



## WHEEL LOADER | 427/437

427 – Gross engine power: 179 hp (133 kW)    Operating weight: 28880 - 36376 lbs (13.1-16.5 t)  
Full turn tipping load: 18966 lbs (8603 kg)    Standard bucket capacity 3.1 yd<sup>3</sup> (2.3 m<sup>3</sup>)

437 – Gross engine power: 183 hp (136 kW)    Operating weight: 33272 - 39242 lbs (15.1-17.8 t)  
Full turn tipping load: 21215 lbs (9623 kg)    Standard bucket capacity 3.5 yd<sup>3</sup> (2.7 m<sup>3</sup>)



## A QUALITY PROCESS.

WE KNOW THAT A WHEEL LOADER IS A KEY PART OF THE ON-SITE PROCESS. THAT'S WHY THE JCB 427 AND 437 ARE BUILT ON A FOUNDATION OF QUALITY AND RELIABILITY. THE PROCESSES WE'VE USED THROUGH DESIGN AND MANUFACTURE 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 the standard starting performance at -4°F (20°C).

**2** The new front chassis is more durable than ever; it's been strengthened with additional ribs and gussets for maximum service life.

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

**3** The JCB 427 and 437 can be specified for heavy-duty applications like waste or corrosive material handling.



We use state-of-the-art manufacturing processes like robot machining, precision paint technology and innovative assembly techniques to achieve the highest levels of quality.



## Protecting ancillaries.

**4** A solid cast rear counterweight protects the rear of the machine – including the rear lights and cooling pack – from damage. You can choose for additional guards on the front screen, lights, underbelly and rear grill. For additional protection, there are impact-resistant fender edges and trims fitted.

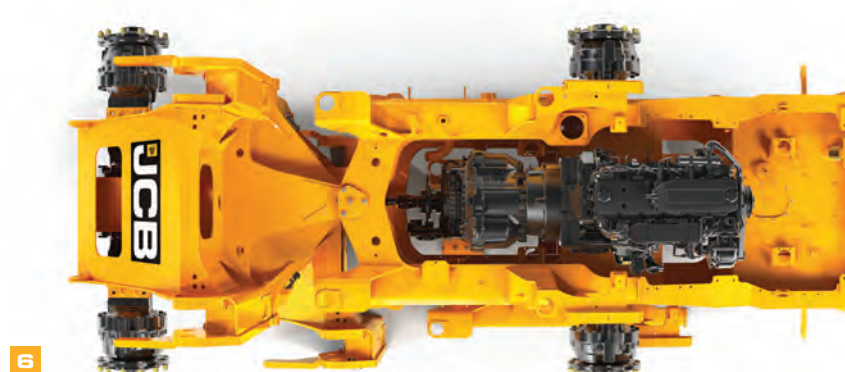
## Well articulated.

**5** Hoses are neatly routed and clamped through the articulation joint, well away from any pinch points.

**6** Designed to tolerate both vertical and horizontal loadings, the articulation joint has a heavy-duty center pin and oversized bushing, as well as twin taper roller bearings on the top box joints.

These machines have integral steel fluid tanks for the ultimate in leak protection; a far superior solution to the plastic tanks favored by some competitors.

The articulation joint on the JCB 427 and 437 has a heavy-duty box section that's much stronger than a single plate with a boss. Steering rams are positioned high up and well protected from possible impact and site damage.



# PRODUCTIVE PERFORMANCE.

THE 427 AND 437 CAN PERFORM GREAT FEATS OF PRODUCTIVITY. WITH HIGH POWER AND TORQUE, BOTH MACHINES MEET TIER 4 FINAL/STAGE IV EMISSIONS LEGISLATION WITHOUT NEEDING A DPF WHICH ELIMINATES THE NEED FOR PERIODIC REGENERATION.

## Drivetrain performance.

**1** The Cummins QSB 408in<sup>3</sup> (6.7 liter) engine achieves maximum engine power (179hp/133kW in the 427, 183hp/136kW in the 437) and peak torque (620lbs-ft/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.

**2** JCB's optional quickhitch makes attachment changing quick and efficient. The quickhitch is designed to be compatible with aftermarket attachments too.

**3** Powerful twin variable displacement piston pump hydraulics can circulate a massive 66.5gal/min (252l/min) for fast cycles and excellent multi-function capability.

## COMMANDPLUS controls.

A choice of 3 or 4-spool hydraulics gives you the scope for invaluable extra versatility. Flow can be adjusted from the cab via the all-new Command Plus controls.

There's no need to worry about wasting time and money replacing a diesel particulate filter (DPF) on your loader; its Cummins engine meets Tier 4 Final/Stage IV legislation using only exhaust gas recirculation (EGR), selective catalytic reduction (SCR) and diesel oxidation catalyst (DOC). This setup also improves fuel economy.





Z bar (ZX)

HT Standard Lift

HT High Lift

HT Super High Lift

4

### Loading productivity (continued).

4 You can choose your ideal loader arm on a 427 and 437, with Z-bar linkage (ZX) for high breakout applications or high torque (HT) for parallel lift and multi-attachment use.

Choose a HT high lift on the 427 or 437, or HT super high lift on the 437 and you can use the machine for higher loading height applications.

- Standard differentials are ideal for hard standing ground conditions.
- Limited slip differentials is perfect for soft, muddy terrain with reduced traction.
- Standard rear differential with an automatic locking front axle differential provide excellent traction in varied ground conditions.

### Drivetrain productivity.

5 The 427 and 437's optional 5-speed transmission with torque convertor lock-up provides closer ratios for better acceleration, hill climbing and travel performance. The lock-up element eliminates losses from the torque converter for faster cycle times and improved efficiency.

6 With a range of axle options, you can tailor performance to any application.

6



5



The innovative electronic management performs 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.

## EFFICIENT BY DESIGN.

THE JCB 427 AND 437 ARE 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 AND DURABILITY.

### An efficient engine.

**1** A hydraulic cooling fan automatically reacts to ambient temperature and adjusts the fan speed to optimize energy and reduce fuel consumption. An additional benefit of this setup is reduced noise levels.

**2** Eco Mode caps engine speed at 1800rpm for reduced fuel consumption. Productivity nonetheless remains formidable.

**3** Our torque lock-up 5 speed transmission gives you up to 100% efficiency in gears 2 to 5 for improved fuel consumption. Closer gear ratios provide lower engine speed in each gear.



Automatic idle returns the engine to 700rpm after 30 seconds of inactivity.

## An efficient engine (continued).

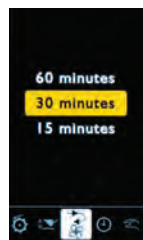
- 4** Wheel speed braking means the brakes rotate at the same speed as the wheels for heat and drag reduction, as well as improved fuel economy and access for maintenance and repairs.
- 5** Unloaded spool valves in the valve block mean that arms lower under gravitational, not hydraulic force, reducing fuel consumption.
- 6** JCB's innovative variable displacement pumps feed a load-sensing valve block which only consumes power on demand, providing precise, efficient loader control.
- 7** No DPF means potentially periodic dangerous temperatures involved in regeneration and downtime caused through DPF maintenance or failures are eliminated. The fuel that would have been needed to restore your DPF can be used instead for production work.



Adjustable SRS engagement speed.



Adjustable Auxiliary control.



Adjustable reversing fan intervals.



# COMMANDPLUS.

THE LATEST JCB 427 AND 437 WHEEL LOADERS BOAST OUR ALL-NEW COMMAND PLUS CAB. THIS UNIQUE APPROACH TO ERGONOMICS IS THE RESULT OF A RADICAL RETHINK AND AN EXTENSIVE RESEARCH PROGRAM. 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.

**2** Using your machine's simple, dedicated menu interface is easily done with an intuitive optional rotary controller.

**3** Operating your 427 or 437 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 multi-lever configurations, all using electro-hydraulics for the ultimate in precision.

**4** There are two full color LCD screens to navigate the operating menus, one of which doubles as a monitor for the optional rear-view camera and CommandPlus control menu.



The noise level in the cab is an incredibly low 68dB(a): so quiet you can hardly hear the engine running.

**5** To keep the operator environment comfortable for working at all times, we've positively pressurized the cab to eliminate dust and fumes.

**6** After extensive research into operator ergonomics, we've devised the Command Driving Position, which boasts the optimal control layout for a multitude of different driver shapes and sizes, ranging from an air suspension standard seat to a super deluxe half leather seat, featuring fully adjustable heating and cooling functionality, electrically adjustable lumbar support and adjustable dampers.

**7** 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 427 or 437 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 parking brake 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.



## LOW MAINTENANCE LONG INTERVALS.

WHEEL LOADERS NEED TO SPEND THE MAXIMUM AMOUNT OF TIME HARD AT WORK. WE'VE DESIGNED THE 427 AND 437 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 427 and 437 with a large automatic opening single-piece engine hood.
- 2 Accessing the diesel and DEF (Diesel Exhaust Fluid) tanks is similarly straightforward via the lockable grill at the rear of the machine.

You can check washer fluid level, 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.

- 3 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 provides quick, easy and safe cleaning.
- 5 With the optional auto lubrication kit, your machine will take care of its own greasing requirements.



## Less servicing, more uptime.

**5** 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.

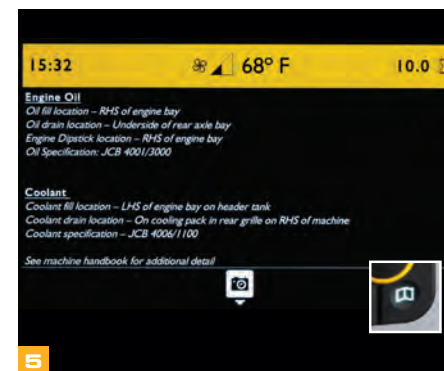
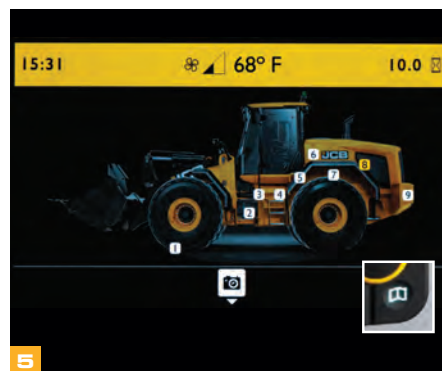
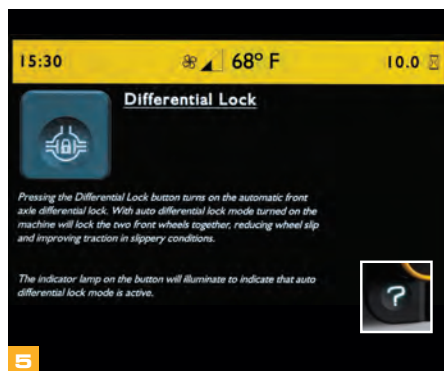
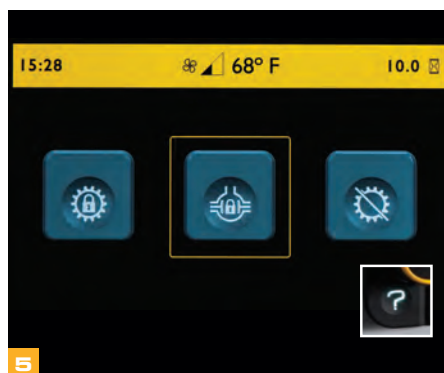
**6** By using premium components in the 427 and 437 (Cummins engine, ZF transmissions and axles, Rexroth pumps and Parker valve blocks), we've built in long service life as standard.

**7** 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 76.6 US Gallon (290 Liter) 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.



## DRIVE SAFELY.

THE NEW JCB 427 AND 437 ARE DESIGNED TO KEEP THE OPERATOR AND YOUR WORKSITE SAFE AT ALL TIMES. GREAT VISIBILITY, NON-SLIP SURFACES AND FULL ROPS/FOPS PROTECTION ARE JUST THE START.

### Safely does it.

- 1 Our optional rear-view camera displays an unobstructed rear view on the in-cab color monitor onboard your 427 and 437.
- 2 Superb visibility in dark conditions is guaranteed with JCB's optional LED lighting.
- 3 You'll find the rear-view mirrors mounted in front of the A-pillars for improved all-around visibility.
- 4 Visibility over the rear engine hood is excellent because the air cleaner is underneath the engine hood and the exhaust stack is located centrally.



## Safely does it (continued).

**5** Access steps on the 427 and 437 are inclined and equally spaced, complemented by well positioned grab handles for three points of contact at all times.

**6** Full fender coverage flaps have been carefully designed to keep forward spray to a minimum for all tire options. This increases safety and decreases debris build-up.

**7** Door hinges are now mounted on the A-pillar; this simple change has created much better access via a larger and wider door opening. It also means you can access the rear of your loader more safely.

The battery and tool box are lockable for added security.

**8** The cab is isolator-mounted, compliant with ROPS/FOPS standards, and positively pressurized against dust. You can choose from fresh air or carbon filters as well.

**9** Engines fitted with a DPF can pose an increased fire risk because extreme heat can be created in regeneration mode. The new 427 and 437 don't use DPFs, so this is no cause for concern.

Non-slip walkways and additional grab handle options allow for safe movement around the machine.

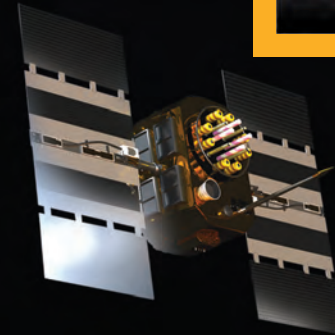


## LIVELINK, WORK SMARTER.

**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 CENTER.**

### 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 unauthorized 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 access all the machine options available to you. This includes rental options and new or used machine sales.

## Rebuild and refurbishment program

If your business isn't in a position to buy a brand new machine, then JCB's rebuild and refurbishment program 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 Centers, meanwhile, deliver around 95% of all parts anywhere in the world within 24 hours.

## Component monitoring

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

## Service support

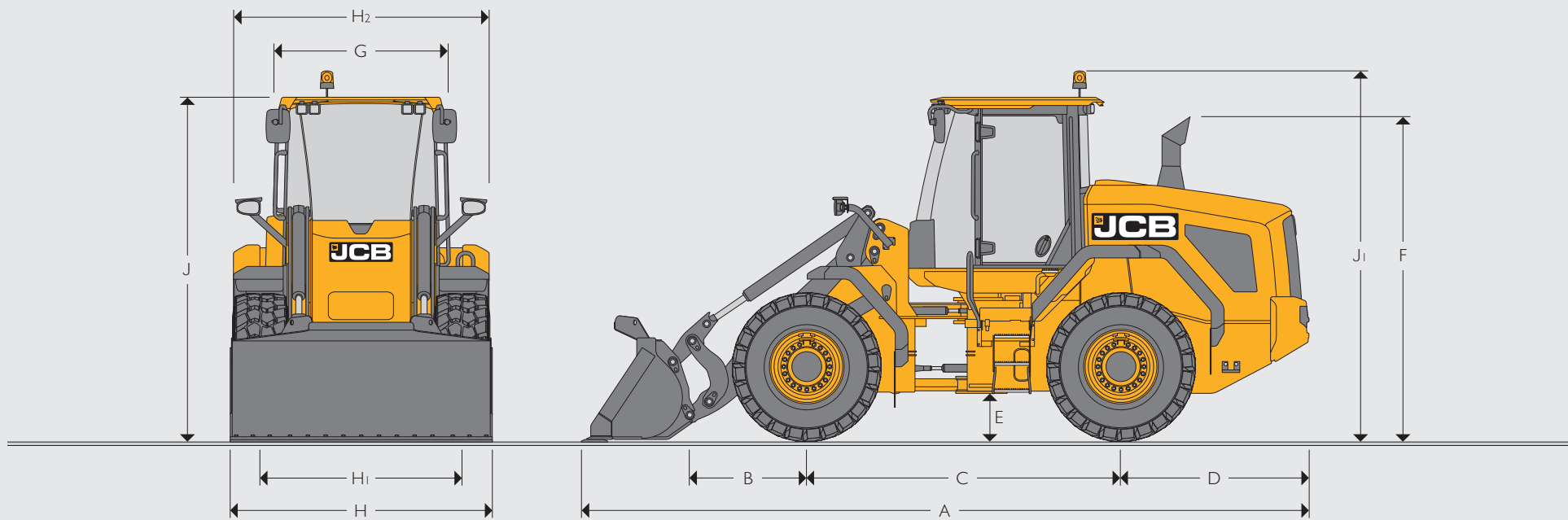
We offer a range of extended warranties, from JCB PremierCover (full comprehensive coverage) to JCB PowertrainCover (engine, axles, transmission and hydraulic pump coverage). Service agreements, as well as service-only or Repair and Maintenance contracts ensure that we have the up-time of your wheel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

## Finance

Finance specialists are always on-hand to provide fast, flexible, competitive quotes. Packages can be tailored to suit your specific business needs.



## STATIC DIMENSIONS

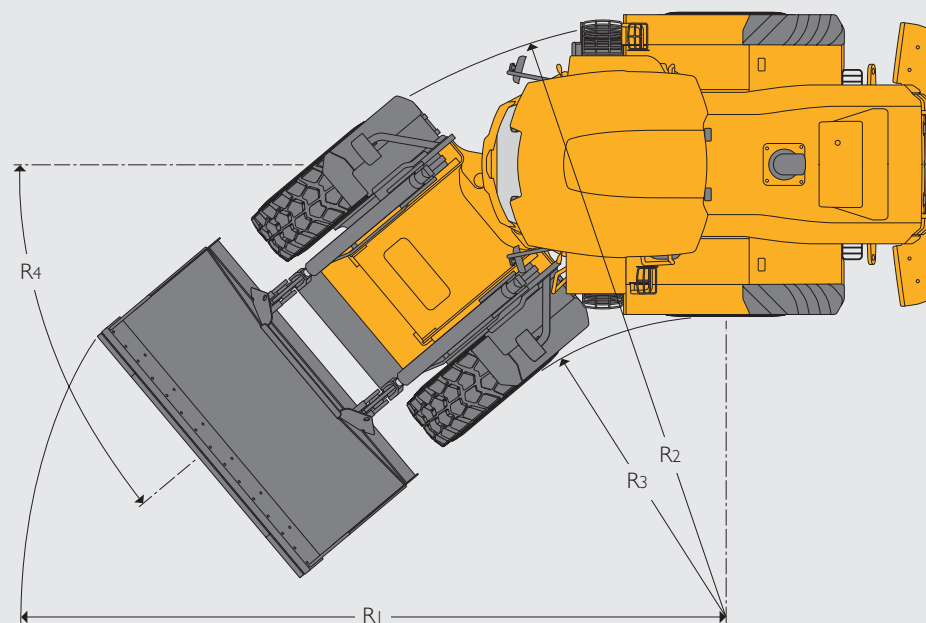


|    |                                                                    |            | 427 HT        | 427 HT HL     | 427ZX         | 437 HT        | 437 HT HL     | 437 HT SHL    | 437 ZX        |
|----|--------------------------------------------------------------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| A  | Overall length                                                     | ft-in (mm) | 23-2 (7070)   | 24-9 (7532)   | 23-2 (7069)   | 23-11 (7301)  | 26-0 (7928)   | 27-10 (8485)  | 24-0 (7306)   |
| B  | Axle to pivot pin                                                  | ft-in (mm) | 3-9 (1134)    | 5-3 (1596)    | 3-8 (1108)    | 4-1 (1246)    | 6-2 (1873)    | 8-0 (2430)    | 4-1 (1251)    |
| C  | Wheel base                                                         | ft-in (mm) | 10-0 (3050 )  | 10-0 (3050)   | 10-0 (3050)   | 10-0 (3050)   | 10-0 (3050)   | 10-0 (3050)   | 10-0 (3050)   |
| D  | Axle to counterweight face                                         | ft-in (mm) | 6-0 (1833)    | 6-0 (1833)    | 6-0 (1833)    | 6-0 (1833)    | 6-0 (1833)    | 6-0 (1833)    | 6-0 (1833)    |
| E  | Minimum ground clearance                                           | ft-in (mm) | 1-7 (472)     | 1-7 (472)     | 1-7 (472)     | 1-7 (472)     | 1-7 (472)     | 1-7 (472)     | 1-7 (472)     |
| F  | Height over exhaust                                                | ft-in (mm) | 10-3 (3133)   | 10-3 (3133)   | 10-3 (3133)   | 10-3 (3133)   | 10-3 (3133)   | 10-3 (3133)   | 10-3 (3133)   |
| G  | Width over cab roof                                                | ft-in (mm) | 5-3 (1594)    | 5-3 (1594)    | 5-3 (1594)    | 5-3 (1594)    | 5-3 (1594)    | 5-3 (1594)    | 5-3 (1594)    |
| H  | Maximum width over tires                                           | ft-in (mm) | 8-2 (2483)    | 8-2 (2483)    | 8-2 (2483)    | 8-6 (2598)    | 8-6 (2598)    | 8-6 (2598)    | 8-6 (2598)    |
| H1 | Wheel track                                                        | ft-in (mm) | 6-5 (1955)    | 6-5 (1955)    | 6-5 (1953)    | 6-9 (2054)    | 6-9 (2054)    | 6-9 (2054)    | 6-9 (2054)    |
| H2 | Maximum width over fenders                                         | ft-in (mm) | 8-2 (2484)    | 8-2 (2484)    | 8-2 (2477)    | 8-5 (2560)    | 8-5 (2560)    | 8-5 (2560)    | 8-5 (2556)    |
| J  | Height over cab roof and lowered beacon                            | ft-in (mm) | 11-0 (3360)   | 11-0 (3360)   | 11-0 (3360)   | 11-0 (3360)   | 11-0 (3360)   | 11-0 (3360)   | 11-0 (3360)   |
| J1 | Height over raised beacon                                          | ft-in (mm) | 12-3 (3720)   | 12-2 (3720)   | 12-2 (3720)   | 12-2 (3720)   | 12-2 (3720)   | 12-2 (3720)   | 12-2 (3720)   |
|    | Front axle weight                                                  | lb (kg)    | 12685 (5754)  | 13184 (5980)  | 13847 (6281)  | 13975 (6339)  | 15047 (6825)  | 17946 (8140)  | 16021 (7267)  |
|    | Rear axle weight                                                   | lb (kg)    | 16815 (7627)  | 16779 (7611)  | 16255 (7373)  | 19297 (8753)  | 19149 (8686)  | 17242 (7821)  | 18065 (8194)  |
|    | Total weight                                                       | lb (kg)    | 29500 (13381) | 29963 (13591) | 30102 (13654) | 33272 (15092) | 34196 (15511) | 35188 (15961) | 34086 (15461) |
|    | Height over engine cover from ground fully open                    | ft-in (mm) | 11-0 (3611)   | 11-0 (3611)   | 11-0 (3611)   | 11-0 (3611)   | 11-0 (3611)   | 11-0 (3611)   | 11-0 (3611)   |
|    | Increase in vehicle length with engine hood open (rear grill shut) | ft-in (mm) | +3-1 (+928)   | +3-1 (+928)   | +3-1 (+928)   | +3-1 (+928)   | +3-1 (+928)   | +3-1 (+928)   | +3-1 (+928)   |

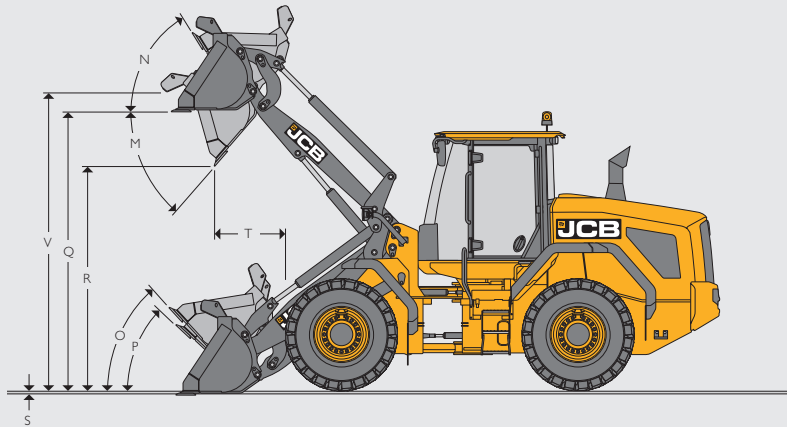
427 based on a machine equipped with Michelin 20.5R25 XHA2 (L3) radial tires & direct mount 2.5 yd<sup>3</sup> (1.9m<sup>3</sup>) bucket and toe plates.

437 based on a machine equipped with Michelin 20.5R25 XHA2 (L3) radial tires & direct mount 3.0 yd<sup>3</sup> (2.3m<sup>3</sup>) bucket and toe plates.

## STATIC DIMENSIONS



|    |                                 |            | 427HT       | 427 HT HL    | 427ZX       | 437 HT      | 437 HT HL   | 437 HT SHL  | 437 ZX       |
|----|---------------------------------|------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|
| R1 | Maximum turn radius over bucket | ft-in (mm) | 19-4 (5902) | 19-10 (6035) | 19-6 (5933) | 19-9 (6021) | 20-7 (6286) | 21-9 (6626) | 19-10 (6041) |
| R2 | Maximum turn radius over tire   | ft-in (mm) | 18-0 (5483) | 18-0 (5483)  | 18-0 (5483) | 18-0 (5483) | 18-0 (5483) | 18-0 (5483) | 18-0 (5483)  |
| R3 | Inside turn radius              | ft-in (mm) | 9-6 (2896)  | 9-6 (2896)   | 9-6 (2896)  | 9-6 (2896)  | 9-6 (2896)  | 9-6 (2896)  | 9-6 (2896)   |
| R4 | Articulation angle              | degrees    | 40          | 40           | 40          | 40          | 40          | 40          | 40           |



## TIRE SIZE 427 HT

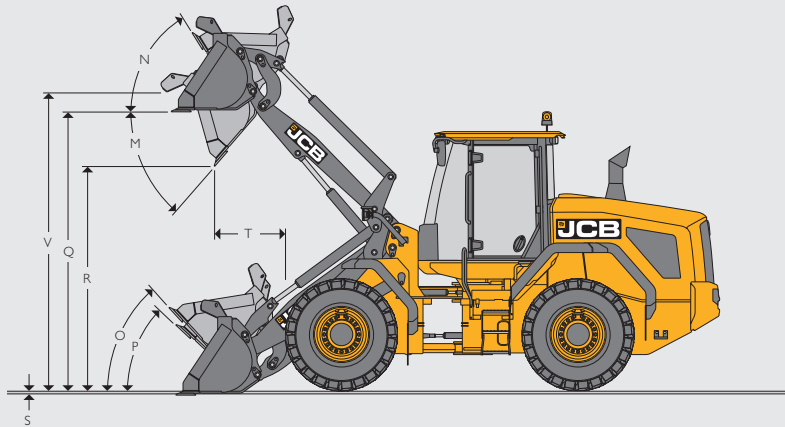
| Tire size | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | HT              |                  | Dimensions          |                  |
|-----------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|           |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25   | Michelin      | XHA2               | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0.0 (0)             | 0.0 (0)          |
| 20.5R25   | Michelin      | XTLA               | L2     | -247 (-112)                  | -174 (-79)      | -150 (-68)       | -0.3 (-7)           | 0.2 (4)          |
| 20.5R25   | Michelin      | XLDD2A             | L5     | 1155 (524)                   | 814 (369)       | 703 (319)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25   | Michelin      | XMINED2            | L5     | 1561 (708)                   | 1098 (498)      | 950 (431)        | 2.3 (58)            | 1.3 (34)         |
| 550/65R25 | Michelin      | XLDD2A             | L3     | -168 (-76)                   | -119 (-54)      | -101 (-46)       | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25   | Michelin      | XSNOPPLUS          | L2     | -168 (-76)                   | -119 (-54)      | -101 (-46)       | -0.4 (-11)          | 0.2 (6)          |
| 620/75R26 | Michelin      | MEGAXBIB           | N/A    | -696 (-315.6)                | -489 (-222)     | -423 (-192)      | 2.7 (68)            | 4.3 (108)        |
| 650/65R25 | Michelin      | XLD                | L3     | 1215 (551.2)                 | 855 (388)       | 739 (335)        | -0.4 (-10)          | 9.8 (249)        |
| 750/65R26 | Michelin      | MEGAXBIB           | N/A    | -146 (-66.4)                 | -104 (-47)      | -88 (-40)        | 3.2 (81)            | 18.7 (474)       |
| 20.5-25   | Goodyear      | SGL (16 ply)       | L2     | -520 (-236)                  | -366 (-166)     | -317 (-144)      | -0.2 (-5)           | 0.2 (4)          |
| 20.5-25   | Goodyear      | HLR (16 ply)       | L3     | -53 (-24)                    | -37 (-17)       | -33 (-15)        | 1.5 (37)            | 0.2 (4)          |
| 20.5R25   | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 454 (206)       | 392 (178)        | 0.4 (11)            | 0.2 (4)          |
| 20.5R25   | Goodyear      | RL-5K              | L5     | 1199 (544)                   | 844 (383)       | 730 (331)        | 1.9 (49)            | 0.2 (4)          |
| 20.5R25   | JCB           | Earthmover         | L3     | 203 (92)                     | 143 (65)        | 123 (56)         | 1.6 (41)            | 0.5 (12)         |
| 20.5R25   | SG Revolution | SE                 | Solid  | 4504 (2043.2)                | 3172 (1439)     | 2740 (1243)      | 0.7 (17)            | 3.7 (95)         |
| 20.5R25   | SG Revolution | S2 C2 DWL          | Solid  | 4778 (2167.2)                | 3364 (1526)     | 2908 (1319)      | 0.2 (6)             | 3.7 (95)         |
| 20.5-25   | JCB           | Sitemaster (16ply) | L3     | -344 (-156)                  | -243 (-110)     | -209 (-95)       | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25   | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -311 (-141)     | -269 (-122)      | 0.2 (4)             | -0.3 (-7)        |

Heavy-duty axles (required with 5 speed and 750 width agricultural tires and high lift arms).

## LOADER DIMENSIONS 427 HT

|   | Bucket mounting                                                                | Bucket type | Bucket equipment |                                         | Direct          |               |                     |               |               |               | Quickhitch      |               |                     |               |
|---|--------------------------------------------------------------------------------|-------------|------------------|-----------------------------------------|-----------------|---------------|---------------------|---------------|---------------|---------------|-----------------|---------------|---------------------|---------------|
|   |                                                                                |             |                  |                                         | General purpose |               |                     |               |               |               | General purpose |               |                     |               |
|   |                                                                                |             |                  |                                         | Tipped teeth    |               | Reversible toeplate |               |               |               | Tipped teeth    |               | Reversible toeplate |               |
|   |                                                                                |             |                  | yd <sup>3</sup> (m <sup>3</sup> )       | 2.35 (1.8)      | 2.62 (2)      | 2.49 (1.9)          | 2.75 (2.1)    | 3.14 (2.4)    | 3.53 (2.7)    | 2.35 (1.8)      | 2.62 (2)      | 2.49 (1.9)          | 2.75 (2.1)    |
|   |                                                                                |             |                  | yd <sup>3</sup> (m <sup>3</sup> )       | 2.04 (1.556)    | 2.31 (1.765)  | 2.11 (1.616)        | 2.39 (1.83)   | 2.69 (2.057)  | 3.07 (2.346)  | 2.03 (1.554)    | 2.29 (1.749)  | 2.08 (1.594)        | 2.34 (1.787)  |
|   |                                                                                |             |                  | ft-in (mm)                              | 8-4 (2550)      | 8-4 (2550)    | 8-4 (2550)          | 8-4 (2550)    | 8-10 (2700)   | 8-10 (2700)   | 8-4 (2550)      | 8-4 (2550)    | 8-4 (2550)          | 8-10 (2700)   |
|   |                                                                                |             |                  | lb (kg)                                 | 2538 (810)      | 2698 (850)    | 2564 (810)          | 2725 (850)    | 2478 (1136)   | 2643 (1211)   | 2504 (800)      | 2670 (850)    | 2538 (800)          | 2698 (850)    |
|   |                                                                                |             |                  | lb/yd <sup>3</sup> (kg/m <sup>3</sup> ) | 4438 (2633)     | 3954 (2346)   | 4204 (2494)         | 3766 (2234)   | 3204 (1901)   | 2810 (1667)   | 4109 (2438)     | 3661 (2172)   | 3894 (2310)         | 3487 (2069)   |
|   |                                                                                |             |                  | lb (kg)                                 | 24334 (11038)   | 24101 (10932) | 24334 (11038)       | 24101 (10932) | 23514 (10666) | 23215 (10530) | 22619 (10260)   | 22402 (10162) | 22619 (10260)       | 22402 (10162) |
|   |                                                                                |             |                  | lb (kg)                                 | 20896 (9478)    | 20684 (9382)  | 20896 (9478)        | 20684 (9382)  | 20115 (9124)  | 19841 (9000)  | 19352 (8778)    | 19154 (8688)  | 19352 (8778)        | 19154 (8688)  |
|   |                                                                                |             |                  | lb (kg)                                 | 10448 (4739)    | 10342 (4691)  | 10448 (4739)        | 10342 (4691)  | 10057 (4562)  | 9920 (4500)   | 9676 (4389)     | 9577 (4344)   | 9676 (4389)         | 9577 (4344)   |
|   |                                                                                |             |                  | lbf (kN)                                | 31024 (138)     | 28776 (128)   | 31024 (138)         | 28776 (128)   | 27651 (123)   | 25853 (115)   | 27202 (121)     | 25403 (113)   | 27202 (121)         | 25403 (113)   |
| M | Dump angle maximum                                                             | degrees     |                  |                                         | 49              | 49            | 49                  | 49            | 49            | 49            | 49              | 49            | 49                  | 49            |
| N | Roll back angle full height                                                    | degrees     |                  |                                         | 58              | 58            | 58                  | 58            | 58            | 58            | 58              | 58            | 58                  | 58            |
| O | Roll back at carry                                                             | degrees     |                  |                                         | 48              | 48            | 48                  | 48            | 48            | 48            | 48              | 48            | 48                  | 48            |
| P | Roll back at ground level                                                      | degrees     |                  |                                         | 43              | 43            | 43                  | 43            | 43            | 43            | 43              | 43            | 43                  | 43            |
| Q | Load over height                                                               | ft-in (mm)  |                  |                                         | 11-11 (3627)    | 11-11 (3627)  | 11-10 (3612)        | 11-10 (3612)  | 11-10 (3610)  | 11-10 (3610)  | 11-11 (3627)    | 11-11 (3627)  | 11-10 (3612)        | 11-10 (3612)  |
| R | Dump height (45 deg dump)                                                      | ft-in (mm)  |                  |                                         | 9-5 (2871)      | 9-1 (2767)    | 9-8 (2944)          | 9-6 (2896)    | 9-5 (2860)    | 9-2 (2796)    | 8-10 (2697)     | 8-8 (2647)    | 9-4 (2848)          | 9-1 (2775)    |
| S | Dig depth                                                                      | ft-in (mm)  |                  |                                         | 0-2 (50)        | 0-2 (50)      | 0-2 (47)            | 0-2 (47)      | 0-2 (47)      | 0-2 (47)      | 0-2 (50)        | 0-2 (50)      | 0-2 (47)            | 0-2 (47)      |
| T | Reach at dump height                                                           | ft-in (mm)  |                  |                                         | 3-4 (1022)      | 3-6 (1072)    | 2-11 (897)          | 3-2 (963)     | 3-3 (979)     | 3-5 (1043)    | 3-5 (1142)      | 3-11 (1191)   | 3-3 (1003)          | 3-6 (1069)    |
| V | Pin height                                                                     | ft-in (mm)  |                  |                                         | 12-9 (3876)     | 12-9 (3876)   | 12-9 (3876)         | 12-9 (3876)   | 12-9 (3876)   | 12-9 (3876)   | 12-9 (3876)     | 12-9 (3876)   | 12-9 (3876)         | 12-9 (3876)   |
|   | Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)  |                  |                                         | 5-10 (1769)     | 6-0 (1819)    | 5-5 (1644)          | 5-7 (1694)    | 5-8 (1726)    | 5-10 (1790)   | 6-2 (1889)      | 6-4 (1938)    | 5-9 (1751)          | 5-11 (1816)   |
|   | Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)     |                  |                                         | 29500 (13381)   | 29597 (13425) | 29500 (13381)       | 59597 (13425) | 30170 (13685) | 30309 (13748) | 30150 (13676)   | 30247 (13720) | 30150 (13676)       | 30247 (13720) |

\*Assumes machine is fitted with Michelin 20.5X1HA tires, 5 speed transmission and non parallel links.



## TIRE SIZE 427 HT HL

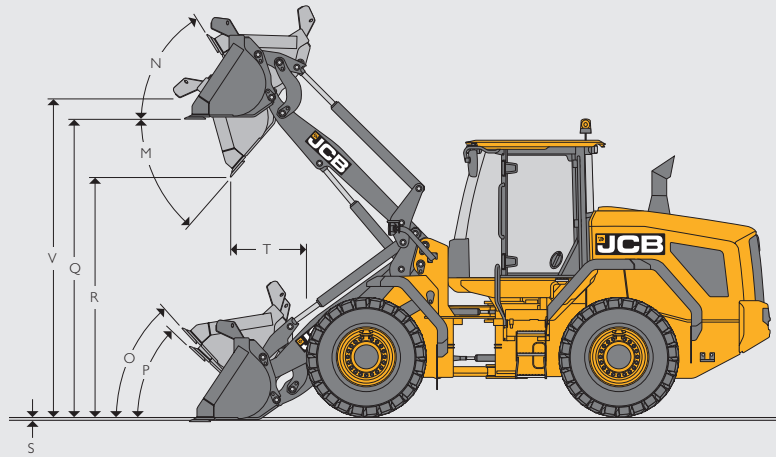
| Tire size | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | HT HL           |                  | Dimensions          |                  |
|-----------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|           |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25   | Michelin      | XHA2               | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0.0 (0)             | 0.0 (0)          |
| 20.5R25   | Michelin      | XTLA               | L2     | -247 (-112)                  | -148 (-67)      | -91 (-41)        | -0.3 (-7)           | 0.2 (4)          |
| 20.5R25   | Michelin      | XLDD2A             | L5     | 1155 (524)                   | 694 (315)       | 423 (192)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25   | Michelin      | XMINED2            | L5     | 1561 (708)                   | 939 (426)       | 571 (259)        | 2.3 (58)            | 1.3 (34)         |
| 550/65R25 | Michelin      | XLDD2A             | L3     | -168 (-76)                   | -101 (-46)      | -62 (-28)        | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25   | Michelin      | XSNOPPLUS          | L2     | -168 (-76)                   | -101 (-46)      | -62 (-28)        | -0.4 (-11)          | 0.2 (6)          |
| 620/75R26 | Michelin      | MEGAXBIB           | N/A    | -696 (-315.6)                | -419 (-190)     | -254 (-115)      | 2.7 (68)            | 4.3 (108)        |
| 650/65R25 | Michelin      | XLD                | L3     | 1215 (551.2)                 | 730 (331)       | 444 (202)        | -0.4 (-10)          | 9.8 (249)        |
| 750/65R26 | Michelin      | MEGAXBIB           | N/A    | -146 (-66.4)                 | -88 (-40)       | -54 (-24)        | 3.2 (81)            | 18.7 (474)       |
| 20.5-25   | Goodyear      | SGL (16 ply)       | L2     | -520 (-236)                  | -313 (-142)     | -190 (-86)       | -0.2 (-5)           | 0.2 (4)          |
| 20.5-25   | Goodyear      | HRL (16 ply)       | L3     | -53 (-24)                    | -31 (-14)       | -19 (-9)         | 1.5 (37)            | 0.2 (4)          |
| 20.5R25   | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 388 (176)       | 236 (107)        | 0.4 (11)            | 0.2 (4)          |
| 20.5R25   | Goodyear      | RL-5K              | L5     | 1199 (544)                   | 721 (327)       | 439 (199)        | 1.9 (49)            | 0.2 (4)          |
| 20.5R25   | JCB           | Earthmover         | L3     | 203 (92)                     | 121 (55)        | 75 (34)          | 1.6 (41)            | 0.5 (12)         |
| 20.5R25   | SG Revolution | SE                 | Solid  | 4504 (2043.2)                | 2709 (1229)     | 1649 (748)       | 0.7 (17)            | 3.7 (95)         |
| 20.5R25   | SG Revolution | S2 C2 DWL          | Solid  | 4778 (2167.2)                | 2873 (1303)     | 1748 (793)       | 0.2 (6)             | 3.7 (95)         |
| 20.5-25   | JCB           | Sitemaster (16ply) | L3     | -344 (-156)                  | -207 (-94)      | -126 (-57)       | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25   | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -265 (-120)     | -162 (-73)       | 0.2 (4)             | -0.3 (-7)        |

Heavy-duty axles (required with 5 speed and 750 width agricultural tires and high lift arms).

## LOADER DIMENSIONS 427 HT HL

|   |                                                                                | Direct          |               |                     |               |               |               | Quickhitch      |               |                     |               |               |               |               |
|---|--------------------------------------------------------------------------------|-----------------|---------------|---------------------|---------------|---------------|---------------|-----------------|---------------|---------------------|---------------|---------------|---------------|---------------|
|   |                                                                                | General purpose |               |                     |               |               |               | General purpose |               |                     |               |               |               |               |
|   |                                                                                | Tipped teeth    |               | Reversible toeplate |               |               |               | Tipped teeth    |               | Reversible toeplate |               |               |               |               |
|   | Bucket mounting                                                                |                 |               |                     |               |               |               |                 |               |                     |               |               |               |               |
|   | Bucket type                                                                    |                 |               |                     |               |               |               |                 |               |                     |               |               |               |               |
|   | Bucket equipment                                                               |                 |               |                     |               |               |               |                 |               |                     |               |               |               |               |
|   | Bucket capacity (SAE heaped 100%)                                              | yd³ (m³)        | 2.35 (1.8)    | 2.62 (2)            | 2.49 (1.9)    | 2.75 (2.1)    | 3.14 (2.4)    | 3.53 (2.7)      | 2.35 (1.8)    | 2.62 (2)            | 2.49 (1.9)    | 2.75 (2.1)    | 3.14 (2.4)    | 3.53 (2.7)    |
|   | Bucket capacity (struck)                                                       | yd³ (m³)        | 2.04 (1.556)  | 2.31 (1.765)        | 2.11 (1.616)  | 2.39 (1.83)   | 2.69 (2.057)  | 3.07 (2.346)    | 2.03 (1.554)  | 2.29 (1.749)        | 2.08 (1.594)  | 2.34 (1.787)  | 2.69 (2.057)  | 3.07 (2.346)  |
|   | Bucket width                                                                   | ft-in (mm)      | 8-4 (2550)    | 8-4 (2550)          | 8-4 (2550)    | 8-4 (2550)    | 8-10 (2700)   | 8-10 (2700)     | 8-4 (2550)    | 8-4 (2550)          | 8-4 (2550)    | 8-4 (2550)    | 8-10 (2700)   | 8-10 (2700)   |
|   | Bucket weight                                                                  | lb (kg)         | 2478 (810)    | 2643 (850)          | 2504 (810)    | 2670 (850)    | 2538 (1136)   | 2698 (1211)     | 2564 (800)    | 2725 (850)          | 2478 (800)    | 2643 (850)    | 2504 (1136)   | 2670 (1211)   |
|   | Maximum material density *                                                     | lb/yd³ (kg/m³)  | 3740 (2219)   | 3332 (1977)         | 3543 (2102)   | 3174 (1883)   | 2688 (1595)   | 2356 (1398)     | 3469 (2058)   | 3090 (1833)         | 3285 (1949)   | 2943 (1746)   | 2493 (1479)   | 2184 (1296)   |
|   | Tipping load straight *                                                        | lb (kg)         | 20538 (9316)  | 20343 (9228)        | 20538 (9316)  | 20343 (9228)  | 19778 (8971)  | 19524 (8856)    | 19130 (8677)  | 18954 (8598)        | 19130 (8677)  | 18954 (8598)  | 18427 (8358)  | 18182 (8247)  |
|   | Tipping load full turn *                                                       | lb (kg)         | 17610 (7988)  | 17431 (7907)        | 17610 (7988)  | 17431 (7907)  | 16881 (7657)  | 16645 (7550)    | 16330 (7407)  | 16168 (7334)        | 16330 (7407)  | 16168 (7334)  | 15656 (7102)  | 15429 (6999)  |
|   | Payload *                                                                      | lb (kg)         | 8805 (3994)   | 8716 (3953)         | 8805 (3994)   | 8716 (3953)   | 8440 (3828)   | 8323 (3775)     | 8165 (3704)   | 8084 (3667)         | 8165 (3704)   | 8084 (3667)   | 7828 (3551)   | 7715 (3499)   |
|   | Maximum breakout force                                                         | lbf (kN)        | 31024 (138)   | 28776 (128)         | 31024 (138)   | 28776 (128)   | 27651 (123)   | 25853 (115)     | 27202 (121)   | 25403 (113)         | 27202 (121)   | 25403 (113)   | 23830 (106)   | 22256 (99)    |
| M | Dump angle maximum                                                             | degrees         | 45            | 45                  | 45            | 45            | 45            | 45              | 45            | 45                  | 45            | 45            | 45            | 45            |
| N | Roll back angle full height                                                    | degrees         | 58            | 58                  | 58            | 58            | 58            | 58              | 58            | 58                  | 58            | 58            | 58            | 58            |
| O | Roll back at carry                                                             | degrees         | 50            | 50                  | 50            | 50            | 50            | 50              | 50            | 50                  | 50            | 50            | 50            | 50            |
| P | Roll back at ground level                                                      | degrees         | 48            | 48                  | 48            | 48            | 48            | 48              | 48            | 48                  | 48            | 48            | 48            | 48            |
| Q | Load over height                                                               | ft-in (mm)      | 13-4 (4057)   | 13-4 (4057)         | 13-3 (4042)   | 13-3 (4042)   | 13-3 (4040)   | 13-3 (4040)     | 13-4 (4057)   | 13-4 (4057)         | 13-3 (4042)   | 13-3 (4042)   | 13-3 (4040)   | 13-3 (4040)   |
| R | Dump height (45 deg dump)                                                      | ft-in (mm)      | 10-8 (3247)   | 10-6 (3197)         | 10-6 (3374)   | 10-11 (3326)  | 10-10 (3290)  | 10-7 (3226)     | 10-6 (3212)   | 10-3 (3127)         | 10-9 (3278)   | 10-6 (3205)   | 10-5 (3169)   | 10-2 (3106)   |
| S | Dig depth                                                                      | ft-in (mm)      | 0-4 (113)     | 0-4 (113)           | 0-4 (110)     | 0-4 (110)     | 0-4 (110)     | 0-4 (110)       | 0-5 (128)     | 0-4 (113)           | 0-4 (110)     | 0-4 (110)     | 0-4 (110)     | 0-4 (110)     |
| T | Reach at dump height                                                           | ft-in (mm)      | 3-11 (1184)   | 6-4 (1934)          | 3-6 (1059)    | 3-8 (1109)    | 3-9 (1141)    | 3-11 (1205)     | 3-11 (1195)   | 3-11 (1204)         | 3-10 (1165)   | 4-0 (1231)    | 4-2 (1262)    | 4-4 (1326)    |
| V | Pin height                                                                     | ft-in (mm)      | 14-2 (4306)   | 14-2 (4306)         | 14-2 (4306)   | 14-2 (4306)   | 14-2 (4306)   | 14-2 (4306)     | 14-2 (4306)   | 14-2 (4306)         | 14-2 (4306)   | 14-2 (4306)   | 14-2 (4306)   | 14-2 (4306)   |
|   | Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)      | 7-1 (2117)    | 7-1 (2167)          | 6-6 (1992)    | 6-8 (2042)    | 6-10 (2074)   | 7-0 (2138)      | 7-0 (2128)    | 7-4 (2237)          | 6-11 (2099)   | 7-1 (2164)    | 7-2 (2195)    | 7-5 (2259)    |
|   | Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)         | 30060 (13591) | 30060 (13635)       | 29963 (13591) | 30060 (13635) | 30633 (13895) | 30772 (13958)   | 30613 (13886) | 30710 (13930)       | 30613 (13886) | 30710 (13930) | 31233 (14167) | 31370 (14229) |

\*Assumes machine is fitted with Michelin 20.5XHA tires, 5 speed transmission and non parallel links.



## TIRE SIZE 437 HT

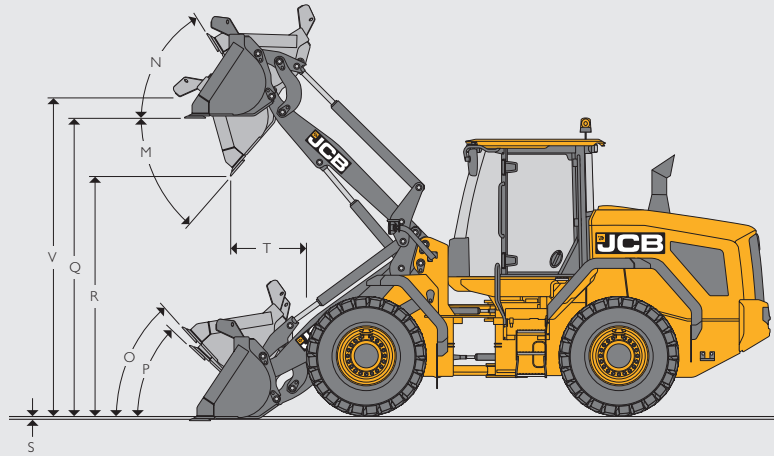
| Tire size | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | HT              |                  | Dimensions          |                  |
|-----------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|           |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25   | Michelin      | XHA                | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0 (0)               | 0 (0)            |
| 20.5R25   | Michelin      | XTLA               | L2     | -247 (-112)                  | -165 (-75)      | -143 (-65)       | -0.3 (-7)           | 0.2 (4)          |
| 550/65R25 | Michelin      | XLD                | L5     | -168 (-76)                   | -112 (-51)      | -97 (-44)        | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25   | Michelin      | XSNOPUS            | L5     | -168 (-76)                   | -112 (-51)      | -97 (-44)        | -0.4 (-11)          | 0.2 (6)          |
| 20.5R25   | Michelin      | XLDD2A             | L3     | 1155 (524)                   | 776 (352)       | 670 (304)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25   | Michelin      | XMINED2            | L2     | 1561 (708)                   | 1047 (475)      | 906 (411)        | 2.3 (58)            | 1.3 (34)         |
| 620/75R26 | Michelin      | MEGAXBIB           | N/A    | -703 (-318.8)                | -472 (-214)     | -408 (-185)      | 2.7 (68)            | -0.3 (-7)        |
| 650/65R25 | Michelin      | XLD                | L3     | 1208 (548)                   | 811 (368)       | 701 (318)        | -0.4 (-10)          | 5.3 (134)        |
| 750/65R26 | Michelin      | MEGAXBIB           | N/A    | -153 (-69.6)                 | -104 (-47)      | -88 (-40)        | 3.2 (81)            | 14.1 (359)       |
| 20.5-25   | Goodyear      | SGL (16 ply)       | L2     | -397 (-180)                  | -267 (-121)     | -229 (-104)      | -0.2 (-5)           | 1.0 (26)         |
| 20.5R25   | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 432 (196)       | 373 (169)        | 0.4 (11)            | 0.7 (17)         |
| 20.5R25   | Goodyear      | RL-5K              | L3     | 1358 (616)                   | 911 (413)       | 787 (357)        | 1.9 (49)            | 1.0 (26)         |
| 20.5-25   | Goodyear      | HRL (16 ply)       | L5     | -53 (-24)                    | -35 (-16)       | -31 (-14)        | 1.5 (37)            | 1.0 (26)         |
| 20.5R25   | JCB           | Earthmover         | L3     | 203 (92)                     | 137 (62)        | 117 (53)         | 1.6 (41)            | 0.5 (12)         |
| 20.5R25   | SG Revolution | SE                 | N/A    | 4497 (2040)                  | 3018 (1369)     | 2608 (1183)      | 0.7 (17)            | -0.8 (-20)       |
| 20.5R25   | SG Revolution | S2 C2 DWL          | N/A    | 4771 (2164)                  | 3201 (1452)     | 2767 (1255)      | 0.2 (6)             | -0.8 (-20)       |
| 20.5-25   | JCB           | Sitemaster (16ply) | L3     | 220 (100)                    | 148 (67)        | 128 (58)         | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25   | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -295 (-134)     | -256 (-116)      | 0.2 (4)             | -0.3 (-7)        |

Heavy-duty axles (required with 5 speed and 750 width agricultural tires and high lift arms).

## LOADER DIMENSIONS 437 HT

|                                                                                |                | Direct          |               |                     |               | Quickhitch      |               |                     |               |
|--------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------------|---------------|-----------------|---------------|---------------------|---------------|
|                                                                                |                | General purpose |               |                     |               | General purpose |               |                     |               |
|                                                                                |                | Tipped teeth    |               | Reversible toeplate |               | Tipped teeth    |               | Reversible toeplate |               |
| Bucket mounting                                                                |                |                 |               |                     |               |                 |               |                     |               |
| Bucket type                                                                    |                |                 |               |                     |               |                 |               |                     |               |
| Bucket equipment                                                               |                |                 |               |                     |               |                 |               |                     |               |
| Bucket capacity (SAE heaped 100%)                                              | yd³ (m³)       | 3.01 (2.3)      | 3.4 (2.6)     | 3.14 (2.4)          | 3.53 (2.7)    | 3.01 (2.3)      | 3.4 (2.6)     | 3.14 (2.4)          | 3.53 (2.7)    |
| Bucket capacity (struck)                                                       | yd³ (m³)       | 2.59 (1.984)    | 2.97 (2.27)   | 2.69 (2.057)        | 3.07 (2.346)  | 2.59 (1.984)    | 2.97 (2.27)   | 2.69 (2.057)        | 3.07 (2.346)  |
| Bucket width                                                                   | ft-in (mm)     | 9-0 (2740)      | 9-0 (2740)    | 8-10 (2700)         | 8-10 (2700)   | 9-0 (2740)      | 9-0 (2740)    | 8-10 (2700)         | 8-10 (2700)   |
| Bucket weight                                                                  | lb (kg)        | 2538 (1151)     | 2698 (1224)   | 2564 (1163)         | 2725 (1236)   | 2478 (1124)     | 2643 (1199)   | 2504 (1136)         | 2670 (1211)   |
| Maximum material density *                                                     | lb/yd³ (kg/m³) | 3610 (2142)     | 3154 (1871)   | 3460 (2053)         | 3036 (1801)   | 3359 (1993)     | 2933 (1740)   | 3219 (1910)         | 2825 (1676)   |
| Tipping load straight *                                                        | lb (kg)        | 25519 (11575)   | 25214 (11437) | 25519 (11575)       | 25214 (11437) | 23834 (10811)   | 23545 (10680) | 23834 (10811)       | 23545 (10680) |
| Tipping load full turn *                                                       | lb (kg)        | 21724 (9854)    | 21449 (9729)  | 21724 (9854)        | 21449 (9729)  | 20219 (9171)    | 19954 (9051)  | 20219 (9171)        | 19954 (9051)  |
| Payload *                                                                      | lb (kg)        | 10862 (4927)    | 10723 (4864)  | 10862 (4927)        | 10723 (4864)  | 10108 (4585)    | 9976 (4525)   | 10108 (4585)        | 9976 (4525)   |
| Maximum breakout force                                                         | lbf (kN)       | 33047 (147)     | 30124 (134)   | 33047 (147)         | 30124 (134)   | 29450 (131)     | 27427 (122)   | 29450 (131)         | 27427 (122)   |
| M Dump angle maximum                                                           | degrees        | 49              | 49            | 49                  | 49            | 49              | 49            | 49                  | 49            |
| N Roll back angle full height                                                  | degrees        | 58              | 58            | 58                  | 58            | 58              | 58            | 58                  | 58            |
| O Roll back at carry                                                           | degrees        | 48              | 48            | 48                  | 48            | 48              | 48            | 48                  | 48            |
| P Roll back at ground level                                                    | degrees        | 43              | 43            | 43                  | 43            | 43              | 43            | 43                  | 43            |
| Q Load over height                                                             | ft-in (mm)     | 12-4 (3760)     | 12-4 (3760)   | 12-4 (3755)         | 12-4 (3755)   | 12-4 (3760)     | 12-4 (3760)   | 12-4 (3755)         | 12-4 (3755)   |
| R Dump height (45 deg dump)                                                    | ft-in (mm)     | 9-2 (2794)      | 8-11 (2730)   | 9-9 (2962)          | 9-5 (2871)    | 8-11 (2709)     | 8-8 (2645)    | 9-4 (2850)          | 9-2 (2786)    |
| S Dig depth                                                                    | ft-in (mm)     | 0-5 (132)       | 0-5 (132)     | 0-4 (106)           | 0-4 (106)     | 0-5 (132)       | 0-5 (132)     | 0-4 (106)           | 0-4 (106)     |
| T Reach at dump height                                                         | ft-in (mm)     | 3-8 (1115)      | 3-10 (1174)   | 3-4 (1011)          | 3-6 (1070)    | 3-11 (1192)     | 4-1 (1250)    | 3-7 (1088)          | 3-9 (1146)    |
| V Pin height                                                                   | ft-in (mm)     | 13-2 (4021)     | 13-2 (4021)   | 13-2 (4021)         | 13-2 (4021)   | 13-2 (4021)     | 13-2 (4021)   | 13-2 (4021)         | 13-2 (4021)   |
| Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)     | 6-5 (1954)      | 6-7 (2018)    | 6-1 (1850)          | 6-3 (1914)    | 5-8 (1739)      | 6-11 (2103)   | 6-4 (1935)          | 6-7 (1999)    |
| Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)        | 33272 (15092)   | 33411 (15155) | 33272 (15092)       | 33411 (15155) | 33872 (15364)   | 34009 (15426) | 33872 (15364)       | 34009 (15426) |

\*Assumes machine is fitted with Michelin 20.5R25 XHA2 (L3) tires, 5 speed transmission and non parallel links.



## TIRE SIZE 437 HT HL

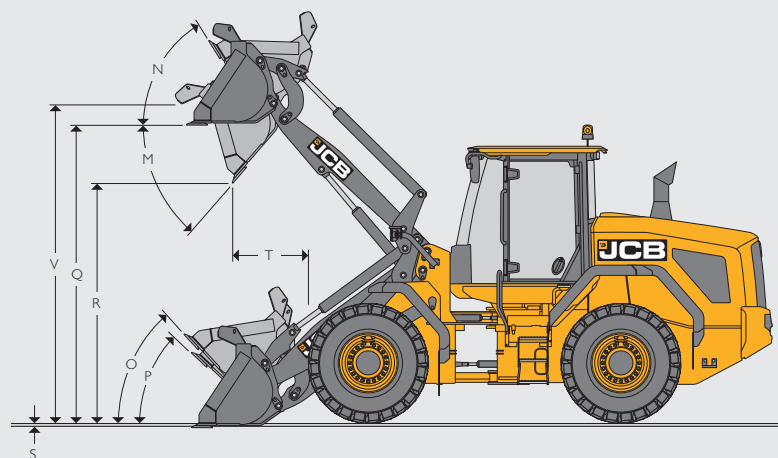
| Tire size | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | HT HL           |                  | Dimensions          |                  |
|-----------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|           |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25   | Michelin      | XHA                | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0 (0)               | 0 (0)            |
| 20.5R25   | Michelin      | XTLA               | L2     | -247 (-112)                  | -135 (-61)      | -78 (-35)        | -0.3 (-7)           | 0.2 (4)          |
| 550/65R25 | Michelin      | XLD                | L5     | -168 (-76)                   | -91 (-42)       | -53 (-24)        | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25   | Michelin      | XSNOPLUS           | L5     | -168 (-76)                   | -91 (-42)       | -53 (-24)        | -0.4 (-11)          | 0.2 (6)          |
| 20.5R25   | Michelin      | XLDD2A             | L3     | 1155 (524)                   | 631 (286)       | 366 (166)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25   | Michelin      | XMINED2            | L2     | 1561 (708)                   | 852 (387)       | 494 (224)        | 2.3 (58)            | 1.3 (34)         |
| 620/75R26 | Michelin      | MEGAXBIB           | N/A    | -703 (-318.8)                | -384 (-174)     | -223 (-101)      | 2.7 (68)            | -0.3 (-7)        |
| 650/65R25 | Michelin      | XLD                | L3     | 1208 (548)                   | 659 (299)       | 383 (174)        | -0.4 (-10)          | 5.3 (134)        |
| 750/65R26 | Michelin      | MEGAXBIB           | N/A    | -153 (-69.6)                 | -84 (-38)       | -49 (-22)        | 3.2 (81)            | 14.1 (359)       |
| 20.5-25   | Goodyear      | SGL (16 ply)       | L2     | -397 (-180)                  | -217 (-98)      | -126 (-57)       | -0.2 (-5)           | 1.0 (26)         |
| 20.5R25   | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 351 (159)       | 204 (93)         | 0.4 (11)            | 0.7 (17)         |
| 20.5R25   | Goodyear      | RL-5K              | L3     | 1358 (616)                   | 741 (336)       | 429 (195)        | 1.9 (49)            | 1.0 (26)         |
| 20.5-25   | Goodyear      | HRL (16 ply)       | L5     | -53 (-24)                    | -29 (-13)       | -17 (-8)         | 1.5 (37)            | 1.0 (26)         |
| 20.5R25   | JCB           | Earthmover         | L3     | 203 (92)                     | 111 (50)        | 64 (29)          | 1.6 (41)            | 0.5 (12)         |
| 20.5R25   | SG Revolution | SE                 | N/A    | 4497 (2040)                  | 2455 (1114)     | 1424 (646)       | 0.7 (17)            | -0.8 (-20)       |
| 20.5R25   | SG Revolution | S2 C2 DWL          | N/A    | 4771 (2164)                  | 2604 (1181)     | 1510 (685)       | 0.2 (6)             | -0.8 (-20)       |
| 20.5-25   | JCB           | Sitemaster (16ply) | L3     | 220 (100)                    | 120 (55)        | 70 (32)          | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25   | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -241 (-109)     | -139 (-63)       | 0.2 (4)             | -0.3 (-7)        |

Heavy-duty axles (required with 5 speed and 750 width agricultural tires and high lift arms).

## LOADER DIMENSIONS 437 HT HL

|                                                                                |                | Direct          |               |                     |               | Quickhitch      |               |                     |               |
|--------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------------|---------------|-----------------|---------------|---------------------|---------------|
|                                                                                |                | General purpose |               |                     |               | General purpose |               |                     |               |
|                                                                                |                | Tipped teeth    |               | Reversible toeplate |               | Tipped teeth    |               | Reversible toeplate |               |
| Bucket mounting                                                                |                |                 |               |                     |               |                 |               |                     |               |
| Bucket type                                                                    |                |                 |               |                     |               |                 |               |                     |               |
| Bucket equipment                                                               |                |                 |               |                     |               |                 |               |                     |               |
| Bucket capacity (SAE heaped 100%)                                              | yd³ (m³)       | 3.01 (2.3)      | 3.4 (2.6)     | 3.14 (2.4)          | 3.53 (2.7)    | 3.01 (2.3)      | 3.4 (2.6)     | 3.14 (2.4)          | 3.53 (2.7)    |
| Bucket capacity (struck)                                                       | yd³ (m³)       | 2.59 (1.984)    | 2.97 (2.27)   | 2.69 (2.057)        | 3.07 (2.346)  | 2.59 (1.984)    | 2.97 (2.27)   | 2.69 (2.057)        | 3.07 (2.346)  |
| Bucket width                                                                   | ft-in (mm)     | 9-0 (2740)      | 9-0 (2740)    | 8-10 (2700)         | 8-10 (2700)   | 9-0 (2740)      | 9-0 (2740)    | 8-10 (2700)         | 8-10 (2700)   |
| Bucket weight                                                                  | lb (kg)        | 2538 (1151)     | 2698 (1224)   | 2564 (1163)         | 2725 (1236)   | 2478 (1124)     | 2643 (1199)   | 2504 (1136)         | 2670 (1211)   |
| Maximum material density *                                                     | lb/yd³ (kg/m³) | 2901 (1721)     | 2533 (1503)   | 2781 (1650)         | 2441 (1448)   | 2709 (1607)     | 2365 (1403)   | 2596 (1540)         | 2277 (1351)   |
| Tipping load straight *                                                        | lb (kg)        | 20578 (9334)    | 20338 (9225)  | 20578 (9334)        | 20338 (9225)  | 19295 (8752)    | 19063 (8647)  | 19295 (8752)        | 19063 (8647)  |
| Tipping load full turn *                                                       | lb (kg)        | 17456 (7918)    | 17236 (7818)  | 17456 (7918)        | 17236 (7818)  | 16294 (7391)    | 16078 (7293)  | 16294 (7391)        | 16078 (7293)  |
| Payload *                                                                      | lb (kg)        | 8728 (3959)     | 8618 (3909)   | 8728 (3959)         | 8618 (3909)   | 8148 (3696)     | 8040 (3647)   | 8148 (3696)         | 8040 (3647)   |
| Maximum breakout force                                                         | lbf (kN)       | 33047 (147)     | 30124 (134)   | 33047 (147)         | 30124 (134)   | 29450 (131)     | 27427 (122)   | 29450 (131)         | 27427 (122)   |
| M Dump angle maximum                                                           | degrees        | 45              | 45            | 45                  | 45            | 45              | 45            | 45                  | 45            |
| N Roll back angle full height                                                  | degrees        | 60              | 60            | 60                  | 60            | 60              | 60            | 60                  | 60            |
| O Roll back at carry                                                           | degrees        | 54              | 54            | 54                  | 54            | 54              | 54            | 54                  | 54            |
| P Roll back at ground level                                                    | degrees        | 45              | 45            | 45                  | 45            | 45              | 45            | 45                  | 45            |
| Q Load over height                                                             | ft-in (mm)     | 14-6 (4414)     | 14-6 (4414)   | 14-6 (4409)         | 14-6 (4409)   | 14-6 (4414)     | 14-6 (4414)   | 14-6 (4409)         | 14-6 (4409)   |
| R Dump height (45 deg dump)                                                    | ft-in (mm)     | 11-4 (3448)     | 11-1 (3384)   | 11-10 (3616)        | 11-7 (3525)   | 11-0 (3363)     | 10-10 (3299)  | 11-6 (3504)         | 11-3 (3440)   |
| S Dig depth                                                                    | ft-in (mm)     | 0-5 (127)       | 0-5 (127)     | 0-4 (101)           | 0-4 (101)     | 0-5 (127)       | 0-5 (127)     | 0-4 (101)           | 0-4 (101)     |
| T Reach at dump height                                                         | ft-in (mm)     | 3-8 (1115)      | 3-10 (1174)   | 3-4 (1011)          | 3-6 (1070)    | 3-11 (1192)     | 4-1 (1250)    | 3-7 (1088)          | 3-9 (1146)    |
| V Pin height                                                                   | ft-in (mm)     | 15-4 (4675)     | 15-4 (4675)   | 15-4 (4675)         | 15-4 (4675)   | 15-4 (4675)     | 15-4 (4675)   | 15-4 (4675)         | 15-4 (4675)   |
| Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)     | 8-0 (2444)      | 8-3 (2508)    | 7-8 (2340)          | 7-11 (2404)   | 7-4 (2229)      | 8-6 (2593)    | 7-11 (2425)         | 8-2 (2489)    |
| Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)        | 34196 (15511)   | 34335 (15574) | 34196 (15511)       | 34335 (15574) | 34796 (15783)   | 34932 (15845) | 34796 (15783)       | 34932 (15845) |

\*Assumes machine is fitted with Michelin 20.5R25 XHA2 (L3) tires, 5 speed transmission and non parallel links.



## TIRE SIZE 437 HT SHL

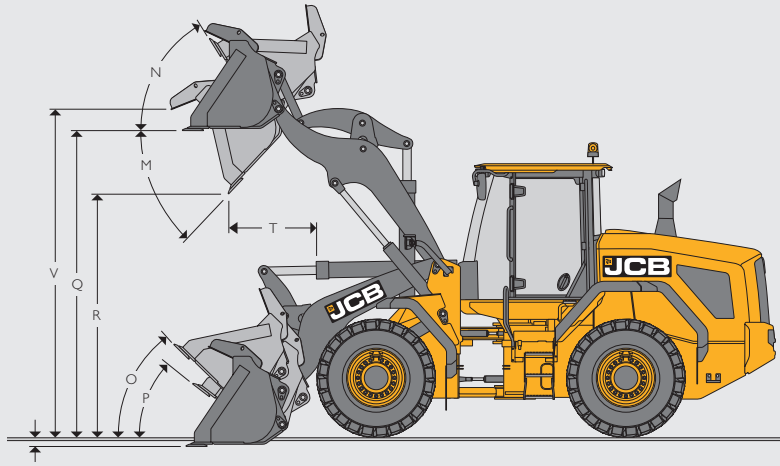
| Tire size | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | HT SHL          |                  | Dimensions          |                  |
|-----------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|           |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25   | Michelin      | XHA                | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0 (0)               | 0 (0)            |
| 20.5R25   | Michelin      | XTLA               | L2     | -247 (-112)                  | -77 (-35)       | -54 (-24)        | -0.3 (-7)           | 0.2 (4)          |
| 550/65R25 | Michelin      | XLD                | L5     | -168 (-76)                   | -52 (-24)       | -37 (-17)        | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25   | Michelin      | XSNOPUS            | L5     | -168 (-76)                   | -52 (-24)       | -37 (-17)        | -0.4 (-11)          | 0.2 (6)          |
| 20.5R25   | Michelin      | XLDD2A             | L3     | 1155 (524)                   | 359 (163)       | 252 (114)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25   | Michelin      | XMINED2            | L2     | 1561 (708)                   | 485 (220)       | 341 (155)        | 2.3 (58)            | 1.3 (34)         |
| 620/75R26 | Michelin      | MEGAXBIB           | N/A    | -703 (-318.8)                | -218 (-99)      | -153 (-70)       | 2.7 (68)            | -0.3 (-7)        |
| 650/65R25 | Michelin      | XLD                | L3     | 1208 (548)                   | 376 (170)       | 264 (120)        | -0.4 (-10)          | 5.3 (134)        |
| 750/65R26 | Michelin      | MEGAXBIB           | N/A    | -153 (-69.6)                 | -48 (-22)       | -34 (-15)        | 3.2 (81)            | 14.1 (359)       |
| 20.5-25   | Goodyear      | SGL (16 ply)       | L2     | -397 (-180)                  | -123 (-56)      | -87 (-39)        | -0.2 (-5)           | 1.0 (26)         |
| 20.5R25   | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 200 (91)        | 141 (64)         | 0.4 (11)            | 0.7 (17)         |
| 20.5R25   | Goodyear      | RL-5K              | L3     | 1358 (616)                   | 422 (191)       | 297 (135)        | 1.9 (49)            | 1.0 (26)         |
| 20.5-25   | Goodyear      | HRL (16 ply)       | L5     | -53 (-24)                    | -16 (-7)        | -11 (-5)         | 1.5 (37)            | 1.0 (26)         |
| 20.5R25   | JCB           | Earthmover         | L3     | 203 (92)                     | 63 (29)         | 44 (20)          | 1.6 (41)            | 0.5 (12)         |
| 20.5R25   | SG Revolution | SE                 | N/A    | 4497 (2040)                  | 1398 (634)      | 982 (446)        | 0.7 (17)            | -0.8 (-20)       |
| 20.5R25   | SG Revolution | S2 C2 DWL          | N/A    | 4771 (2164)                  | 1482 (672)      | 1042 (473)       | 0.2 (6)             | -0.8 (-20)       |
| 20.5-25   | JCB           | Sitemaster (16ply) | L3     | 220 (100)                    | 68 (31)         | 48 (22)          | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25   | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -137 (-62)      | -96 (-44)        | 0.2 (4)             | -0.3 (-7)        |

Heavy-duty axles (required with 5 speed and 750 width agricultural tires and high lift arms).

## LOADER DIMENSIONS 437 HT SHL

|                                                                                |                | Direct          |               |                     |               | Quickhitch      |               |                     |               |
|--------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------------|---------------|-----------------|---------------|---------------------|---------------|
|                                                                                |                | General purpose |               |                     |               | General purpose |               |                     |               |
|                                                                                |                | Tipped teeth    |               | Reversible toeplate |               | Tipped teeth    |               | Reversible toeplate |               |
| Bucket mounting                                                                |                |                 |               |                     |               |                 |               |                     |               |
| Bucket type                                                                    |                |                 |               |                     |               |                 |               |                     |               |
| Bucket equipment                                                               |                |                 |               |                     |               |                 |               |                     |               |
| Bucket capacity (SAE heaped 100%)                                              | yd³ (m³)       | 3.01 (2.3)      | 3.4 (2.6)     | 3.14 (2.4)          | 3.53 (2.7)    | 3.01 (2.3)      | 3.4 (2.6)     | 3.14 (2.4)          | 3.53 (2.7)    |
| Bucket capacity (struck)                                                       | yd³ (m³)       | 2.59 (1.984)    | 2.97 (2.27)   | 2.69 (2.057)        | 3.07 (2.346)  | 2.59 (1.984)    | 2.97 (2.27)   | 2.69 (2.057)        | 3.07 (2.346)  |
| Bucket width                                                                   | ft-in (mm)     | 9-0 (2740)      | 9-0 (2740)    | 8-10 (2700)         | 8-10 (2700)   | 9-0 (2740)      | 9-0 (2740)    | 8-10 (2700)         | 8-10 (2700)   |
| Bucket weight                                                                  | lb (kg)        | 2538 (1151)     | 2698 (1224)   | 2564 (1163)         | 2725 (1236)   | 2478 (1124)     | 2643 (1199)   | 2504 (1136)         | 2670 (1211)   |
| Maximum material density *                                                     | lb/yd³ (kg/m³) | 2124 (1260)     | 1849 (1097)   | 2036 (1208)         | 1780 (1056)   | 1960 (1163)     | 1706 (1012)   | 1879 (1115)         | 1642 (974)    |
| Tipping load straight *                                                        | lb (kg)        | 15177 (6884)    | 14952 (6782)  | 15177 (6884)        | 14952 (6782)  | 14105 (6398)    | 13887 (6299)  | 14105 (6398)        | 13887 (6299)  |
| Tipping load full turn *                                                       | lb (kg)        | 12782 (5798)    | 12571 (5702)  | 12782 (5798)        | 12571 (5702)  | 11801 (5353)    | 11596 (5260)  | 11801 (5353)        | 11596 (5260)  |
| Payload *                                                                      | lb (kg)        | 6391 (2899)     | 6285 (2851)   | 6391 (2899)         | 6285 (2851)   | 5900 (2676)     | 5798 (2630)   | 5900 (2676)         | 5798 (2630)   |
| Maximum breakout force                                                         | lbf (kN)       | 34396 (153)     | 31248 (139)   | 34396 (153)         | 31248 (139)   | 30574 (136)     | 27876 (124)   | 30574 (136)         | 28551 (127)   |
| M Dump angle maximum                                                           | degrees        | 50              | 50            | 50                  | 50            | 50              | 50            | 50                  | 50            |
| N Roll back angle full height                                                  | degrees        | 58              | 58            | 58                  | 58            | 58              | 58            | 58                  | 58            |
| O Roll back at carry                                                           | degrees        | 48              | 48            | 48                  | 48            | 48              | 48            | 48                  | 48            |
| P Roll back at ground level                                                    | degrees        | 43              | 43            | 43                  | 43            | 43              | 43            | 43                  | 43            |
| Q Load over height                                                             | ft-in (mm)     | 16-4 (4981)     | 16-4 (4981)   | 16-4 (4976)         | 16-4 (4976)   | 16-4 (4981)     | 16-4 (4981)   | 16-4 (4976)         | 16-4 (4976)   |
| R Dump height (45 deg dump)                                                    | ft-in (mm)     | 13-2 (4011)     | 12-11 (3947)  | 13-9 (4179)         | 13-5 (4088)   | 12-11 (3926)    | 12-8 (3862)   | 13-4 (4067)         | 13-2 (4003)   |
| S Dig depth                                                                    | ft-in (mm)     | 0-4 (105)       | 0-4 (105)     | 0-3 (79)            | 0-3 (79)      | 0-4 (105)       | 0-4 (105)     | 0-3 (79)            | 0-3 (79)      |
| T Reach at dump height                                                         | ft-in (mm)     | 3-9 (1139)      | 3-11 (1198)   | 3-5 (1035)          | 3-7 (1094)    | 4-0 (1216)      | 4-2 (1274)    | 3-8 (1112)          | 3-11 (1197)   |
| V Pin height                                                                   | ft-in (mm)     | 17-2 (5242)     | 17-2 (5242)   | 17-2 (5242)         | 17-2 (5242)   | 17-2 (5242)     | 17-2 (5242)   | 17-2 (5242)         | 17-2 (5242)   |
| Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)     | 9-7 (2919)      | 9-9 (2983)    | 9-3 (2815)          | 9-5 (2879)    | 8-10 (2704)     | 10-1 (3068)   | 9-6 (2900)          | 9-9 (2964)    |
| Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)        | 35188 (15961)   | 35327 (16024) | 35188 (15961)       | 35327 (16024) | 35788 (16233)   | 35924 (16295) | 35788 (16233)       | 35924 (16295) |

\*Assumes machine is fitted with Michelin 20.5R25 XHA2 (L3) tires, 5 speed transmission and non parallel links.



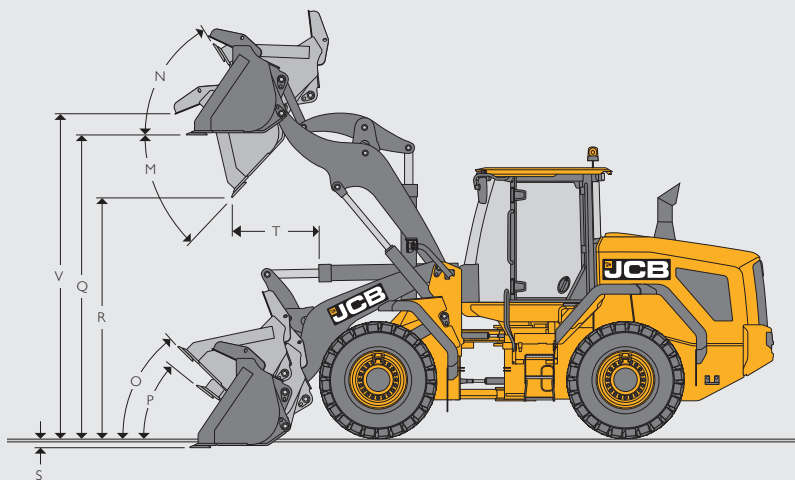
## TIRE SIZE 427 ZX

| Tire size | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | ZX              |                  | Dimensions          |                  |
|-----------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|           |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25   | Michelin      | XHA2               | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0.0 (0)             | 0.0 (0)          |
| 20.5R25   | Michelin      | XTLA               | L2     | -247 (-112)                  | -165 (-75)      | -143 (-65)       | -0.3 (-7)           | 0.2 (4)          |
| 20.5R25   | Michelin      | XLDD2A             | L5     | 1155 (524)                   | 776 (352)       | 670 (304)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25   | Michelin      | XMINED2            | L5     | 1561 (708)                   | 1047 (475)      | 906 (411)        | 2.3 (58)            | 1.3 (34)         |
| 550/65R25 | Michelin      | XLD                | L3     | -168 (-76)                   | -112 (-51)      | -97 (-44)        | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25   | Michelin      | XSNOPLUS           | L2     | -168 (-76)                   | -112 (-51)      | -97 (-44)        | -0.4 (-11)          | 0.2 (6)          |
| 620/75R26 | Michelin      | MEGAXBIB           | N/A    | -696 (-315.6)                | -467 (-212)     | -403 (-183)      | 2.7 (68)            | 4.3 (108)        |
| 650/65R25 | Michelin      | XLD                | L3     | 1215 (551.2)                 | 816 (370)       | 705 (320)        | -0.4 (-10)          | 9.8 (249)        |
| 750/65R26 | Michelin      | MEGAXBIB           | N/A    | -146 (-66.4)                 | -99 (-45)       | -86 (-39)        | 3.2 (81)            | 18.7 (474)       |
| 20.5-25   | Goodyear      | SGL (16 ply)       | L2     | -520 (-236)                  | -348 (-158)     | -302 (-137)      | -0.2 (-5)           | 0.2 (4)          |
| 20.5-25   | Goodyear      | HRL (16 ply)       | L3     | -53 (-24)                    | -35 (-16)       | -31 (-14)        | 1.5 (37)            | 0.2 (4)          |
| 20.5R25   | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 432 (196)       | 373 (169)        | 0.4 (11)            | 0.2 (4)          |
| 20.5R25   | Goodyear      | RL-5K              | L5     | 1199 (544)                   | 805 (365)       | 697 (316)        | 1.9 (49)            | 0.2 (4)          |
| 20.5R25   | JCB           | Earthmover         | L3     | 203 (92)                     | 137 (62)        | 117 (53)         | 1.6 (41)            | 0.5 (12)         |
| 20.5R25   | SG Revolution | SE                 | Solid  | 4504 (2043.2)                | 3023 (1371)     | 2612 (1185)      | 0.7 (17)            | 3.7 (95)         |
| 20.5R25   | SG Revolution | S2 C2 DWL          | Solid  | 4778 (2167.2)                | 3206 (1454)     | 2771 (1257)      | 0.2 (6)             | 3.7 (95)         |
| 20.5-25   | JCB           | Sitemaster (16ply) | L3     | -344 (-156)                  | -231 (-105)     | -198 (-90)       | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25   | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -295 (-134)     | -256 (-116)      | 0.2 (4)             | -0.3 (-7)        |

## LOADER DIMENSIONS 427 ZX

| Bucket mounting                   |                                                                                | Direct          |                |                     |                |                |                | Quickhitch      |               |                     |               |                |                |
|-----------------------------------|--------------------------------------------------------------------------------|-----------------|----------------|---------------------|----------------|----------------|----------------|-----------------|---------------|---------------------|---------------|----------------|----------------|
| Bucket type                       |                                                                                | General purpose |                |                     |                |                |                | General purpose |               |                     |               |                |                |
| Bucket equipment                  |                                                                                | Tipped teeth    |                | Reversible toeplate |                |                |                | Tipped teeth    |               | Reversible toeplate |               |                |                |
| Bucket capacity (SAE heaped 100%) | yd³ (m³)                                                                       | 2.62 (2)        | 2.62 (2)       | 2.49 (1.9)          | 2.75 (2.1)     | 3.14 (2.4)     | 3.53 (2.7)     | 2.35 (1.8)      | 2.62 (2)      | 2.49 (1.9)          | 2.75 (2.1)    | 3.14 (2.4)     | 3.53 (2.7)     |
| Bucket capacity (struck)          | yd³ (m³)                                                                       | 2.25 (1.724)    | 2.25 (1.724)   | 2.11 (1.612)        | 2.33 (1.785)   | 2.69 (2.057)   | 3.07 (2.346)   | 2.03 (1.554)    | 2.29 (1.749)  | 2.08 (1.594)        | 2.34 (1.787)  | 2.69 (2.057)   | 3.07 (2.346)   |
| Bucket width                      | ft-in (mm)                                                                     | 8-4 (2550)      | 8-4 (2550)     | 8-4 (2550)          | 8-4 (2550)     | 8-10 (2700)    | 8-10 (2700)    | 8-4 (2550)      | 8-4 (2550)    | 8-4 (2550)          | 8-4 (2550)    | 8-10 (2700)    | 8-10 (2700)    |
| Bucket weight                     | lb (kg)                                                                        | 1360.27 (1040)  | 1360.27 (1140) | 1209.85 (925)       | 1360.27 (1040) | 1650.63 (1262) | 1738.27 (1329) | 1046.36 (800)   | 1111.76 (850) | 1046.36 (800)       | 1111.76 (850) | 1485.83 (1136) | 1583.93 (1211) |
| Maximum material density *        | lb/yd³ (kg/m³)                                                                 | 3739 (2218)     | 3659 (2171)    | 3980 (2361)         | 3560 (2112)    | 3021 (1792)    | 2648 (1571)    | 3863 (2292)     | 3439 (2040)   | 3661 (2172)         | 3275 (1943)   | 2786 (1653)    | 2439 (1447)    |
| Tipping load straight *           | lb (kg)                                                                        | 22746 (10318)   | 22746 (10126)  | 22987 (10427)       | 22746 (10318)  | 22128 (10037)  | 21842 (9907)   | 21244 (9636)    | 21026 (9537)  | 21244 (9636)        | 21026 (9537)  | 20510 (9303)   | 20225 (9174)   |
| Tipping load full turn *          | lb (kg)                                                                        | 19559 (8872)    | 19559 (8684)   | 19777 (8971)        | 19559 (8872)   | 18966 (8603)   | 18702 (8483)   | 18193 (8252)    | 17993 (8162)  | 18193 (8252)        | 17993 (8162)  | 17491 (7934)   | 17228 (7814)   |
| Payload *                         | lb (kg)                                                                        | 9780 (4436)     | 9780 (4342)    | 9888 (4485)         | 9780 (4436)    | 9483 (4301)    | 9351 (4241)    | 9096 (4126)     | 8997 (4081)   | 9096 (4126)         | 8997 (4081)   | 8746 (3967)    | 8614 (3907)    |
| Maximum breakout force            | lbf (kN)                                                                       | 30349 (135)     | 30349 (135)    | 32597 (145)         | 30349 (135)    | 29000 (129)    | 26977 (120)    | 28326 (126)     | 26527 (118)   | 28326 (126)         | 26527 (118)   | 25403 (113)    | 23830 (106)    |
| M                                 | Dump angle maximum                                                             | degrees         | 45             | 45                  | 45             | 45             | 45             | 45              | 45            | 45                  | 45            | 45             | 45             |
| N                                 | Roll back angle full height                                                    | degrees         | 52             | 52                  | 52             | 52             | 52             | 52              | 52            | 52                  | 52            | 52             | 52             |
| O                                 | Roll back at carry                                                             | degrees         | 44             | 44                  | 44             | 44             | 44             | 44              | 44            | 44                  | 44            | 44             | 44             |
| P                                 | Roll back at ground level                                                      | degrees         | 35             | 35                  | 35             | 35             | 35             | 35              | 35            | 35                  | 35            | 35             | 35             |
| Q                                 | Load over height                                                               | ft-in (mm)      | 12-0 (3645)    | 12-0 (3645)         | 11-11 (3640)   | 11-11 (3640)   | 11-11 (3638)   | 11-11 (3638)    | 12-0 (3645)   | 12-0 (3645)         | 11-11 (3640)  | 11-11 (3640)   | 11-11 (3638)   |
| R                                 | Dump height (45 deg dump)                                                      | ft-in (mm)      | 9-2 (2797)     | 9-2 (2797)          | 9-9 (2973)     | 9-7 (2925)     | 9-6 (2889)     | 9-3 (2825)      | 8-11 (2726)   | 8-10 (2694)         | 9-4 (2852)    | 9-2 (2804)     | 9-1 (2768)     |
| S                                 | Dig depth                                                                      | ft-in (mm)      | 0-1 (33)       | 0-1 (33)            | 0-1 (30)       | 0-1 (30)       | 0-1 (32)       | 0-1 (32)        | 0-1 (33)      | 0-1 (33)            | 0-1 (30)      | 0-1 (30)       | 0-1 (32)       |
| T                                 | Reach at dump height                                                           | ft-in (mm)      | 3-8 (1111)     | 3-8 (1111)          | 3-1 (936)      | 3-3 (986)      | 3-4 (1019)     | 3-7 (1083)      | 3-11 (1182)   | 4-1 (1232)          | 3-6 (1057)    | 3-8 (1107)     | 3-9 (1140)     |
| V                                 | Pin height                                                                     | ft-in (mm)      | 12-10 (3904)   | 12-10 (3904)        | 12-1 (3904)    | 12-10 (3904)   | 12-10 (3904)   | 12-10 (3904)    | 12-10 (3904)  | 12-10 (3904)        | 12-10 (3904)  | 12-10 (3904)   | 12-1 (3904)    |
|                                   | Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)      | 6-1 (1858)     | 6-1 (1858)          | 5-6 (1683)     | 5-8 (1733)     | 5-10 (1766)    | 6-0 (1830)      | 6-4 (1929)    | 6-6 (1979)          | 5-11 (1804)   | 6-1 (1854)     | 6-3 (1907)     |
|                                   | Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)         | 30175 (13687)  | 30175 (13866)       | 30102 (13654)  | 30175 (13687)  | 30708 (13929)  | 30858 (13997)   | 30900 (14016) | 30997 (14060)       | 30900 (14016) | 30997 (14060)  | 31519 (14297)  |
|                                   |                                                                                |                 |                |                     |                |                |                |                 |               |                     |               |                |                |

\*Assumes machine is fitted with Michelin 20.5R25 XHA2 (L3) tires and 5 speed transmission.



## TIRE SIZE 437 ZX

| Tire size  | Manufacturer  | Type               | Rating | Operating weight<br>lbs (kg) | ZX              |                  | Dimensions          |                  |
|------------|---------------|--------------------|--------|------------------------------|-----------------|------------------|---------------------|------------------|
|            |               |                    |        |                              | STL<br>lbs (kg) | FTTL<br>lbs (kg) | Vertical<br>in (mm) | Width<br>in (mm) |
| 20.5R25    | Michelin      | XHA                | L3     | 0 (0)                        | 0 (0)           | 0 (0)            | 0.0 (0)             | 0.0 (0)          |
| 20.5R25    | Michelin      | XTLA               | L2     | -247 (-112)                  | -134 (-61)      | -117 (-53)       | -0.3 (-7)           | 0.2 (4)          |
| 550/65R25  | Michelin      | XLD                | L3     | -168 (-76)                   | -90 (-41)       | -79 (-36)        | -1.7 (-44)          | 0.8 (21)         |
| 20.5R25    | Michelin      | XSNPLUS            | L2     | -168 (-76)                   | -90 (-41)       | -79 (-36)        | -0.4 (-11)          | 0.2 (6)          |
| 20.5R25    | Michelin      | XLDD2A             | L5     | 1155 (524)                   | 631 (286)       | 545 (247)        | 1.2 (30)            | 0.2 (6)          |
| 20.5R25    | Michelin      | XMINED2            | L5     | 1561 (708)                   | 851 (386)       | 736 (334)        | 2.3 (58)            | 1.3 (34)         |
| 620/75R26  | Michelin      | MEGAXBIB           | N/A    | -703 (-318.8)                | -384 (-174)     | -331 (-150)      | 2.7 (68)            | -0.3 (-7)        |
| 650/65 R25 | Michelin      | XLD                | L3     | 1208 (548)                   | 659 (299)       | 571 (259)        | -0.4 (-10)          | 5.3 (134)        |
| 750/65 R26 | Michelin      | MEGAXBIB           | N/A    | -153 (-69.6)                 | -84 (-38)       | -73 (-33)        | 3.2 (81)            | 14.1 (359)       |
| 20.5-25    | Goodyear      | SGL (16 ply)       | L2     | -397 (-180)                  | -216 (-98)      | -187 (-85)       | -0.2 (-5)           | 1.0 (26)         |
| 20.5R25    | Goodyear      | TL-3A+             | L3     | 644 (292)                    | 351 (159)       | 304 (138)        | 0.4 (11)            | 0.7 (17)         |
| 20.5R25    | Goodyear      | RL-5K              | L5     | 1358 (616)                   | 741 (336)       | 642 (291)        | 1.9 (49)            | 1.0 (26)         |
| 20.5-25    | Goodyear      | HRL (16 ply)       | L3     | -53 (-24)                    | -29 (-13)       | -24 (-11)        | 1.5 (37)            | 1.0 (26)         |
| 20.5R25    | JCB           | Earthmover         | L3     | 203 (92)                     | 110 (50)        | 95 (43)          | 1.6 (41)            | 0.5 (12)         |
| 20.5R25    | SG Revolution | SE                 | Solid  | 4497 (2040)                  | 2456 (1114)     | 2121 (962)       | 0.7 (17)            | -0.8 (-20)       |
| 20.5R25    | SG Revolution | S2 C2 DWL          | Solid  | 4771 (2164)                  | 2604 (1181)     | 2251 (1021)      | 0.2 (6)             | -0.8 (-20)       |
| 20.5-25    | JCB           | Sitemaster (16ply) | L3     | 220 (100)                    | 121 (55)        | 104 (47)         | 0.8 (21)            | -0.3 (-7)        |
| 20.5R25    | Nokian        | GRIP TL            | L3     | -441 (-200)                  | -240 (-109)     | -207 (-94)       | 0.2 (4)             | -0.3 (-7)        |

## LOADER DIMENSIONS 437 ZX

|   | Bucket mounting                                                                | Direct          |               |               |                     |               | Quickhitch      |               |                     |               |               |
|---|--------------------------------------------------------------------------------|-----------------|---------------|---------------|---------------------|---------------|-----------------|---------------|---------------------|---------------|---------------|
|   | Bucket type                                                                    | General purpose |               |               |                     |               | General purpose |               |                     |               |               |
|   | Bucket equipment                                                               | Tipped teeth    |               |               | Reversible toeplate |               | Tipped teeth    |               | Reversible toeplate |               |               |
|   | Bucket capacity (SAE heaped 100%)                                              | yd³ (m³)        | 3.01 (2.3)    | 3.4 (2.6)     | 3.4 (2.6)           | 3.14 (2.4)    | 3.53 (2.7)      | 3.01 (2.3)    | 3.4 (2.6)           | 3.14 (2.4)    | 3.53 (2.7)    |
|   | Bucket capacity (struck)                                                       | yd³ (m³)        | 2.59 (1.984)  | 2.97 (2.274)  | 2.97 (2.274)        | 2.69 (2.057)  | 3.07 (2.346)    | 2.59 (1.984)  | 2.97 (2.274)        | 2.69 (2.057)  | 3.07 (2.346)  |
|   | Bucket width                                                                   | ft-in (mm)      | 9-0 (2740)    | 9-0 (2740)    | 9-0 (2740)          | 8-10 (2700)   | 8-10 (2700)     | 9-0 (2740)    | 9-0 (2740)          | 8-10 (2700)   | 8-10 (2700)   |
|   | Bucket weight                                                                  | lb (kg)         | 1635 (1250)   | 1723 (1317)   | 1780 (1361)         | 1651 (1262)   | 1738 (1329)     | 1470 (1124)   | 1568 (1199)         | 1486 (1136)   | 1584 (1211)   |
|   | Maximum material density *                                                     | lb/yd³ (kg/m³)  | 3558 (2111)   | 3118 (1850)   | 3042 (1805)         | 3410 (2023)   | 3004 (1782)     | 3310 (1964)   | 2891 (1715)         | 3174 (1883)   | 2783 (1651)   |
|   | Tipping load straight *                                                        | lb (kg)         | 24983 (11332) | 24723 (11214) | 24235 (10993)       | 24983 (11332) | 24723 (11214)   | 23349 (10591) | 23063 (10461)       | 23349 (10591) | 23063 (10461) |
|   | Tipping load full turn *                                                       | lb (kg)         | 21409 (9711)  | 21213 (9622)  | 20693 (9386)        | 21409 (9711)  | 21213 (9622)    | 19921 (9036)  | 19656 (8916)        | 19921 (9036)  | 19656 (8916)  |
|   | Payload *                                                                      | lb (kg)         | 10706 (4856)  | 10606 (4811)  | 10346 (4693)        | 10706 (4856)  | 10606 (4811)    | 9960 (4518)   | 9828 (4458)         | 9960 (4518)   | 9828 (4458)   |
|   | Maximum breakout force                                                         | lbf (kN)        | 39566 (176)   | 36419 (162)   | 36419 (162)         | 39566 (176)   | 36419 (162)     | 35295 (157)   | 32372 (144)         | 35295 (157)   | 32372 (144)   |
| M | Dump angle maximum                                                             | degrees         | 45            | 45            | 45                  | 45            | 45              | 45            | 45                  | 45            | 45            |
| N | Roll back angle full height                                                    | degrees         | 52            | 52            | 52                  | 52            | 52              | 52            | 52                  | 52            | 52            |
| O | Roll back at carry                                                             | degrees         | 44            | 44            | 44                  | 44            | 44              | 44            | 44                  | 44            | 44            |
| P | Roll back at ground level                                                      | degrees         | 35            | 35            | 35                  | 35            | 35              | 35            | 35                  | 35            | 35            |
| Q | Load over height                                                               | ft-in (mm)      | 12-4 (3760)   | 12-4 (3760)   | 12-4 (3760)         | 12-4 (3755)   | 12-4 (3755)     | 12-4 (3760)   | 12-4 (3760)         | 12-4 (3755)   | 12-4 (3755)   |
| R | Dump height (45 deg dump)                                                      | ft-in (mm)      | 9-4 (2841)    | 9-1 (2776)    | 9-1 (2776)          | 9-9 (2982)    | 9-6 (2900)      | 9-1 (2756)    | 8-10 (2691)         | 9-6 (2897)    | 9-1 (2765)    |
| S | Dig depth                                                                      | ft-in (mm)      | 0-5 (131)     | 0-5 (131)     | 0-5 (131)           | 0-4 (105)     | 0-4 (105)       | 0-5 (131)     | 0-5 (131)           | 0-4 (105)     | 0-4 (105)     |
| T | Reach at dump height                                                           | ft-in (mm)      | 3-9 (1151)    | 4-0 (1225)    | 4-0 (1215)          | 3-5 (1047)    | 3-4 (1006)      | 4-1 (1236)    | 4-3 (1300)          | 3-9 (1132)    | 3-7 (1091)    |
| V | Pin height                                                                     | ft-in (mm)      | 13-2 (4021)   | 13-2 (4021)   | 13-2 (4021)         | 13-2 (4021)   | 13-2 (4021)     | 13-2 (4021)   | 13-2 (4021)         | 13-2 (4021)   | 13-2 (4021)   |
|   | Reach maximum (45 deg dump) horizontal arm                                     | ft-in (mm)      | 6-3 (1903)    | 6-5 (1967)    | 6-5 (1967)          | 5-11 (1799)   | 6-1 (1850)      | 6-6 (1980)    | 6-8 (2044)          | 6-2 (1876)    | 6-4 (1927)    |
|   | Operating weight (includes 165lbs (75kg) operator and full fuel and DEF tanks) | lb (kg)         | 34086 (15461) | 34236 (15529) | 34677 (15729)       | 34086 (15461) | 34236 (15529)   | 34897 (15829) | 35034 (15891)       | 34897 (15829) | 35034 (15891) |

\*Assumes machine is fitted with Michelin 20.5R25 XHA2 (L3) tires and 5 speed transmission.

| ENGINE                                   |                        |                                                     |                       |
|------------------------------------------|------------------------|-----------------------------------------------------|-----------------------|
|                                          |                        | 427                                                 | 437                   |
| Type                                     |                        | Cummins                                             |                       |
| Model                                    |                        | QSB                                                 |                       |
| Capacity                                 | Liter                  | 6.7                                                 |                       |
| Aspiration                               |                        | Turbo Charged                                       |                       |
| Cylinders                                |                        | 6                                                   |                       |
| Max. gross power to SAE J1995/ISO 14396  | hp (kW)                | 179 (133) @ 1,700 RPM                               | 183 (136) @ 2,000 RPM |
| Net peak power ISO9249                   | hp (kW)                | 171 (127) @ 1,700 RPM                               | 175 (130) @ 1,700 RPM |
| Net peak torque ISO9249                  | lb-ft (Nm)             | 612 (829) @ 1,500 RPM                               | 612 (829) @ 1,500 RPM |
| Rated gross power to SAE J1995/ISO 14396 | hp (kW) @ 2,100 RPM    | 158 (118)                                           | 173 (129)             |
| Net power to ISO 9249                    | hp (kW) @ 2,100 RPM    | 146 (109)                                           | 161 (120)             |
| Max torque                               | lb-ft (Nm) @ 1,500 RPM | 620 (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 |                               |              |              |                                           |              |                               |              |                                           |  |
|--------------|-------------------------------|--------------|--------------|-------------------------------------------|--------------|-------------------------------|--------------|-------------------------------------------|--|
|              | 427                           |              |              | 427                                       |              | 437                           |              | 437                                       |  |
|              | 4 speed non-lock up converter |              |              | 5 speed with lock up converter (optional) |              | 4 speed non-lock up converter |              | 5 speed with lock up converter (optional) |  |
| Type         | ZF                            |              |              |                                           |              |                               |              |                                           |  |
| Model        | 4WG160                        |              | 5WG160       |                                           | 4WG190       |                               | 5WG190       |                                           |  |
|              | Forward                       | Reverse      | Forward      | Reverse                                   | Forward      | Reverse                       | Forward      | Reverse                                   |  |
| 1 mph (kph)  | 4.08 (6.6)                    | 4.31 (6.9)   | 4.23 (6.8)   | 4.47 (7.2)                                | 4.25 (6.8)   | 4.48 (7.2)                    | 4.36 (7.0)   | 4.60 (7.4)                                |  |
| 2 mph (kph)  | 8.13 (13.1)                   | 8.56 (13.8)  | 7.74 (12.5)  | 8.15 (13.1)                               | 7.94 (12.8)  | 8.35 (13.4)                   | 7.92 (12.7)  | 8.35 (13.4)                               |  |
| 3 mph (kph)  | 14.60 (23.5)                  | 15.32 (24.7) | 11.90 (19.2) | 18.71 (30.1)                              | 15.26 (24.6) | 15.98 (25.7)                  | 12.14 (19.5) | 19.75 (31.8)                              |  |
| 4 mph (kph)  | 23.92 (38.5)                  |              | 17.77 (28.6) |                                           | 23.61 (38.0) |                               | 18.76 (30.2) |                                           |  |
| 5 mph (kph)  |                               |              | 24.85 (40.0) |                                           |              |                               | 24.85 (40.0) |                                           |  |

Please note the above data is based on Michelin 20.5R25 XHA2 (L3) tires, figures may vary depending on tires fitted.

| AXLES                 |                                                    |                                                    |
|-----------------------|----------------------------------------------------|----------------------------------------------------|
| Model                 | 427                                                |                                                    |
| Type                  | Standard                                           | Heavy duty                                         |
| Make and model        | ZF MT-L 3075 II (front),<br>ZF MT-L 3075 II (rear) | ZF MT-L 3085 II (front),<br>ZF MT-L 3075 II (rear) |
| Overall axle ratio    | 21.53 : 1                                          |                                                    |
| Rear axle oscillation | +/- 10.5 Degrees                                   | +/- 10.5 Degrees                                   |
| Model                 | 437                                                |                                                    |
| Type                  | Heavy duty                                         |                                                    |
| Make and model        | ZF MT-L 3085 II (front), ZF MT-L 3075 II (rear)    |                                                    |
| Overall axle ratio    | 21.53 : 1                                          |                                                    |
| Rear axle oscillation | +/- 10.5 Degrees                                   |                                                    |

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

| ELECTRICAL SYSTEM |  |          |     |
|-------------------|--|----------|-----|
| System voltage    |  | Volt     | 24  |
| Alternator output |  | Amp hour | 120 |
| Battery capacity  |  | Amp hour | 110 |

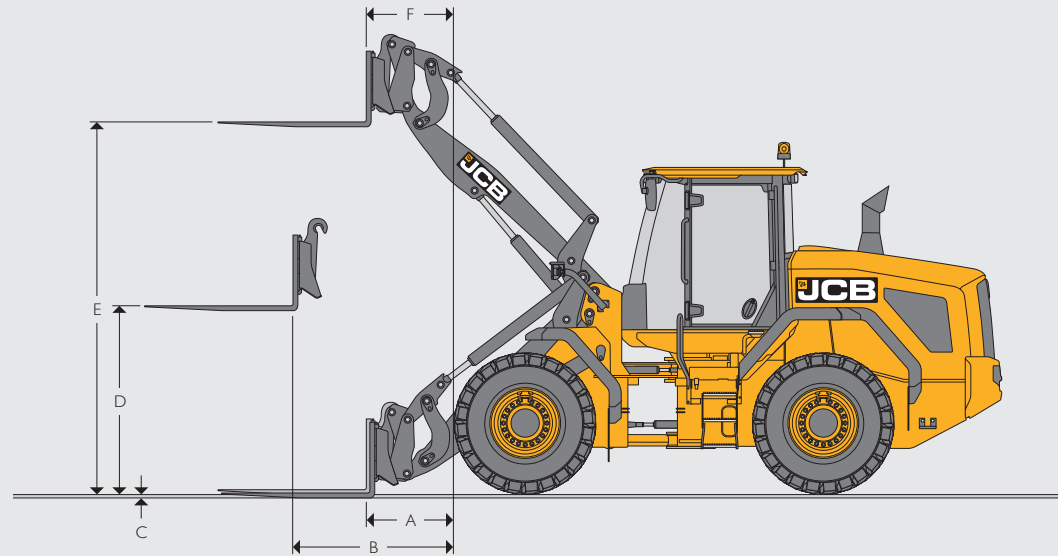
  

| HYDRAULICS                                |                 |                       |             |
|-------------------------------------------|-----------------|-----------------------|-------------|
|                                           |                 | 427                   | 437         |
| Pump type                                 |                 | Variable displacement |             |
| Pump 1 max. flow                          | gal/min (l/min) | 33.29 (126)           | 33.29 (126) |
| Pump 1 max. pressure                      | psi (bar)       | 3626 (250)            | 3626 (250)  |
| Pump 2 max. flow                          | gal/min (l/min) | 33.29 (126)           | 33.29 (126) |
| Pump 2 max. pressure                      | psi (bar)       | 2321 (160)            | 2321 (160)  |
| Hydraulic cycle times at full engine revs |                 |                       |             |
| Arms raise (full bucket)                  | Seconds         | 5.08                  | 6.24        |
| Bucket dump (full bucket)                 | Seconds         | 1.41                  | 1.96        |
| Arms lower (empty bucket)                 | Seconds         | 3.3                   | 4.63        |
| Total cycle                               | Seconds         | 9.79                  | 12.83       |

|          |                                                                                                                                                                                       |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAB      | In-cab noise level – 68dB(A).                                                                                                                                                         |
| STEERING | Hydraulic power steering.                                                                                                                                                             |
| BRAKES   | Hydraulic power braking on all wheels. In-board mounted, oil immersed, multi-plate disc brakes.<br>Parking brake, electro-hydraulic disc type operating on transmission output shaft. |

| SERVICE FILL CAPACITIES |                 |            |     |
|-------------------------|-----------------|------------|-----|
|                         |                 | 427        | 437 |
| Hydraulic system        | gallons (liter) | 55.5 (210) |     |
| Fuel tank               | gallons (liter) | 76.6 (290) |     |
| DEF Tank                | gallons (liter) | 10.6 (40)  |     |

## LOADER DIMENSIONS WITH FORKS



## LOADER DIMENSIONS WITH FORKS

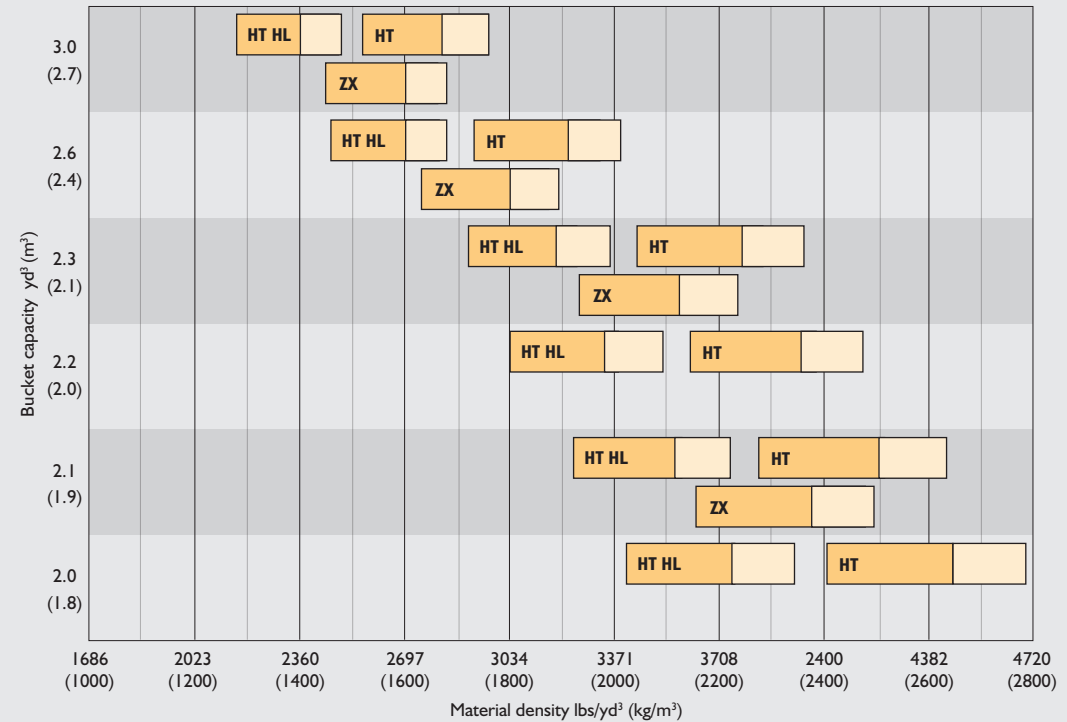
|   |                                                                       | 427 HT     |               | 427 HT HL     |               | 437 HT        |               | 437 HT HL     |                 | 437 HT SHL    | 427 ZX        | 437 ZX        |
|---|-----------------------------------------------------------------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|
|   |                                                                       | Parallel   | Non parallel  | Parallel      | Non parallel  | Parallel      | Non parallel  | Parallel      | Non parallel    | Non parallel  | Parallel      | Parallel      |
|   | Fork carriage width                                                   | ft-in (mm) | 4-11 (1500)   | 4-11 (1500)   | 4-11 (1500)   | 4-11 (1500)   | 4-11 (1500)   | 4-11 (1500)   | 4-11 (1500)     | 4-11 (1500)   | 4-11 (1500)   | 4-11 (1500)   |
|   | Length of tines                                                       | ft-in (mm) | 4-0 (1220)    | 4-0 (1220)    | 4-0 (1220)    | 4-0 (1220)    | 4-0 (1220)    | 4-0 (1220)    | 4-0 (1220)      | 4-0 (1220)    | 4-0 (1220)    | 4-0 (1220)    |
| A | Reach at ground level                                                 | ft-in (mm) | 2-6 (769)     | 2-6 (769)     | 4-1 (1238)    | 4-1 (1238)    | 2-11 (882)    | 2-11 (882)    | 5-0 (1518)      | 5-0 (1518)    | 6-10 (2079)   | 2-6 (769)     |
| B | Reach at arms horizontal                                              | ft-in (mm) | 5-1 (1546)    | 5-1 (1546)    | 6-3 (1895)    | 6-3 (1895)    | 5-4 (1636)    | 5-4 (1636)    | 7-0 (2126)      | 7-0 (2126)    | 8-6 (2596)    | 5-1 (1546)    |
| C | Top of tine above ground with arms down                               | ft-in (mm) | -1-10 (-52)   | -1-11 (-25)   | 0-0 (11)      | 0-1 (38)      | 0-0 (8)       | 0-1 (16)      | 0-0 (3)         | 0-0 (11)      | 0-0 (-11)     | -1-10 (-52)   |
| D | Arms, horizontal height                                               | ft-in (mm) | 6-3 (1906)    | 6-2 (1867)    | 6-3 (1906)    | 6-2 (1867)    | 6-5 (1946)    | 6-4 (1936)    | 6-5 (1946)      | 6-4 (1936)    | 6-4 (1936)    | 6-3 (1906)    |
| E | Arms, maximum height                                                  | ft-in (mm) | 12-2 (3718)   | 12-1 (3695)   | 13-7 (4148)   | 13-6 (4125)   | 12-7 (3828)   | 12-6 (3818)   | 14-8 (4482)     | 14-8 (4472)   | 16-6 (5035)   | 12-2 (3718)   |
| F | Reach at maximum height                                               | ft-in (mm) | 2-8 (802)     | 2-8 (824)     | 2-9 (848)     | 2-10 (875)    | 2-10 (873)    | 2-11 (882)    | 2-10 (875)      | 2-11 (889)    | 3-0 (907)     | 2-8 (802)     |
|   | Tipping load straight                                                 | lb (kg)    | 22540 (10224) | 24207 (10980) | 17514 (7944)  | 18517 (8399)  | 21140 (9589)  | 22463 (10189) | 17808 (8077.58) | 18755 (8507)  | 10326 (4684)  | 19339 (8772)  |
|   | Tipping load full turn (40°)                                          | lb (kg)    | 21136 (9587)  | 20889 (9475)  | 15106 (6852)  | 15977 (7247)  | 18078 (8200)  | 19215 (8716)  | 15189 (6889.66) | 16001 (7258)  | 12033 (5458)  | 16645 (7550)  |
|   | Payload*                                                              | lb (kg)    | 11023 (5000)  | 11023 (5000)  | 11023 (5000)  | 11023 (5000)  | 11023 (5000)  | 11023 (5000)  | 11023 (5000)    | 11023 (5000)  | 9628 (4367)   | 13316 (6040)  |
|   | Attachment weight                                                     | lb (kg)    | 946 (429)     | 946 (429)     | 946 (429)     | 946 (429)     | 946 (429)     | 946 (429)     | 946 (429)       | 946 (429)     | 946 (429)     | 946 (429)     |
|   | Operating weight (includes 75kg operator and full fuel and DEF tanks) | lb (kg)    | 28720 (13027) | 28720 (13027) | 29183 (13237) | 29183 (13237) | 32481 (14733) | 32481 (14733) | 33404 (15152)   | 33404 (15152) | 34397 (15602) | 30128 (13666) |

\* At the center of gravity distance 23.6" (600mm). Based on 80% of FTTL as defined in ISO 14397-1:2007. Assume Michelin 20.5R25 XHA2 (L3) and 5 speed transmission.

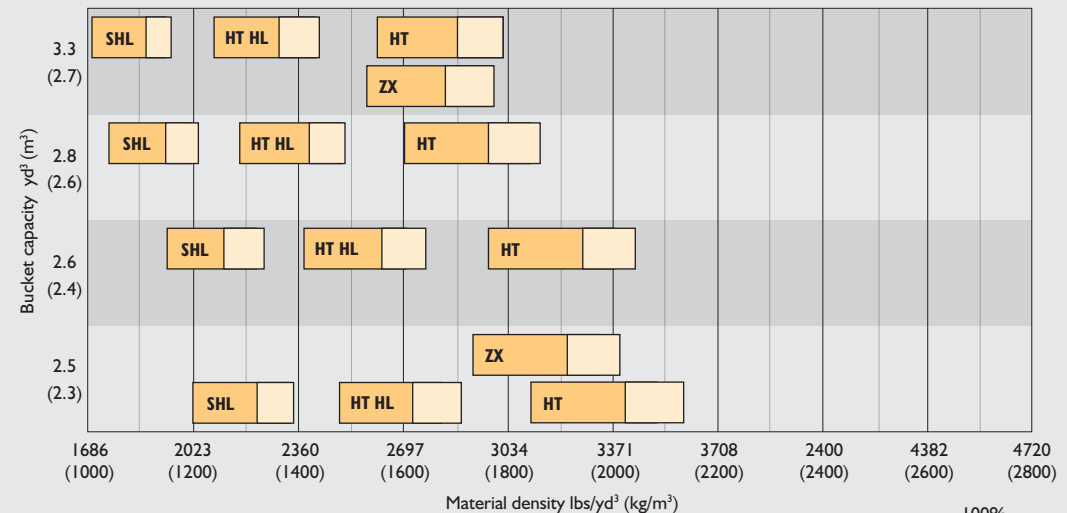
## MATERIAL DENSITY

| Material                     | Loose density      |                   | Fill factor |
|------------------------------|--------------------|-------------------|-------------|
|                              | lb/yd <sup>3</sup> | kg/m <sup>3</sup> |             |
| Snow (fresh)                 | 337                | 200               | 110         |
| Peat (dry)                   | 674                | 400               | 100         |
| Sugar beet                   | 893                | 530               | 100         |
| Coke (loose)                 | 961                | 570               | 85          |
| Barley                       | 1011               | 600               | 85          |
| Petroleum coke               | 1146               | 680               | 85          |
| Wheat                        | 1230               | 730               | 85          |
| Coal bituminous              | 1289               | 765               | 100         |
| Fertilizer (mixed)           | 1736               | 1030              | 85          |
| Coal anthracite              | 1763               | 1046              | 100         |
| Earth (dry) (loose)          | 1938               | 1150              | 100         |
| Nitrate fertilizer           | 2107               | 1250              | 85          |
| Sodium chloride (dry) (salt) | 2191               | 1300              | 85          |
| Cement portland              | 2427               | 1440              | 100         |
| Limestone (crushed)          | 2579               | 1530              | 100         |
| Sand (dry)                   | 2613               | 1550              | 100         |
| Asphalt                      | 2697               | 1600              | 100         |
| Gravel (dry)                 | 2781               | 1650              | 85          |
| Clay (wet)                   | 2832               | 1680              | 110         |
| Sand (wet)                   | 3186               | 1890              | 110         |
| Fire clay                    | 3506               | 2080              | 100         |
| Copper (concentrate)         | 3877               | 2300              | 85          |
| Slate                        | 4720               | 2800              | 100         |
| Magnetite                    | 5401               | 3204              | 100         |

## BUCKET CAPACITIES – 427



## BUCKET CAPACITIES – 437



HT = Standard height arm HL = High Lift arm SHL = Super high lift arm ZX = Z bar

100%  
115% 95%  
Bucket fill factors

| EQUIPMENT                                                         |   |                                                                          |   |
|-------------------------------------------------------------------|---|--------------------------------------------------------------------------|---|
| SERVICE AND MAINTENANCE                                           |   | ELECTRICAL (CONTINUED)                                                   |   |
| 5 year LiveLink telematics                                        | • | Blue LED reverse lights                                                  | + |
| Engine oil remote drain and fill                                  | • |                                                                          |   |
| Grouped pressure test points                                      | • | DRIVE TRAIN                                                              |   |
| Lockable tool box                                                 | • | 4 speed transmission                                                     | • |
| Lubrication points accessible from ground level                   | • | 5 speed transmission with lock-up torque converter                       | + |
|                                                                   |   | 6 speed transmission with lock-up torque converter (427 AGRI model only) | + |
|                                                                   |   | Epicyclical wheel hub reduction                                          | • |
|                                                                   |   | Fixed front axle                                                         | • |
|                                                                   |   | Gear kick down on loader control lever                                   | • |
|                                                                   |   | Indicator glass for transmission oil level                               | • |
|                                                                   |   | Limited slip differentials front and rear                                | • |
|                                                                   |   | Loader lever direction control                                           | • |
|                                                                   |   | Neutral start                                                            | • |
|                                                                   |   | Standard differential                                                    | + |
|                                                                   |   | Standard differential with automatic locking - 100% (front axle only)    | + |
|                                                                   |   | Oscillating rear axle                                                    | • |
|                                                                   |   | Power-inch intelligent clutch cut off on footbrake (selectable)          | • |
|                                                                   |   | Heavy-duty front axle (427 only)                                         | + |
|                                                                   |   | Sintered brake pads                                                      | + |
|                                                                   |   | Selectable automatic power shift                                         | • |
|                                                                   |   | Speed limiter 20km/h                                                     | + |
|                                                                   |   | Steering column single lever shift control (direction and gear)          | • |
|                                                                   |   | Transmission cooler bypass                                               | + |
|                                                                   |   |                                                                          |   |
| ENGINE                                                            |   | BRAKE SYSTEM                                                             |   |
| Air cleaner – cyclonic pre filter with engine fan scavenge system | • | Multi-plate wet disc brakes                                              | • |
| Automatically reversing cooling fan                               | + | Sintered brake pads                                                      | • |
| Crankcase breather oil trap                                       | • | Dual circuit hydraulic power                                             | • |
| DEF fluid                                                         | • | Wheel speed braking                                                      | • |
| Electrical opening rear engine hood                               | • | Parking disc brake on transmission output shaft                          | • |
| Epoxy coated radiator / coolers                                   | + | Electrical hydraulic park brake actuation                                | • |
| Fixed mounted fan                                                 | • | Accumulator back-up for electric park brake                              | • |
| Fuel filter                                                       | • |                                                                          |   |
| Fuel pre-filter with water trap                                   | • | OPERATOR STATION                                                         |   |
| Hydraulically driven cooling fan                                  | • | Fully glazed cab                                                         | • |
| Manual override rear engine hood opening                          | • | Front low window guards                                                  | + |
| -4°F (-20°C) cold start                                           | • | Air conditioning                                                         | • |
| SCR engine emission control                                       | • | Climate control                                                          | + |
| Swing out fan                                                     | + | Single lever joystick                                                    | • |
| Waste gated turbo                                                 | • | Multi-lever hydraulic controls                                           | + |
| Widecore cooling pack                                             | • | Proportional electro hydraulic auxiliary control                         | + |
| Engine block heater (110V)                                        | • | Electronically Adjustable hydraulic auxiliary flow rate                  | + |
| Auxiliary fuel tank +29 gal (110 liter) (427 AGRI only)           | + | Air suspension cloth seat                                                | • |
|                                                                   |   | Deluxe heated air suspension cloth seat                                  | + |
|                                                                   |   | Super deluxe heated and cooled air suspension half leather seat          | + |
|                                                                   |   | Front roller sun visor                                                   | • |
|                                                                   |   | Rear roller sun visor                                                    | + |
|                                                                   |   | Cab air intake filter                                                    | • |
|                                                                   |   |                                                                          |   |
| ELECTRICAL                                                        |   | OPERATOR STATION (CONTINUED)                                             |   |
| 120 amp alternator                                                | • | Carbon cab air intake filter                                             | + |
| Amber rotating beacon                                             | • | 12V in cab power socket                                                  | • |
| Electrical adjustable mirrors                                     | • | 2 x 12V in cab power socket                                              | + |
| Heated mirrors                                                    | • | 24V in cab power socket                                                  | + |
| External battery isolator                                         | • | Reversing camera (color)                                                 | + |
| Fold down beacon arm                                              | • | Fold away adjustable steering column                                     | • |
| Green seat belt beacon                                            | + | ROPS/FOPS safety structure                                               | • |
| Halogen front and rear working lights                             | • | Interior light                                                           | • |
| Hazard warning lights                                             | • | Front primary display screen                                             | • |
| Integrated rear view camera                                       | + | Secondary A post display screen, rotary control menu interface           | + |
| LED front and rear working lights                                 | + | A post mounted membrane switches                                         | • |
| LED 360 degree working lights                                     | + | Variable fan speed control on climate control system                     | + |
| Number plate light kit                                            | + | 2 inch seat belt                                                         | • |
| Parking lights                                                    | • | 3 inch seat belt                                                         | + |
| Radio wiring and speakers                                         | • | Two speed intermittent front window wipe/wash and self-park              | • |
| Rear fog light                                                    | • | Single speed rear window wipe/wash and self-park                         | • |
| Reverse alarm and light                                           | • | 3 speed heater/demisting                                                 | • |
| Smart reverse alarm and light                                     | + | Variable speed heater                                                    | • |
| White noise reverse alarm and light                               | + | LH and RH sliding opening windows                                        | • |
| Work lights in rear grill                                         | • | Floor mat                                                                | • |
| Engine hood operation alarm                                       | • | Cup holder                                                               | • |
|                                                                   |   | Steering wheel spinner knob                                              | • |
|                                                                   |   | Internal rear view mirror                                                | • |
|                                                                   |   | Tinted cab glass                                                         | • |
|                                                                   |   | Multi-media port (USB and audio Jack)                                    | + |
|                                                                   |   | Operator storage                                                         | • |
|                                                                   |   | Laminated window                                                         | • |
|                                                                   |   | Heated rear window                                                       | • |
|                                                                   |   | Loader control isolator                                                  | • |
|                                                                   |   | Horn                                                                     | • |
|                                                                   |   | Adjustable armrest                                                       | • |
|                                                                   |   | Removable storage rubber mats                                            | • |
|                                                                   |   | Convex mirror kit (1 on each side)                                       | + |
|                                                                   |   | Adjustable seat mounted controls                                         | • |
|                                                                   |   | Electronic adjustment of SRS (Smooth Ride System) cut in speed           | + |
|                                                                   |   | Electronic adjustment of reverse fan interval                            | + |
|                                                                   |   |                                                                          |   |
|                                                                   |   | FRONT PRIMARY DISPLAY                                                    |   |
|                                                                   |   | Warning lights                                                           |   |
|                                                                   |   | Direction indicators                                                     | • |
|                                                                   |   | Master warning                                                           | • |
|                                                                   |   | High coolant temperature                                                 | • |
|                                                                   |   | Battery charging condition                                               | • |
|                                                                   |   | Low fuel level                                                           | • |
|                                                                   |   | Engine oil pressure                                                      | • |
|                                                                   |   | Hazard lamps                                                             | • |
|                                                                   |   | Park brake state                                                         | • |

## EQUIPMENT (CONTINUED)

## FRONT PRIMARY DISPLAY

| Warning lights (continued)              |   |
|-----------------------------------------|---|
| Road lights                             | • |
| Main beam lights                        | • |
| Rear fog lights                         | • |
| Engine pre-heat                         | • |
| Brake system pressure                   | • |
| Differential lock                       | • |
| Low steering pressure                   | • |
| Buzzer alerts                           |   |
| Engine air filter blocked               | • |
| Diesel exhaust fluid (DEF)              | • |
| Torque reduction in case of malfunction | • |
| Amber warning lamp                      | • |
| Stop engine                             | • |
| 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                           | • |

## FRONT PRIMARY DISPLAY (CONTINUED)

| Data screens (continued)   |   |
|----------------------------|---|
| Trip distance (resettable) | • |
| Hours to service           | • |
| Daily checks               |   |
| Engine oil level           | • |
| DEF level                  | • |

## RIGHT HAND SECONDARY DISPLAY (OPTIONAL)

| Clock                                          | • |
|------------------------------------------------|---|
| Climate control                                | • |
| Fan speed                                      | • |
| In cab temperature set                         | • |
| Machine hours                                  | • |
| Rear view camera with full-screen reverse mode | • |
| Fuel use                                       | • |
| Adjustable smooth ride engagement speed        | + |
| Adjustable reverse fan intervals               | + |
| Adjustable auxiliary flow                      | + |
| Adjustable constant flow                       | + |
| Time and date                                  | • |
| 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 quick hitch with in cab isolation | + |
| Auxiliary ARV kit                           | + |
| Auxiliary hydraulic service                 | + |
| Twin auxiliary hydraulic service            | + |
| Twin piston pumps with priority steer       | • |
| Emergency steer back-up                     | • |
| JCB biodegradable hydraulic oil             | + |
| Electronic hydraulic isolation              | • |
| Automatic boom kick-out. Detent             | • |
| Automatic bucket positioner                 | • |

## HYDRAULIC SYSTEM (CONTINUED)

|                                         |   |
|-----------------------------------------|---|
| Front loader float                      | • |
| Constant auxiliary flow                 | • |
| Indicator glass for hydraulic oil level | • |
| Hydraulic oil cooler                    | • |

## EXTERNAL EQUIPMENT

|                                                                           |   |
|---------------------------------------------------------------------------|---|
| Front and rear fenders                                                    | • |
| Full rear fenders                                                         | + |
| Front adjustable mud flaps                                                | • |
| Front wheel spray guards                                                  | • |
| Full tire width coverage fenders                                          | • |
| Rear object detection radar system with in cab display                    | + |
| Automatic greasing system                                                 | + |
| Grease gun and cartridge                                                  | + |
| One piece electrical opening engine hood                                  | • |
| Mesh air intake screens                                                   | • |
| Flexible bottom step                                                      | • |
| Full width rear counterweight                                             | • |
| Recovery hitch                                                            | • |
| Lifting / tie down lugs                                                   | • |
| Rockinger rear towing hitch with hydraulic braking system (427 AGRI only) | + |

## PROTECTIVE EQUIPMENT

|                                                                                                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Front cab screen guards                                                                                                                                             | + |
| Wastemaster package: includes front and rear light guards, front screen guard, front and rear belly guards, rear light guards, widcore radiator, Wastemaster decal. | + |
| Heavy-duty rear grill guard (available black or white)                                                                                                              | + |
| Safety strut loader arm                                                                                                                                             | • |
| Light guards                                                                                                                                                        | + |
| Front belly guard kits                                                                                                                                              | + |
| Rear belly guard kits                                                                                                                                               | + |
| Articulation joint safety strut                                                                                                                                     | • |

## OTHER EQUIPMENT

|                                          |   |
|------------------------------------------|---|
| HT High Lift loader end (427 and 437)    | + |
| HT Super High Lift loader end (437 only) | + |
| Parallel lift HT loader arms             | + |

STANDARD •

OPTIONAL +





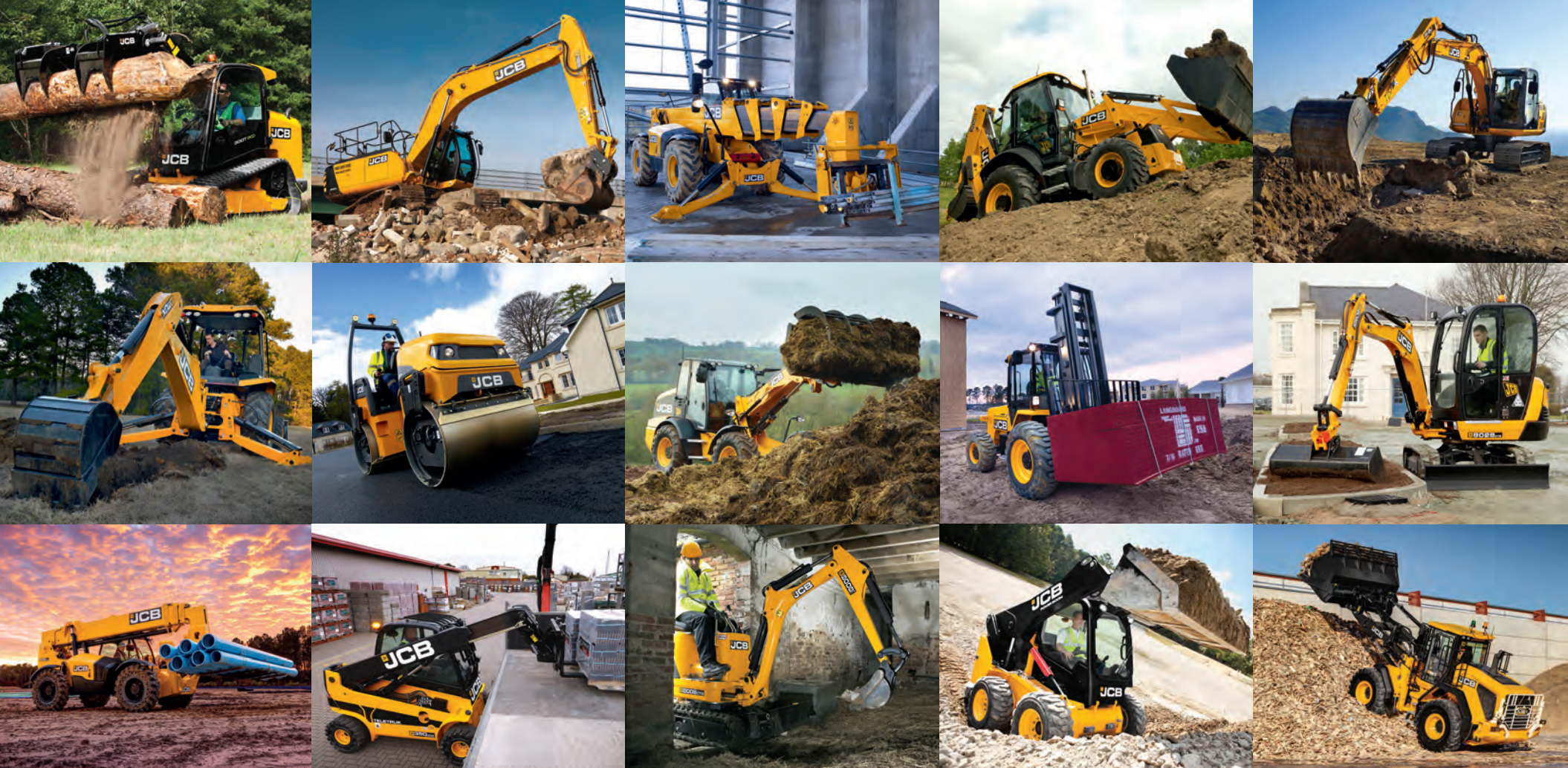
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