pins and bushes.





Protecting ancillaries.

A solid cast rear counterweight protects the rear of the machine - including the rear lights and cooling pack - from damage.

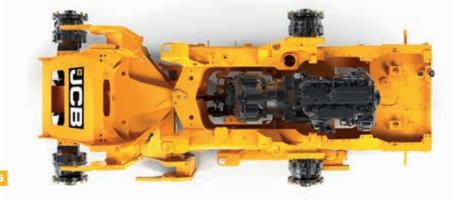
Well articulated.

- 4 Hoses are neatly routed and clamped through the articulation joint, well away from any pinch points.
- Designed to tolerate both vertical and horizontal loadings, the articulation joint has a heavy-duty centre pin and oversized bush, as well as twin taper roller bearings on the top box joints.

The 419S has integral steel fluid tanks for the ultimate in leak protection; a far superior solution to the plastic tanks favoured by some competitors.









PRODUCTIVE PERFORMANCE.

THE 419S CAN PERFORM GREAT FEATS OF PRODUCTIVITY. DELIVERING A MASSIVE 183HP, AND WEIGHING UNDER II TONNES, THE MACHINE HAS A HUGE POWER-TO-WEIGHT RATIO OF 16.8HP/TONNE FOR ULTIMATE PUSHING, CLIMBING AND ROADING PERFORMANCE.

Drivetrain performance.

1 The Cummins QSB 6.7-litre engine achieves maximum engine power (136kW) and peak torque (841Nm) at low revs for excellent response.

A variable geometry turbocharger provides increased performance at low engine speed for improved cycle times and tractive effort.

Loading productivity.

- ☑ JCB's optional quickhitch makes attachment changing quick and efficient. The quickhitch is designed to be compatible with aftermarket attachments too.
- Powerful single variable displacement piston pump hydraulics can circulate an incredible 180 l/min for fast cycles and excellent multi-function capability.

Optional 10 tonnes hydraulic or mechanical tow hitch with hydraulic trailer brakes and 12V trailer electrics further improve versatility on the 419S.







Loading productivity (continued).

The high torque (HT) arm design on the 419S gives greater visibility to the loader end, as well as offering parallel lift, making it ideal for multi-attachment use. Constant torque throughout the full carriage rotation provides excellent power and attachment control. Choose a HT high lift on the 419S and you can use the machine for higher loading height applications (hopper, trailer and spreader loading).

Drivetrain productivity.

The unique 6-speed transmission with torque convertor lock-up in every gear provides closer gear ratios for better acceleration, hill climbing and roading performance. The lock-up element eliminates losses from the torque converter for faster cycle times and improved efficiency.

- The innovative electronic management can perform progressive clutch cut-off for efficient, productive loader control. This feature controls tractive effort via the transmission, diverting maximum power to the loader hydraulics and reducing service brake wear and fuel consumption.
- With a choice of axle options you can tailor a 419S to any application.
- Limited slip differential is perfect for soft, muddy terrain with reduced traction.
- Open differentials with an automatic locking front axle differential provide excellent traction in varied ground conditions ideal for straight line pushing.







EFFICIENT BY DESIGN.

THE JCB 419S IS DESIGNED TO MOVE MORE MATERIAL FOR LESS. TO ACHIEVE THIS, WE'VE DESIGNED THE ENGINE, AXLES, DRIVELINE AND HYDRAULICS TO WORK IN HARMONY WITH EACH OTHER, FOR ULTIMATE EFFICIENCY.

An efficient engine.

- 1 A hydraulic cooling fan automatically reacts to ambient temperature and adjusts the fan speed to optimise energy and reduce fuel consumption. An additional benefit of this setup is reduced noise levels.
- Eco Mode caps engine speed at 1800rpm for reduced fuel consumption. Productivity nonetheless remains formidable.
- Our torque lock-up 6 speed transmission gives you up to 100% efficiency in all gears for improved fuel consumption. Closer gear ratios provide lower engine speed in each gear.







An efficient engine (continued).

- Wheel speed braking means the brakes rotate at the same speed as the wheels for heat and drag reduction, as well as improved fuel economy and access for maintenance and repairs.
- Unloaded spool valves in the valve block mean that arms lower under gravitational, not hydraulic force, reducing fuel consumption.
- G JCB's innovative variable displacement pump feeds a load-sensing valve block which only consumes power on demand, providing precise, efficient loader control.
- No DPF means unnecessary additional fuel piping is eliminated as is the potentially dangerous temperatures involved in regeneration. The fuel that would have been needed to restore your DPF can be used instead for actual productive work.









Adjustable Auxiliary control.



Adjustable reversing fan intervals.







COMMANDPLUS.

THE LATEST JCB 419S WHEEL LOADER BOASTS OUR ALL-NEW COMMAND PLUS CAB. THIS UNIQUE APPROACH TO ERGONOMICS IS THE RESULT OF A RADICAL RETHINK AND A RIGOROUS RESEARCH PROGRAMME. EXPECT BEST-IN-CLASS COMFORT, VISIBILITY, ERGONOMICS AND QUIETNESS.

See the difference.

- 1 You'll immediately notice the totally redesigned ROPS structure; this has allowed the A pillars to be moved to the same width as the rear of the cab, providing a larger interior with a superb panoramic front windscreen. All switches and auxiliary controls are now located on the right-hand A-pillar for easier access.
- Using your machine's simple, dedicated menu interface is easily done with an intuitive optional rotary controller.
- Operating your 419S loader is now easier than ever. All of the controls are seat-mounted, even going as far as to move with the seat suspension. You can also select the control system that's best for your operators: choose from single lever joystick or multilever configurations, all using electro-hydraulics for the ultimate in precision.
- 1 There are two full colour LCD screens to navigate the operating menus, one of which doubles as a monitor for the optional rear-view camera and CommandPlus control menu.













- To keep the operator environment comfortable for working at all times, we've positively pressurised the cab to eliminate dust and fumes.
- Fafter extensive research into operator ergonomics, we've devised the Command Driving Position, which boasts the very optimal control layout for a multitude of different driver shapes and sizes available, ranging from an air suspension standard seat to a super deluxe half leather seat, featuring fully adjustable heating and cooling functionality, electrically adjustable lumber support and adjustable dampers.
- A set and forget feature makes operator access even easier. In short, your preferred steering wheel position is stored and can be instantly returned to, even after you've folded the wheel away.

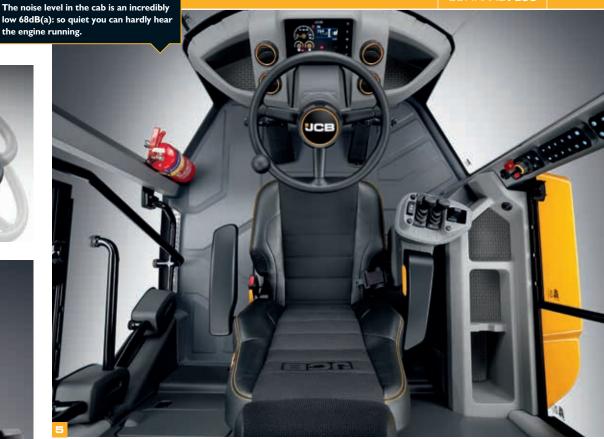
Specify your 419S with either air conditioning or automatic climate control to create perfect working temperatures. With a dedicated media port on board, you can be assured of superb connectivity for all your electronic devices. A sliding window on both sides of the cab allows easy communication with people outside the machine.

The electronic handbrake offers numerous advantages: it's quick and easy to operate, and, because there's no cable, there are fewer holes in the cab. This helps to isolate the operator environment further.

Opt for the in-cab cool box, keeping food and beverages cool.











LOW MAINTENANCE LONG INTERVALS.

WHEEL LOADERS NEED TO SPEND THE MAXIMUM AMOUNT OF TIME HARD AT WORK. WE'VE DESIGNED THE 419S TO DO JUST THAT, WITH LONG SERVICE INTERVALS AND QUALITY COMPONENTS.

Routine maintenance.

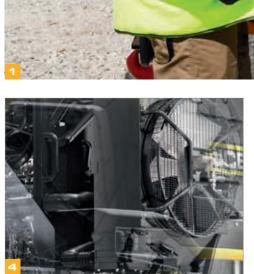
- 1 It's easy to get to the engine on a new JCB 419S with a large opening single-piece bonnet.
- Accessing the DEF (Diesel Exhaust Fluid) tank is similarly straightforward via the rear of the machine.

You can check washer fluid levels, engine oil and coolant from inside the cab, with all other routine checks and grease points located at ground level. This makes life both easier and safer.

Most Tier 4 Final/Stage IV engines use a costly Diesel Particulate Filter (DPF) that can cost a lot of money and time when it needs replacing. The Cummins engine is DPF-free, reducing your servicing and running costs.

- 4 A large single-faced wide-core cooling pack package with auto reverse fan, provides unrivalled quick, easy and safe cleaning.
- With the optional auto lubrication kit, your machine will take care of its own greasing requirements.









Less servicing, more service.

The CommandPlus cab relays machine condition giving real time alerts, safeguarding both the machine and the operator.

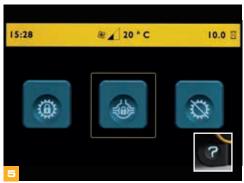
The intuitive CommandPlus help function provides the operator with meaningful descriptions of in-cab switch function. Using the "?" button, this allows new or unfamiliar operators to quickly and easily understand machine functions without having to refer to the operators manual.

- By using premium components in the 419S (Cummins engine, ZF transmission and axles, Rexroth pump and Husco valve block), we've built in long service life as standard.
- Full hydraulic dual circuit braking with multiple oil immersed discs gives the braking system a virtually maintenance-free lifespan.

A cyclonic engine fan scavenge filter provides four times the filtering capacity of a standard air filter. It's a longer life system, with fewer components and a higher level of efficiency, making for better engine protection. There's a large 250-litre fuel tank fitted, which ensures maximum working hours between refills.

Heating and ventilation filters are conveniently located behind an external access panel. The main fuse board and relays have been repositioned next to the door for easy access.









10.0 E





DRIVE SAFELY.

THE NEW JCB 419S IS
DESIGNED TO KEEP THE
OPERATOR AND YOUR FARM
SAFE AT ALL TIMES. GREATER
VISIBILITY, NON- SLIP
SURFACES AND FULL ROPS/
FOPS PROTECTION ARE
JUST THE START.

Safely does it.

- 1 Our rear-view camera displays an unobstructed rearward view on the in-cab colour monitor onboard your 419S.
- Superb visibility in dark conditions is guaranteed with JCB's optional 360 degree LED lighting.
- You'll find the rear-view mirrors mounted in front of the A-pillars for improved all-round visibility.

Interior mirrors, electrical adjustable heated exterior mirrors and rear camera combine to offer excellent views to every corner of your machine.

4 Visibility over the rear bonnet is excellent because the air cleaner is underneath the bonnet and the exhaust stack is located centrally.









Safely does it (continued).

- Access steps on the 419S are inclined and equally spaced, complemented by well positioned grab handles for three points of contact at all times.
- Full fender coverage flaps have been carefully designed to keep forward spray to a minimum for all tyre options. This increases safety and decreases debris build-up.
- The cab is isolator-mounted, compliant with ROPS/FOPS standards, and positively pressurised against dust. You can choose from fresh air or carbon filters as well.
- Engines fitted with a DPF can pose an increased fire risk because extreme heat can be created in regeneration mode. The new 419S doesn't use a DPF, so this is no cause for concern.









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

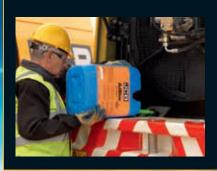
By providing information like idle time monitoring and machine fuel consumption, JCB LiveLink helps reduce your fuel usage, saving money and improving productivity. Machine location information can help improve efficiency and perhaps even reduce insurance costs.





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.



A GREAT BUSINESS DECISION.

WE'LL PROVIDE YOU WITH FIRST CLASS SUPPORT AND ASSISTANCE TO SUIT YOUR EXACT BUSINESS NEEDS RIGHT FROM DAY ONE. SO WHEREVER YOU ARE, YOUR MACHINE WILL ALWAYS PERFORM TO ITS FULL POTENTIAL — ONE OF MANY REASONS WHY STARTING A WORKING RELATIONSHIP WITH JCB IS A GREAT BUSINESS DECISION.

Machine selection.

Your JCB dealer has the right technical knowledge and expertise to ensure that you assess all the machine options available to you. This includes rental options and new or used machine sales.

Rebuild and Refurbishment Programme.

If your business isn't in a position to buy a brand new machine, then JCB's Rebuild and Refurbishment programme can help you to extend the service life of your current vehicle cost-effectively.

Technical support.

All local JCB dealers have instant access to factory expertise and technical support to provide you with the maximum machine uptime. JCB's Global Parts Centres, meanwhile, deliver around 95% of all parts anywhere in the world within 24 hours.

Component monitoring.

JCB machines benefit from a sophisticated component monitoring programme that provides preventative maintenance and oil sampling to keep everything working at its optimum level.

Service support.

We offer a range of extended warranties, from JCB PremierCover (full comprehensive cover) to JCB PowertrainCover (engine, axles, transmission and hydraulic pump cover). Service agreements, as well as service-only or Repair and Maintenance contracts ensure that we have the up-time of your wheel loading shovel totally covered. Our dealer maintenance specialists around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient repair work.

Finance and Insurance.

Finance and Insurance specialists are always on-hand to provide fast, flexible, competitive quotes.

Naturally, packages can be tailored to suit your specific business needs.



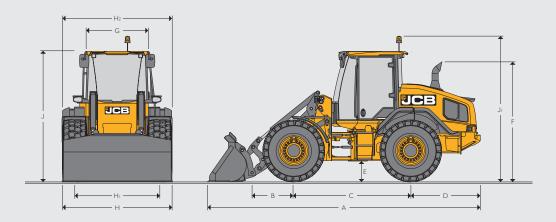


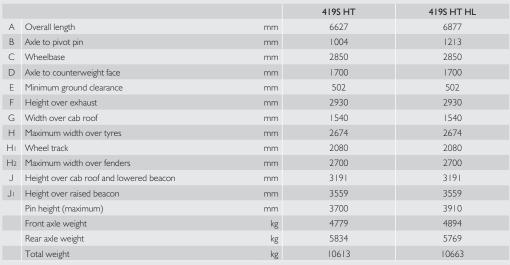


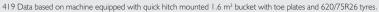


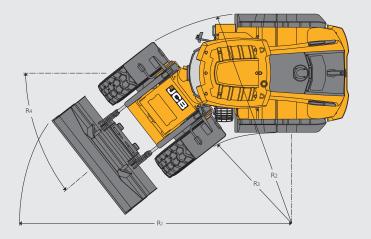


STATIC DIMENSIONS

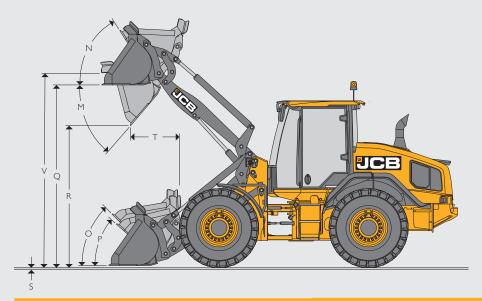








| | | | 419S HT | 419S HT HL |
|----|---------------------------------|---------|---------|------------|
| RI | Maximum turn radius over shovel | mm | 5740 | 5847 |
| R2 | Maximum turn radius over tyre | mm | 5503 | 5503 |
| R3 | Inside turn radius | mm | 2791 | 2791 |
| R4 | Articulation angle | degrees | 38 | 38 |



| TYRE SIZE | | | | | | | | | | |
|-----------|--------------|----------|--------|-----------------------|-----------|------------|------------|------------|----------------|-------------|
| | | | | | 4195 | SHT | 419S HT HL | | Dimensions | |
| Tyre size | Manufacturer | Туре | Rating | Operating weight (kg) | STL kg | FTTL kg | STL kg | FTTL kg | Vertical mm | Width mm |
| 17.5R25 | Michelin | XHA2 | L2 | -100 | -68 | -61 | -64 | -57 | -104 | -262 |
| 17.5R25 | Michelin | XSNOPLUS | L2 | -120 | -84 | -75 | -80 | -71 | -108 | -260 |
| 20.5R25 | Michelin | XHA2 | L2 | 344 | 234 | 208 | 221 | 197 | -68 | -220 |
| 20.5R25 | Michelin | XSNOPLUS | L2 | 260 | 177 | 158 | 167 | 149 | -79 | -240 |
| 500/70R24 | Michelin | XMCL | - | -360 | -245 | -218 | -231 | -206 | -129 | -99 |
| 620/70R26 | Michelin | CERAXBIB | - | -44 | -30 | -27 | -28 | -25 | -57 | 30 |
| 750/65R26 | Michelin | MEGAXBIB | - | 320 | 217 | 194 | 205 | 183 | 13 | 210 |
| 620/75R26 | BKT | AGRIMAX | - | 68 | 46 | 41 | 44 | 39 | 18 | 40 |
| 750/65R26 | BKT | AGRIMAX | - | 320 | 217 | 194 | 205 | 183 | 13 | 210 |

| LOADER DIMENSIONS 419S/419S HL | | | | | | | | | |
|---|----------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
| Model | | | 4199 | НТ | | | 419S H | IT HL | |
| Shovel mounting | | | Direct | Quickhitch | | Direct | | Quickhitch | |
| Shovel type | | | General | purpose | | General | | purpose | |
| Shovel equipment | | Tipped teeth | Reversible toeplate |
| Shovel capacity (SAE heaped) | m ³ | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Shovel capacity (struck)) | m^3 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| Shovel width | mm | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| Shovel weight | kg | 698 | 720 | 683 | 705 | 698 | 720 | 683 | 705 |
| Maximum material density * | kg/m³ | 2178 | 2178 | 2092 | 2092 | 2044 | 2044 | 1952 | 1952 |
| Tipping load straight * | kg | 7801 | 7801 | 7504 | 7504 | 7276 | 7276 | 7002 | 7002 |
| Tipping load full turn * | kg | 6970 | 6970 | 6695 | 6695 | 6542 | 6542 | 6247 | 6247 |
| Payload * | kg | 3485 | 3485 | 3347 | 3347 | 3271 | 3271 | 3123 | 3123 |
| Maximum breakout force | kN | 92 | 92 | 92 | 92 | 82 | 82 | 82 | 82 |
| M Dump angle maximum | degrees | 50 | 50 | 50 | 50 | 46 | 46 | 46 | 46 |
| N Roll back angle full height | degrees | 58 | 58 | 58 | 58 | 61 | 61 | 61 | 61 |
| O Roll back at carry | degrees | 45 | 45 | 45 | 45 | 48 | 48 | 48 | 48 |
| P Roll back at ground level | degrees | 42 | 42 | 42 | 42 | 45 | 45 | 45 | 45 |
| Q Load over height | mm | 3477 | 3477 | 3492 | 3492 | 3689 | 3689 | 3702 | 3702 |
| R Dump height (45 deg dump) | mm | 2750 | 2750 | 2715 | 2715 | 2997 | 2997 | 2958 | 2958 |
| S Dig depth | mm | 18 | 18 | 0 | 0 | 35 | 35 | 20 | 20 |
| T Reach at dump height | mm | 840 | 840 | 898 | 898 | 897 | 897 | 960 | 960 |
| V Pin height | mm | 3700 | 3700 | 3700 | 3700 | 3910 | 3910 | 3910 | 3910 |
| Reach maximum (45deg dump) - horizontal arm | mm | 1601 | 1601 | 1659 | 1659 | 1663 | 1663 | 1721 | 1721 |
| Operating weight (includes 75Kg operator and full fuel and DEF tanks) | kg | 10403 | 10403 | 10613 | 10613 | 10453 | 10453 | 10663 | 10663 |

Assumes machine is fitted with 620/75 R26 tyres, quickhitch and 1.6m 3 shovel with toe plate. * Based on 50% FTTL as defined in ISO 14397-1:2007.

SPECIFICATION 419S WHEEL LOADER

| ENGINE | | |
|--|-------------------|---|
| Туре | | Cummins |
| Model | | QSB |
| Capacity | litres | 6.7 |
| Aspiration | | Turbo Charged |
| Cylinders | | 6 |
| Max gross power to SAE J1995/ISO 14396 | kW (hp) @ 2100rpm | 129 (173) |
| Nett power to ISO 9249 | kW (hp) @ 2000rpm | 136 (183) |
| Max torque | Nm @ 1500rpm | 841 |
| Valves per cylinder | | 4 |
| Air cleaner | | Cyclonic pre-filter with engine fan scavenge system |
| Fan drive type | | Hydraulically driven cooling fan |
| Emissions | | EU Stage IV, US EPA Tier 4F |

| TRANSMISSION | | | |
|--------------|-----|------------------------|-------------------|
| | | with lock up converter | |
| Make | | | ZF |
| Model | | | 6WG160 |
| | | Forward | Reverse |
| 1 | kph | 5.45 | 5.73 (non-locked) |
| 2 | kph | 8.56 | 13.94 |
| 3 | kph | 13.22 | 32.07 |
| 4 | kph | 20.35 | - |
| 5 | kph | 30.42 | - |
| 6 | kph | 40 (48)* | - |

Note: Figures are dependant on tyre configurations and vary slightly.

* Over run option 21.527:1 and 48kph engine calibration, only when fitted with 620/75 R26 tyres and 750/65 R26 tyres.

| AXLES | |
|-----------------------|---------------|
| Make | ZF |
| Model | MT-L 3075 II |
| Overall axle ratio | 21.527 : 1 |
| Rear axle oscillation | +/- 9 Degrees |

All available with limited slip differential, open differential with auto-locking front.

| ELECTRICAL SYSTEM | | |
|-------------------|----------|---------|
| System voltage | Amps | 24 |
| Alternator output | Amp hour | 120 |
| Battery capacity | Amp hour | 2 x 110 |

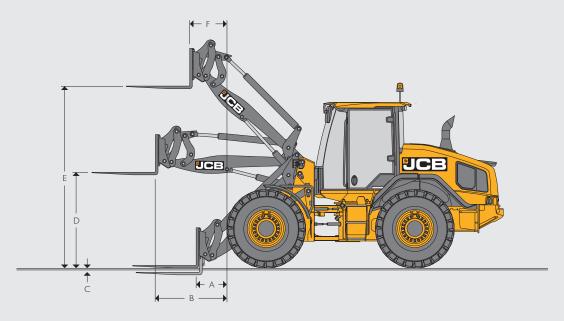
| HYDRAULICS | | | | | | |
|---|---------|-----------------------|--|--|--|--|
| Pump type | | Variable displacement | | | | |
| Pump I max. flow | l/min | 180 | | | | |
| Pump I max. pressure | bar | 230 | | | | |
| Hydraulic cycle times at full engine revs | | | | | | |
| Arms raise (full bucket) | Seconds | 3.86 | | | | |
| Shovel dump (full bucket) | Seconds | 1.53 | | | | |
| Arms lower (empty bucket) | Seconds | 2.4 | | | | |
| Total cycle | Seconds | 7.79 | | | | |

| SERVICE FILL CAPACITIES | | |
|-------------------------------|--------|------|
| Hydraulic system | litres | 155 |
| Fuel tank and auxiliiary tank | litres | 250 |
| DEF Tank | litres | 23.8 |

| STEERING | Hydraulic power steering system and emergency steering. |
|----------|--|
| BRAKES | Hydraulic power braking on all wheels. In-board mounted, sintered multi-plate disc brakes. Parking brake, electro-hydraulic disc type operating on transmission output shaft. |

| NOISE AND VIBRATION | | | | | | | |
|---------------------------------|------------------|--------|-------------|---|--|--|--|
| | | | Uncertaincy | Measurement conditions. | | | |
| Noise at the operator station | LpA | 68 dB | +/- I 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 | 104 dB | +/- I dB | Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC. | | | |
| Whole body vibration | m/s² | 0.53 | +/- 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 | N/A | ISO 5349-2:2001 dynamic test conditions. | | | |

LOADER DIMENSIONS WITH FORKS



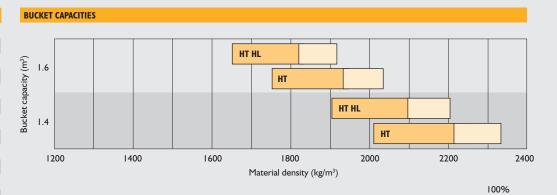
| LOADER DIMENSIONS WITH FORKS | | | | | |
|---|----|----------|--------------|------------|--------------|
| | | 419 | S HT | 419S HT HL | |
| | | Parallel | Non parallel | Parallel | Non parallel |
| Fork carriage width | mm | 1500 | 1500 | 1500 | 1500 |
| Length of tines | mm | 1220 | 1220 | 1220 | 1220 |
| A Reach at ground level | mm | 652 | 650 | 844 | 859 |
| B Reach at arms horizontal | mm | 1433 | 1421 | 1565 | 1571 |
| C Top of tine above ground with arms down | mm | 26 | 37 | 25 | 34 |
| D Arms, horizontal height | mm | 1852 | 1842 | 1852 | 1842 |
| E Arms, maximum height | mm | 3509 | 3499 | 3719 | 3709 |
| F Reach at maximum height | mm | 797 | 785 | 804 | 792 |
| Tipping load straight | kg | 6769 | 6744 | 6347 | 6322 |
| Tipping load full turn (40°) | kg | 6028 | 6017 | 5651 | 5640 |
| Payload* | kg | 4822 | 4814 | 4521 | 4512 |
| Attachment weight | kg | 435 | 430 | 435 | 430 |
| Operating weight (includes 75kg operator and full fuel and DEF tanks) | kg | 10343 | 10343 | 10393 | 10393 |

^{*} At the centre of gravity distance 600mm. Based on 80% of FTTL as defined in ISO 8313.

Machine is installed with 620/75R25 tyres, HT loader arm with non parallel links. Quickhitch, Fork and Frame 1500mm wide.

SPECIFICATION 419S WHEEL LOADER

| Material | Loose density | Fill factor |
|------------------------------|---------------|-------------|
| | kg/m³ | % |
| Snow (fresh) | 200 | 110 |
| Peat (dry(| 400 | 100 |
| Sugar beet | 530 | 100 |
| Coke (loose) | 570 | 85 |
| Barley | 600 | 85 |
| Petroleum coke | 680 | 85 |
| Wheat | 730 | 85 |
| Coal bitumous | 765 | 100 |
| Fertiliser (mixed) | 1030 | 85 |
| Coal anthracite | 1046 | 100 |
| Earth (dry) (loose) | 1150 | 100 |
| Nitrate fertiliser | 1250 | 85 |
| Sodium chloride (dry) (salt) | 1300 | 85 |
| Cement portland | 1440 | 100 |
| Limestone (crushed) | 1530 | 100 |
| Sand (dry) | 1550 | 100 |
| Asphalt | 1600 | 100 |
| Gravel (dry) | 1650 | 85 |
| Clay (wet) | 1680 | 110 |
| Sand (wet) | 1890 | 110 |
| Fire clay | 2080 | 100 |
| Copper (concentrate) | 2300 | 85 |
| Slate | 2800 | 100 |
| Magnetite | 3204 | 100 |



110%

Bucket fill factors

95%

 $HT = Standard \ height \ arm \ HT \ HL = High \ Lift \ arm \ HT \ SHL = Super \ high \ lift \ arm$

| EQUIPMENT | | | | | |
|---|---|--|---|---|---|
| SERVICE AND MAINTENANCE | | DRIVE TRAIN | | OPERATOR STATION (CONTINUED) | |
| 5 year LiveLink telematics | • | 6 speed transmission with lock-up torque converter | • | 50 mm seat belt | • |
| Engine oil remote drain and fill | • | Epicyclical wheel hub reduction | • | 75 mm seat belt | + |
| Grouped pressure test points | • | Fixed front axle | • | Fire extinguisher (UK only) | + |
| Lockable tool box | • | Gear kick down on loader control lever | • | Two speed intermittent front windscreen wipe/wash and self-park | • |
| Lubrication points accessible from ground level | • | Indicator glass for transmission oil level | • | Single speed rear windscreen wipe/wash and self-park | • |
| | | Loader lever direction control | • | 3 speed heater/demisting | • |
| ENGINE | | Neutral start | • | LH and RH sliding opening windows | • |
| Air cleaner – cyclonic pre filter with engine fan scavenge system | • | Open differential with automatic locking - I 00% (front axle only) | + | Floor mat | • |
| Automatically reversing cooling fan | • | Limited slip differentials front and rear | + | Cup holder | • |
| Crankcase breather oil trap | • | Oscillating rear axle | • | Steering wheel spinner knob | • |
| DEF fluid | • | Power-inch intelligent clutch cut off on footbrake (selectable) | • | Internal rear view mirror | • |
| Epoxy coated radiator / coolers | + | Selectable automatic power shift | • | Tinted cab glass | • |
| Fuel filter | • | Steering column single lever shift control (direction and gear) | • | Multi-media port (USB and 3.5mm) | • |
| Fuel pre-filter with water trap | • | Transmission cooler bypass | + | Operator stowage | • |
| Hydraulically driven cooling fan | • | | | Laminated windscreen | • |
| Manual opening rear bonnet | • | BRAKE SYSTEM | | Heated rear screen | • |
| -20° cold start | • | Multi-plate wet disc brakes | • | Loader control isolator | • |
| SCR engine emission control | • | Sintered brake pads | • | Horn | • |
| Waste gated turbo | • | Dual circuit hydraulic power | • | Adjustable armrest | • |
| Widecore radiator | • | Wheel speed braking | • | Removable storage rubber mats | • |
| Block heater (240V or 110V) | + | Parking disc brake on transmission output shaft | • | In-cab coolbox (fridge) | + |
| | | Electrical hydraulic park brake actuation | • | Floor carpet | + |
| ELECTRICAL | | | | | |
| I 20 amp alternator | • | OPERATOR STATION | | FRONT PRIMARY DISPLAY | |
| Amber rotating beacon | • | Fully glazed cab | • | Warning lights | |
| Twin amber beacons | + | Air conditioning | • | Direction indicators | • |
| Electrical adjustable mirrors | • | Climate control | + | Master warning | • |
| Heated mirrors | • | Single lever joystick | • | High coolant temperature | • |
| External battery isolator | • | Multi-lever hydraulic controls | + | Battery charging condition | • |
| Fold down beacon arm | • | Proportional electro hydraulic auxiliary control | • | Low fuel level | • |
| Halogen front and rear working lights | • | Deluxe heated air suspension cloth seat | • | Engine oil pressure | • |
| Hazard warning lights | • | Super deluxe heated and cooled air suspension half leather seat | + | Hazard lamps | • |
| Integrated rear view camera | • | Front roller blind | • | Park brake state | • |
| LED front and rear working lights | + | Rear roller blind | • | Road lights | • |
| LED 360° working lights | + | Cab air intake filter | • | Main beam lights | • |
| Number plate light kit | + | Carbon cab air intake filter | + | Rear fog lights | • |
| Parking lights | • | 2 x 12V in-cab power socket | • | Engine pre-heat | • |
| Radio wiring and speakers | • | 24V in-cab power socket | + | Brake system pressure | • |
| Rear fog light | • | Reversing camera (colour) | • | Differential lock | • |
| Reverse alarm and light | • | Fold away adjustable steering column | • | Low steering pressure | • |
| Reversing object detection system | + | ROPS/FOPS safety structure | • | Buzzer alerts | |
| Road lights front and rear | • | Interior light | • | Engine air filter blocked | • |
| Smart reverse alarm and light | + | Front primary display screen | • | Diesel exhaust fluid (DEF) | • |
| Turn signals | • | Secondary A post display screen, rotary control menu interface | • | Torque reduction in case of malfunction | • |
| White noise reverse alarm and light | + | A post mounted membrane switches | • | Amber warning lamp | • |
| Work lights on rear counterweight | • | Variable fan speed control on climatic control system | + | Stop engine | • |

| EQUIPMENT (CONTINUED) | |
|---|---|
| FRONT PRIMARY DISPLAY | |
| Gauge display | |
| Engine speed | • |
| Coolant temperature | • |
| Fuel level | • |
| LCD screen display | |
| Current gear | • |
| Stop engine | • |
| Torque reduction in case of malfunction | • |
| Amber warning lamp | • |
| Diesel exhaust fluid (DEF) | • |
| Engine air filter blocked | • |
| Secondary steer system pressure | • |
| Torque lockup | • |
| Steer mode | • |
| Ground speed | • |
| Engine speed (numeric display) | • |
| Clock | • |
| Hydraulic state | • |
| Smoothride system (SRS) | + |
| Beacon | • |
| Front work lamps | • |
| Rear work lamps | • |
| Heated rear screen | • |
| Transmission sump temperature | • |
| Data screens | |
| DEF level | • |
| Hydraulic oil temperature | • |
| Torque convertor temperature | • |
| Volume of fuel remaining | • |
| Total fuel used (resettable) | • |
| Instantaneous fuel use | • |
| Average fuel use (resettable) | • |
| Current date | • |
| Machine hours | • |
| Trip distance (resettable) | • |
| Hours to service | • |
| Daily checks | |
| Engine oil level | • |
| DEF level | • |
| | |

| RIGHT HAND SECONDARY DISPLAY | |
|--|---|
| Clock | • |
| Climate control | • |
| Fan speed | • |
| In-cab temperature set | • |
| Machine hours | • |
| Rear view camera | • |
| Fuel use | • |
| Time and date | • |
| Auxiliary flow rate | • |
| Hydraulic oil temperature | • |
| Transmission oil temperature | • |
| Machine settings screen | |
| Coolant temperature | • |
| Engine oil pressure | • |
| Air filter | • |
| Transmission sump temperature | • |
| Transmission torque convertor temperature | • |
| Hydraulic oil temperature | • |
| Park brake pressure | • |
| Battery voltage | • |
| Help display | • |
| On-screen handbook | • |
| | |
| HYDRAULIC SYSTEM | |
| Smoothride system (SRS) | + |
| Hydraulic quickhitch with in-cab isolation | + |
| Auxiliary ARV kit | + |
| Auxiliary hydraulic service | • |
| Twin auxiliary hydraulic service | + |
| Single piston pump with priority steer | • |
| Emergency steer back-up | • |
| JCB biodegradable hydraulic oil | + |
| Electronic hydraulic isolation | • |
| Automatic boom kick-out. Detent | • |
| Automatic bucket positioner | • |
| Front loader float | • |
| Indicator glass for hydraulic oil level | • |
| Hydraulic oil cooler | • |
| | |

| EXTERNAL EQUIPMENT | |
|---|---|
| Front and rear fenders | • |
| Front removable mud flaps | • |
| Front wheel spray guards | • |
| Full tyre width coverage fenders | • |
| Automatic greasing system | + |
| Grease gun and cartridge | + |
| One piece manual opening bonnet | • |
| Mesh air intake screens | • |
| Flexible bottom step | • |
| Full width rear counterweight | • |
| Recovery hitch | • |
| 10,000kg hydraulic tow hitch with trailer brakes (12V or 24V electrics) | + |
| 10,000kg Rockinger tow hitch with trailer brakes (12V or 24V electrics) | + |
| Lifting / tie down lugs | • |
| Rear counterweight chevrons | + |
| Stainless steel exhaust stack | + |
| | |
| PROTECTIVE EQUIPMENT | |
| Rear grille guard | + |
| Safety strut loader arm | + |
| Light guards | + |
| Rear belly guard kit | + |
| Articulation joint safety strut | • |
| | |
| OTHER EQUIPMENT | |

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