

# WHEELED LOADING SHOVEL | 457







# STRENGTH.

THE NEW JCB 457 HAS BEEN BUILT USING ONLY THE MOST ADVANCED PRODUCTION TECHNIQUES AND PREMIUM COMPONENTRY FOR SUPERIOR STRUCTURAL STRENGTH. IT'S BEEN TESTED TO THE LIMIT ON SITES ALL OVER THE WORLD TO MAKE SURE THAT, WHEREVER YOU'RE OPERATING, YOU'LL MAINTAIN TOTAL PRODUCTIVITY.

### Designed to work hard.

- 1 Your new JCB 457 will have benefitted from finite element analysis and rig testing of up to 1 million cycles to ensure superior structural strength and durability. For further peace of mind, cold cell testing guarantees starting performance down to -20°C.
- High tolerances and accurate location of pins and bushes are guaranteed with JCB's precision machining techniques.
- You can specify a 457 for heavy-duty applications like waste or corrosive material handling.
- A State-of-the-art manufacturing processes like robot machining, precision paint technology and innovative assembly techniques help to achieve the very highest levels of build quality.









### Protecting ancillaries.

■ A solid cast rear counterweight protects your 457's back end — including the rear lights and cooling pack — from damage.

### Well articulated.

- Hoses are neatly routed and clamped through the articulation joint, well away from any pinch points.
- The articulation joint has a heavy-duty centre pin and oversized bush, as well as twin taper roller bearings on the bottom box joints. This setup can tolerate both vertical and horizontal loadings for durability and rigidity.









# SPEED.

TIME IS OF THE ESSENCE ON ANY WORKSITE SO THE NEW JCB 457 IS DESIGNED TO PROVIDE THE FASTEST CYCLE TIMES IN THE BUSINESS. POWERFUL TWIN HYDRAULIC PUMPS, A LOAD SENSING VALVE BLOCK AND OPTIONAL 5-SPEED TRANSMISSION WITH TORQUE LOCK-UP PROVIDE SPEED, ACCURACY AND PRODUCTIVITY IN ABUNDANCE.

### Powering it all.

1 The MTU 6R1000 7.7-litre engine fitted to the new JCB 457 produces a substantial 193kW (258hp) of power, not to mention 1150Nm of torque (6% more than our outgoing model). What's more, it produces all of this at low revs for an incredibly responsive operating experience.

### Loading productivity.

- Powerful twin variable displacement piston pump hydraulics can circulate a massive 323 l/min for fast cycle times and excellent multifunctioning capability.
- Choose the optional JCB quickhitch and you'll find attachment changing is quick and efficient.
- Specify your perfect loader arm: Z-bar linkage (ZX) for high breakout applications or high torque (HT) for parallel lifting and multi attachment work.











### Loading productivity (continued).

- 5 High lift and super high lift options equip your 457 for applications involving high loading heights: hopper and lorry loading, for example.
- 6 With maximum breakout forces of 172kN, this wheel loader has the power to carry out extremely arduous loading jobs.

### **Drivetrain productivity**

- A smooth 4-speed transmission is fitted as standard, while an optional 5-speed unit makes operation even more slick, with closer gear ratios for improved acceleration, hill climbing and roading performance. The 5-speed gearbox also has torque convertor lock-up to eliminate losses, allowing faster cycle times and improved efficiency.
- E Tailor a 457 to any application with a range of axle options:
- > Open differentials are ideal for hard standing ground conditions.
- > A limited slip differential is perfect for soft, muddy terrain with reduced traction.
- Open differentials with an automatic locking front diff provide excellent traction in varied ground conditions.









# POWER.

POWER WITHOUT COMPROMISE HAS LONG BEEN THE RAISON D'ETRE OF ANY LARGE WHEELED LOADING SHOVEL, AND THE NEW JCB 457 TAKES THIS ETHOS TO ANOTHER LEVEL. ITS CUTTING EDGE TIER 4 FINAL/STAGE IV MTU ENGINE BOASTS POWER APLENTY, WHILE THE EFFICIENT, SMOOTH ZF DRIVELINE AND LOW FUEL CONSUMPTION HELP TO MAKE YOUR DECISION EVEN EASIER.

OVEL, ER NT, No DPF means unnecessary additional fuel piping is eliminated as is the potentially dangerous temperatures involved in regeneration. The fuel that would have been needed to restore your DPF can be used instead for actual productive work.

## **Driving efficiency.**

1 The new JCB 457's MTU engine offers you plenty of low-end torque and maintains it over a wide engine speed range. By using lightweight materials like cast aluminium and synthetics, you can also expect an excellent power-to-weight ratio.

To save on fuel, the engine idle shutdown feature can safely apply the brakes and turn your machine off after a programmable amount of time.

- A hydraulic cooling fan automatically reacts to ambient temperature and adjusts the 457's fan speed to optimise cooling and reduce fuel consumption. This also lowers noise on your site.
- Opt for the torque lock up 5-speed transmission and you'll get 100% efficiency in second to fifth gears, as well as closer gear ratios to keep engine speeds down. The end result is improved fuel economy.







### **Driving efficiency (continued).**

- Wheel speed braking means the brakes on the new 457 rotate at the same speed as the wheels for heat and drag reduction, as well as improved fuel economy.
- Unloaded spool valves in the valve block allow the arms to lower under gravitation – not hydraulic – force; this reduces fuel consumption still further.
- Patented JCB Smoothride load suspension limits shock loadings on your machine. Thus you enjoy reduced material spillage and structural stress, as well as increased operator comfort.
- A choice of 3 or 4-spool hydraulics gives you the scope for invaluable extra versatility.
- Selectable loader arm detents let operators control loader arm height limitations, return to dig settings and float functions, improving safety and productivity.











# COMMANDPLUS.

THE NEW 457 HERALDS THE DAWN OF A NEW ERA IN CAB DESIGN: JCB COMMAND PLUS. THIS UNIQUE APPROACH TO ERGONOMICS IS THE RESULT OF A RADICAL RETHINK AND A RIGOROUS RESEARCH PROGRAMME. EXPECT BEST-IN-CLASS COMFORT, VISIBILITY, ERGONOMICS AND QUIETNESS.

### See the difference.

- 1 You'll immediately notice the totally redesigned ROPS structure; this has allowed the A pillars to be moved to the same width as the rear of the cab, providing a larger interior with a superb panoramic front windscreen. All switches and auxiliary controls are now located on the right-hand A-pillar for easier access.
- Using the JCB 457's simple, dedicated menu interface is easily done with an intuitive optional rotary controller.
- Controlling the loader is now easier than ever all of the controls are seat-mounted, even going as far as to move with the seat suspension.

Select the control system that's best for your operators; we offer single lever joystick or multi-lever configurations, both fully electro-hydraulic.

There are two full colour LCD screens to navigate your 457's operating menus, with one doubling as a monitor for the rear view camera (optional).











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

- As standard, the new JCB 457 is equipped with heated external mirrors that can be electronically adjusted from inside the cab.
- An all-new air venting system boasts nine demisting vents and six operator vents to maintain visibility and operator comfort at all times. It also operates at a reduced noise level.
- After extensive research into operator ergonomics, we've devised the Command Driving Position, which boasts the very optimal control layout for a multitude of different driver shapes and sizes.
- A set and forget feature means that your preferred steering wheel position is stored and can be instantly returned to, even after you've folded the wheel away for easier operator access.
- Several seating options are available: there's a premium quality hard-wearing half leather seat, a heated seat or even a cooled one if you plan to operate your JCB 457 in warmer climates.

Air conditioning is a standard feature and there's also the option of 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.















# SERVICE.

MAXIMISING YOUR FLEET'S UPTIME IS OUR NUMBER ONE PRIORITY, AND WE'VE CERTAINLY PULLED OUT ALL THE STOPS ON THE NEW JCB 457. A UNIQUE ONE-PIECE **BONNET, EASY GROUND LEVEL ACCESS TO KEY COMPONENTS, LIVELINK TELEMATICS AND WORLD-CLASS AFTERCARE ALL COME AS STANDARD, WITH** TAILORED SERVICE PACKAGES AVAILABLE TO SUIT.

### Routine maintenance.

- 1 It's easy to get to the engine on a new JCB 457 with a large automatic opening single-piece bonnet.
- 2 Accessing the diesel and DEF (Diesel Exhaust Fluid) tanks is similarly straightforward via the lockable grille at the rear of the machine.

Full hydraulic dual circuit braking with multiple oil-immersed discs provides a virtually maintenancefree lifespan.

- Most Tier 4 Final Stage IV engines use a costly Diesel Particulate Filter (DPF) that can require replacement at the expense of both money and time. The MTU engine is DPF-free, thus reducing your servicing and running costs.
- 4 The standard cooling package is a large singlefaced unit so you can be assured of quick, easy and safe cleaning.











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### Less servicing, more service

- Intelligent electronic monitoring keeps you abreast of your 457's operating condition, providing real-time alerts that help to safeguard both the machine and its operator.
- You can check brake, steering and hydraulic system pressures easily courtesy of group test ports.

By using exclusively premium components (MTU engine, ZF transmissions and axles, Rexroth pumps and Parker valve blocks), we've built in long service life as standard.

The main fuse board and relays have been repositioned next to the door for easy access.

Select the widecore cooling pack and reversing fan option to ensure superior cooling efficiency in environments with large amounts of airborne debris.











# SAFETY.

OPERATORS, BYSTANDERS AND YOUR FLEET ARE WELL PROTECTED AT ALL TIMES BY THE NEW JCB 457. GREAT **VISIBILITY INSIDE AND OUT, NON-SLIP SURFACES AND EXCELLENT AIR FILTRATION IS JUST THE BEGINNING.** 

# Safely does it.

- 1 If you plan to use your wheeled loader for quarry work, it's worth specifying the dedicated quarry safety pack, which includes blue flashing reverse lights, a green operator presence beacon, a rear object detection system, and hi-viz exterior chevrons.
- 2 Access steps are inclined and equally spaced, complemented by well positioned grab handles for three points of contact at all times.
- On the new JCB 457, you'll find the rear-view mirrors mounted in front of the A-pillars for improved all-round visibility.

Interior mirrors, heated exterior mirrors and bonnet mirrors combine to offer excellent views to every corner of your machine.

- Our optional rearward camera displays an unobstructed view from the back of the machine.
- 5 Superb visibility in dark conditions is guaranteed with JCB's optional LED lighting.













### Safely does it (continued).

- G The new front fender flaps have been carefully designed and honed to keep forward spray to a minimum. This increases safety and decreases debris build-up.
- The new 457's cab is isolator-mounted, compliant with ROPS/FOPS standards, and positively pressurised against dust. You can choose from fresh air and carbon recirculation filters as well.
- Door hinges are now mounted on the B-pillar; this simple change has created much better access via a larger and wider door aperture. It also means you can access the rear of your loader more safely.
- ☐ Engines fitted with a DPF pose a greater fire risk because in regeneration mode, extreme heat can be created. The new 457 doesn't need a DPF, so this is no cause for concern.

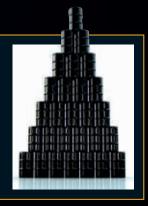


# LIVELINK, WORK SMARTER.

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

# **Productivity and cost benefits**

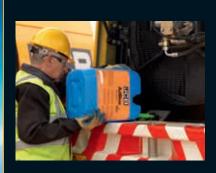
By providing information like idle time monitoring and machine fuel consumption, JCB Livelink helps reduce your fuel usage, saving money and improving productivity. Machine location information can help improve efficiency and perhaps even reduce insurance costs.





### **Maintenance benefits**

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





### **Security benefits**

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



# A GREAT BUSINESS DECISION.

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

### **Machine selection**

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

### **Rebuild and Refurbishment Programme**

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

### **Technical support**

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

### **Component monitoring**

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

### **Service support**

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

### **Finance and Insurance**

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

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



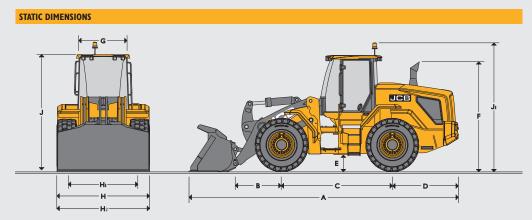












|    |   |     | 457 HT | 457 HT SHL | 457 ZX | 457 ZX HL |
|----|---|-----|--------|------------|--------|-----------|
| Α  | Overall length                          | mm  | 8521   | 9451       | 7961   | 8521      |
| В  | Axle to pivot pin                       | mm  | 1713   | 2727       | 1622   | 2182      |
| С  | Wheel base                              | mm  | 3300   | 3300       | 3300   | 3300      |
| D  | Axle to counterweight face              | mm  | 1971   | 1971       | 1971   | 1971      |
| Е  | Minimum ground clearance                | mm  | 473    | 473        | 473    | 473       |
| F  | Height over exhaust                     | mm  | 3224   | 3224       | 3224   | 3224      |
| G  | Width over cab roof                     | mm  | 1600   | 1600       | 1600   | 1600      |
| Н  | Max width over tyres                    | mm  | 2699   | 2699       | 2699   | 2699      |
| ΗΙ | Wheel track                             | mm  | 2100   | 2100       | 2100   | 2100      |
| H2 | Max width over fenders                  | mm  | 2735   | 2735       | 2735   | 2735      |
| J  | Height over cab roof and lowered beacon | mm  | 3433   | 3433       | 3433   | 3433      |
| JI | Height over raised beacon               | mm  | 3793   | 3793       | 3793   | 3793      |
|    | Front axle weight                       | kg  | 8841   | 10765      | 8858   | 9426      |
|    | Rear axle weight                        | kg  | 11693  | 10678      | 10916  | 10683     |
|    | Total weight                            | kg  | 20534  | 21443      | 19774  | 20109     |
|    | Inside turn radius                      | mm  | 3183   | 3183       | 3183   | 3183      |
|    | Maximum turn radius over shovel         | mm  | 6630   | 7121       | 6554   | 6770      |
|    | Maximum turn radius over tyre           | mm  | 5883   | 5883       | 5883   | 5883      |
|    | Articulation angle                      | deg | +/-40  | +/-40      | +/-40  | +/-40     |

Data based on machine equipped with direct mounted 3.1 m³ bucket with toe plates and bolt on teeth and 23.5- 25 R25 BKT L3.

| TRANSMISSIO | N   |                |                 |   |                  |                              |         |  |  |
|-------------|-----|----------------|-----------------|---|------------------|------------------------------|---------|--|--|
|             |     | 4 speed non-lo | ck up converter | 5 speed with lock up converter (optional) |                  |                              |         |  |  |
| Туре        |     | Z              | ZF .            |   | ZF               |                              |         |  |  |
| Model       |     | 4W0            | G210            | 5WG210 with lo                            | ck-up (unlocked) | 5WG210 with lock-up (locked) |         |  |  |
|             |     | Forward        | Reverse         | Forward                                   | Reverse          | Forward                      | Reverse |  |  |
| 1           | kph | 6.0            | 6.4             | 6.2                                       | 6.6              | 6.2                          | 6.6     |  |  |
| 2           | kph | 11.8           | 12.5            | 11.1                                      | 11.6             | 11.2                         | 11.8    |  |  |
| 3           | kph | 22.4           | 23.5            | 16.8                                      | 26.7             | 17.2                         | 28.0    |  |  |
| 4           | kph | 36.1           |                 | 25.5                                      |                  | 26.6                         |         |  |  |
| 5           | kph |                |                 | 37.6                                      |                  | 40.5                         |         |  |  |

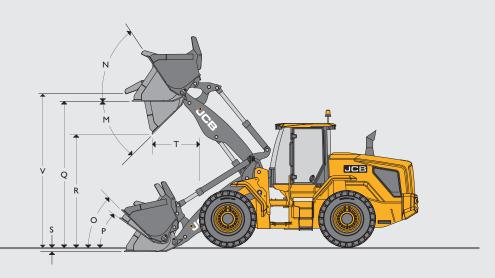
| ENGINE                                 |                     |  |
|--|---------------------|--|
| Туре                                   |                     | MTU  |
| Model                                  |                     | 6R1000   |
| Capacity                               | litres              | 7.7  |
| Aspiration                             |                     | Turbocharger   |
| Cylinders                              |                     | 6  |
| Max gross power to SAE J1995/ISO 14396 | kW (hp) @ 1600rpm   | 193 (258)  |
| Nett power to ISO 9249                 | kW (hp) @ 1600rpm   | 191 (256)  |
| Max torque                             | Nm @ 1200 – 1600rpm | I I 50Nm (848lb-ft)                                  |
| Valves per cylinder                    |                     | 4  |
| Air cleaner                            |                     | Intergrated pre-cleaner, scavenged                   |
| Fan drive type                         |                     | Hydraulic  |
| Emissions                              |                     | EPA 40 CFR 89 / Tier 4 Final<br>EU 97/68/EC/STAGE IV |

| AXLES                 |                                    |                                    |   |
|-----------------------|------------------------------------|------------------------------------|---|
| Туре                  | Open differential                  | Limited slip differential          | Open differential with auto-locking front |
| Make and model        | ZF MT-L 3095 MK 2 (front and rear) | ZF MT-L 3095 MK 2 (front and rear) | ZF MT-L 3095 MK 2 (front and rear)        |
| Overall axle ratio    | 23.334:1                           | 23.334:1                           | 23.334:1                                  |
| Rear axle oscillation | +/-11.5                            | +/-11.5                            | +/-11.5                                   |
| Bias Ratio            | 12%                                | 30%                                | 100% (when locked)                        |

| ELECTRICAL SYSTEM |          |         |
|-------------------|----------|---------|
| System voltage    | Amps     | 24      |
| Alternator output | Amps     | 100     |
| Battery capacity  | Amp hour | 2 × 110 |

| HYDRAULICS                           |         |                       |
|--------------------------------------|---------|-----------------------|
| Pump type                            |         | Variable displacement |
| Pump I max. flow                     | I/min   | 153                   |
| Pump I max. pressure                 | bar     | 220                   |
| Pump 2 max. flow                     | l/min   | 153                   |
| Pump 2 max. pressure                 | bar     | 170                   |
| Hydraulic cycle times at full engine |         |                       |
| Arms raise (full bucket)             | Seconds | 5.8                   |
| Shovel dump (full bucket)            | Seconds | 1.2                   |
| Arms lower (empty bucket)            | Seconds | 4.1                   |
| Total cycle                          | Seconds | 11.1                  |

| 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. Parking brake, electro-hydraulic disc type operating on transmission output shaft. |



| TYRE SIZE                |               |                    |        |              |            |            |           |            |                |             |
|--------------------------|---------------|--------------------|--------|--------------|------------|------------|-----------|------------|----------------|-------------|
|                          | HT            |                    | HT SHL |              | Dimensions |            |           |            |                |             |
| Tyre size                | Manufacturer  | Туре               | Rating | Op weight kg | STL<br>kg  | FTTL<br>kg | STL<br>kg | FTTL<br>kg | Vertical<br>mm | Width<br>mm |
| 23.5R25 (radial)         | Michelin      | XTLA               | L2     | -12          | -8         | -7         | -6        | -5         | -2             | -3          |
| 650/65R25 (radial)       | Michelin      | XLD                | L3     | -92          | -63        | -55        | -47       | -41        | -56            | 35          |
| 23.5R25 (radial)         | Goodyear      | TL-3A+             | L3     | 324          | 221        | 195        | 164       | 145        | 16             | 16          |
| 23.5R25 (radial)         | Goodyear      | RT-3B              | L3     | 176          | 120        | 106        | 89        | 79         | 12             | 41          |
| 23.5R25 (Crossply)       | Goodyear      | HRL-3A (20PLY)     | L3     | -100         | -68        | -60        | -50       | -45        | 24             | 23          |
| 23.5R25 (Crossply)       | JCB           | SITEMASTER (24PLY) | L3     | -92          | -63        | -56        | -47       | -41        | 6              | 1           |
| 23.5R25 (radial)         | JCB           | EARTHMOVER         | L3     | 160          | 109        | 96         | 81        | 72         | 1              | 6           |
| 23.5R25 (radial)         | Michelin      | XLDD2A             | L5     | 548          | 374        | 330        | 278       | 246        | 27             | 13          |
| 23.5R25 (radial)         | Michelin      | XMINED2            | L5     | 828          | 565        | 499        | 421       | 371        | 37             | 38          |
| 23.5R25 (radial)         | Goodyear      | RL-5K              | L5     | 792          | 540        | 477        | 402       | 355        | 9              | 24          |
| 23.5-25 (solid cushion)* | SG Revolution | S2 C2 DWL          | -      | 3124         | 2130       | 1881       | 1586      | 1400       | 51             | -24         |
| Heavy-duty counterweight | -             | -                  | -      | 774          | 1512       | 1281       | 1126      | 954        | 0              | 0           |

<sup>\*</sup>Heavy duty counterweight replaced by standard counterweight when solid tyres are fitted

### LOADER DIMENSIONS Assumes machine is fitted with Michelin 23.5R25 XHA2 (L3) tyres and heavy duty counterweight. Model 457 HT 457 HT SHL Shovel mounting Direct Quickhitch Direct Quickhitch Shovel type General purpose General purpose General purpose General purpose Tipped teeth and Tipped teeth and Tipped teeth and Tipped teeth and Shovel equipment Tipped teeth Reversible toeplate Reversible toeplate Reversible toeplate Reversible toeplate Tipped teeth Tipped teeth Tipped teeth toeplate segments toeplate segments toeplate segments toeplate segments 3.5 Shovel capacity (SAE heaped) 3.3 3.5 3.3 3.3 3.5 3.3 3.5 2.8 3.3 3.3 3.5 3.3 3.1 3.3 3.3 3.5 3.3 3.5 Shovel capacity (struck) 2.497 2.687 2.648 2.844 2.648 2.844 2.497 2.687 2.648 2.844 2.648 2.844 2.210 2.497 2.687 2.648 2.844 2.844 2.497 2.687 2.648 2.844 2.648 2.844 Shovel width mm Shovel weight kg Maximum material density \* kg/m<sup>3</sup> Tipping load straight \* kg 15925 Tipping load full turn \* kg 13438 Payload \* kg Maximum breakout force kΝ Dump angle maximum degrees N Roll back angle full height degrees Roll back at carry degrees Roll back at ground level degrees Load over height 403 I 403 I 403 I 403 I mm Dump height (45 deg dump) mm S Dig depth mm T Reach at dump height mm V Pin height Reach maximum (45 deg dump) horizontal arm mm 2303 Operating weight (includes 75kg operator and 20572 20989 21061 21107 21171 21217 21209 21255 full fuel and DEF tanks)

LOADER DIMENSIONS

Shovel width

Shovel weight

Maximum material density \*

Payload \*

S

Tipping load straight \*

Tipping load full turn \*

Dump angle maximum

Roll back at ground level

Dump height (45 deg dump)

Reach maximum (45 deg dump) horizontal arm

Operating weight (includes 75kg operator and

N Roll back angle full height

Roll back at carry

Load over height

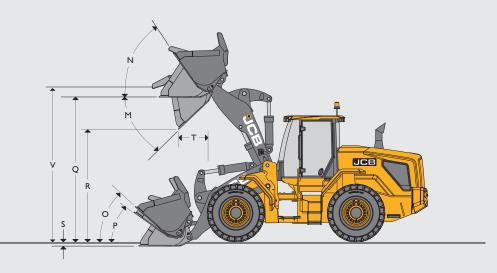
T Reach at dump height

full fuel and DEF tanks)

Dig depth

Pin height

Maximum breakout force



mm 2140

kg 19621

kg 1613

kg

kg

kN 172

degrees

degrees

mm 3802

mm

kg/m³

19774 19769 19812 19984 20029 20094

| TYRE SIZE                |               |                    |        |              |            |            |           |            |                |             |
|--------------------------|---------------|--------------------|--------|--------------|------------|------------|-----------|------------|----------------|-------------|
|                          | ZX            |                    | ZX HL  |              | Dimensions |            |           |            |                |             |
| Tyre size                | Manufacturer  | Туре               | Rating | Op weight kg | STL<br>kg  | FTTL<br>kg | STL<br>kg | FTTL<br>kg | Vertical<br>mm | Width<br>mm |
| 23.5R25 (radial)         | Michelin      | XTLA               | L2     | -12          | -9         | -8         | -7        | -6         | -2             | -3          |
| 650/65R25 (radial)       | Michelin      | XLD                | L3     | -92          | -72        | -63        | -57       | -50        | -56            | 35          |
| 23.5R25 (radial)         | Goodyear      | TL-3A+             | L3     | 324          | 254        | 224        | 200       | 177        | 16             | 16          |
| 23.5R25 (radial)         | Goodyear      | RT-3B              | L3     | 176          | 138        | 122        | 109       | 96         | 12             | 41          |
| 23.5R25 (Crossply)       | Goodyear      | HRL-3A (20PLY)     | L3     | -100         | -78        | -69        | -62       | -54        | 24             | 23          |
| 23.5R25 (Crossply)       | JCB           | SITEMASTER (24PLY) | L3     | -92          | -72        | -64        | -57       | -50        | 6              | 1           |
| 23.5R25 (radial)         | JCB           | EARTHMOVER         | L3     | 160          | 125        | 111        | 99        | 87         | - 1            | 6           |
| 23.5R25 (radial)         | Michelin      | XLDD2A             | L5     | 548          | 430        | 380        | 339       | 300        | 27             | 13          |
| 23.5R25 (radial)         | Michelin      | XMINED2            | L5     | 828          | 650        | 574        | 513       | 453        | 37             | 38          |
| 23.5R25 (radial)         | Goodyear      | RL-5K              | L5     | 792          | 621        | 549        | 490       | 433        | 9              | 24          |
| 23.5-25 (solid cushion)* | SG Revolution | S2 C2 DWL          | -      | 3124         | 2451       | 2164       | 1934      | 1707       | 51             | -24         |
| Heavy duty counterweight | -             | -                  | -      | 774          | 1740       | 1474       | 1373      | 1163       | 0              | 0           |

20109 20104

20147 20319 20364

Tipped teeth and

toeplate segments

3.3

2.648

20474 20467 20512

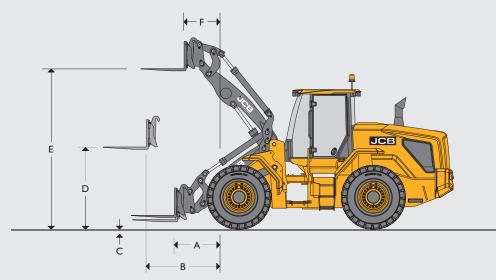
3.5

2.844

### Assumes machine is fitted with Michelin 23.5R25 XHA2 (L3) tyres and heavy duty counterweight. 457 ZX HL Model 457 ZX Quickhitch Direct Quickhitch Direct Shovel mounting General purpose General purpose General purpose Shovel type General purpose Tipped teeth and Tipped teeth and Tipped teeth and Reversible toeplate Reversible toeplate Shovel equipment Tipped teeth Reversible toeplate Tipped teeth Tipped teeth Tipped teeth Reversible toeplate toeplate segments toeplate segments toeplate segments 3.5 3.1 3.5 3.1 Shovel capacity (SAE heaped) m<sup>3</sup> 3.1 3.3 3.3 3.5 3.3 3.3 3.3 3.5 3.3 3.5 2.8 3.1 3.3 3.3 3.5 3.3 3.3 3.3 3.5 2.791 2.791 2.991 2.933 3.137 2.933 3.137 2.497 2.687 2.844 2.648 2.497 2.991 2.933 3.137 2.933 3.137 2.497 2.687 2.648 2.844 Shovel capacity (struck) $m^3$ 2.648 2.844

20139 20132 20177 19883

<sup>\*</sup>Heavy duty counterweight replaced by standard counterweight when solid tyres are fitted



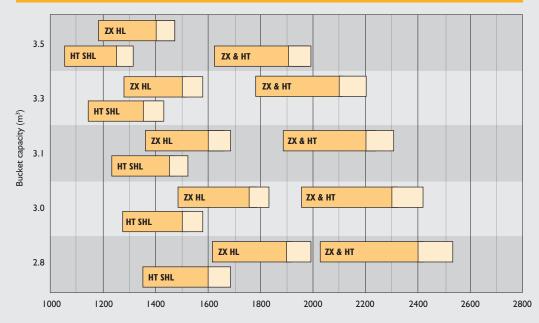
|   |   |    | 457 LIT | 457 LIT CLU | 457.7\/ | 457 7V CLU |
|---|---|----|---------|-------------|---------|------------|
|   |   |    | 457 HT  | 457 HT SHL  | 457 ZX  | 457 ZX SHL |
|   | Fork carriage width   | mm | 1500    | 1500        | 1500    | 1500       |
|   | Length of tines   | mm | 1220    | 1220        | 1220    | 1220       |
| Α | Reach at ground level   | mm | 1173    | 2140        | 978     | 1550       |
| В | Reach at arms horizontal  | mm | 1848    | 2648        | 1698    | 2175       |
| С | Top of tine above ground with arms down                               | mm | 35      | 35          | 35      | -9         |
| D | Arms, horizontal height   | mm | 1935    | 1935        | 1935    | 1935       |
| Е | Arms, maximum height  | mm | 4154    | 5120        | 3957    | 4528       |
| F | Reach at maximum height   | mm | 871     | 929         | 860     | 938        |
|   | Tipping load straight   | kg | 12225   | 9045        | 11392   | 9557       |
|   | Tipping load full turn (40°)  | kg | 10375   | 7385        | 9647    | 8044       |
|   | Payload*  | kg | 8000    | 5908        | 7717    | 6435       |
|   | Attachment weight   | kg | 610     | 610         | 610     | 610        |
|   | Operating weight (includes 75kg operator and full fuel and DEF tanks) | kg | 19563   | 20472       | 19168   | 19503      |

 $<sup>\</sup>ast$  At the centre of gravity distance 600mm. Based on 80% of FTTL as defined in ISO 8313.

| SERVICE FILL CAPACITIES     |        |                              |
|-----------------------------|--------|------------------------------|
| Hydraulic system            | litres | 240                          |
| Hydraulic tank              | litres | 135                          |
| Fuel tank                   | litres | 300                          |
| Engine oil including filter | litres | 25                           |
| Transmission oil system     | litres | 41 (45 with open diff axles) |
| Axle oil (front)            | litres | 35                           |
| Axle oil (rear)             | litres | 35                           |
| Engine coolant system       | litres | 42                           |
| DEF tank                    | litres | 42                           |

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

### **BUCKET CAPACITIES**



Material density (kg/m³)

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



| SENTICE AND PAINTENANCE   ELECTRICAL (CONTINUED)   PAIR AND STATION (CONTINUED)  | +<br>+<br>+<br>+<br>+<br>•<br>•<br>•<br>•<br>•<br>• |
|--|---|
| Engine ail remote drain and fill  Vork lights in rear grille  Formet operation alarm  Bornet record of the development | +   |
| Bornet operation altern   Bornet operation operation altern   Bornet operation operati   | +   |
| Ludrication points accessible from ground level  DRIVE TRAIN  FROMINE  Air cleaner - cyclonic pre filter with engine fan scavenge system  Automatically revening cooling fan  Fipicyclical wheel hub reduction  Fixed front axie  Electrical opening rear bonnet  Electrical opening rear bonnet  Expert with water trap  Fixed monted fin  Cycloper filter with vater trap  Fixed monted fin  Cycloper filter with vater trap  Fixed monted fin  Fixed monted fin  Cycloper filter with vater trap  Fixed monted fin  Fixed monted fine  Fixed monted fixed fi | +   |
| Lubrication points accessible from ground level   PROFESTORY TRAIN   Reversing camera (colcur)   | +   |
| PRIVETEAN   Speed transmission   Speed transmission   Speed transmission   Speed transmission   Speed transmission   Speed transmission with lock-up torque converter   PROPS-FOTS assist syntruture   | +<br>+<br>•<br>•<br>•<br>+<br>•                     |
| A speed transmission   Fold away adjustable steering column  | + • • • + •   |
| Air deaner – cyclonic pre filter with engine fan scavenge system  + Speed transmission with lock-up torque converter  + ROPS/FOPS safety structure  Automatically reversing cooling fan  + Epicyclical wheel hub reduction  - Front primary display screen  DEF fluid  - Gear kick down on loader control lever  - Gear kick down on loader control lever  - Secondary. A post display screen, rotary control menu interface  Electrical opening rear bonnet  - Indicator gass for transmission oil level  - A post mounted membrane switches  - Epoxy coated radiator / coolers  - Huitled slip differentials front and rear  | +   |
| Automatically reversing cooling fan  + Epicyclical wheel hub reduction  • Interior light  Crankcase breather oil trap  • Fixed front able  Bettrical opening rear bonnet  • Indicator glass for transmission oil level  • Secondary A post display screen, rotary control menu interface  Epoxy coated radiator / coolers  + Limited slip differentials front and rear  + Variable fan speed control on climatic control system  Fixed mounted fan  • Loader lever direction control  • So mm seat belt  Fuel filter  • Neutral start  Fuel pre-filter with water trap  • Open differential  • Open differential with automatic locking -100% (front axle only)  + Two speed intermittent front windscreen wipe/wash and self-park  20° cold start  • Power-inch intelligent clutch cut off on footbrake (selectable)  Swing out fan  + Speed limiter 20km/h  + Speed limiter 20km/h  - Steering column single lever shift control (direction and gear)  * Steering column single lever shift control (direction and gear)  * Steering column single lever shift control (direction and gear)  * Steering column single lever shift control (direction and gear)  * Steering column single lever shift control (direction and gear)  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering wheel spinner knob  Internal rear view mirror  * Steering disc brake so  * Multi-media port (USB and 3.5mm)  * Operator stowage  * Laminated windscreen  * Heated mirrors  * Marke globed brake on transmission  | +   |
| Fixed front axide  Fixed front primary display screen  Gear kick down on loader control lever  Indicator glass for transmission oil lever  Indicator glass for transmission on lever  Indicator glass for transmission plever  Indicator glass for transmission glass general part control of manual rear  Indicator glass for transmission on lever  Indicator glass for transmission part glass general glass general part glass general glass general part glass general par | +   |
| DEF fluid   • Gear kick down on loader control lever   • Secondary A post display screen, rotary control menu interface   Electrical opening rear bonnet   • Indicator glass for transmission oil level   • A post mounted membrane switches   Epoxy coated radiator / coolers   + Limited slip differentials frant near   + Variable fain speed control on climatic control system   Fixed mounted fain   • Loader lever direction control   • 50 mm seat belt   Fixed flitter   • Neutral start   • 75 mm seat belt   Fixed products   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen wipe/wash and self-park   -20° cold start   • Open differential with automatic locking -100% (front axle only)   + Two speed intermittent front windscreen   -20° cold start   -   | •<br>+<br>•<br>+                                    |
| Electrical opening rear bonnet   Indicator glass for transmission oil level   A post mounted membrane switches   | +             |
| Epoxy coated radiator / coolers  | +   |
| Fixed mounted fan  Loader lever direction control  Neutral start  Neutral start  Puel pre-filter with water trap  Open differential  Open differential with automatic locking - 100% (front axle only)  To speed intermittent front windscreen wipe/wash and self-park  Single speed rear windscreen wipe/wash and self-park  Single speed rear windscreen wipe/wash and self-park  Solicy speed rear w | +   |
| Fuel filter  Puel pre-filter with water trap  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic locking -100% (front axle only)  Puel pre-filter with automatic power shift control (direction and gear)  Puel pre-filter with automatic power shift control (direction and gear)  Puel pre-filter with automatic power shift control (directi | •   |
| Fuel pre-filter with water trap  Hydraulically driven cooling fan  Open differential  Open differential with automatic locking - 100% (front axle only)  Two speed intermittent front windscreen wipe/wash and self-park  Single speed rear windscreen wipe/wash and self-park  -20° cold start  Power-inch intelligent dutch cut off on footbrake (selectable)  Selectable automatic power shift  Selectable automatic power shift  Speed limiter 20km/h  House gated turbo  Widecore radiator  Fire extinguisher (UK only)  Two speed intermittent front windscreen wipe/wash and self-park  Speed rear windscreen wipe/wash and self-park  Selectable automatic power shift  Selectable automatic power shift  Speed limiter 20km/h  House gated turbo  Steering column single lever shift control (direction and gear)  Widecore radiator  Fire extinguisher (UK only)  Two speed intermittent front windscreen wipe/wash and self-park  Speed rear windscreen wipe/wash and self-park  Selectable automatic power shift  Fire axtinguisher (UK only)  Two speed intermittent front windscreen wipe/wash and self-park  Single speed rear windscreen wipe/wash and s |   |
| Hydraulically driven cooling fan  Open differential with automatic locking -100% (front axle only)  Hydraulically driven cooling fan  Open differential with automatic locking -100% (front axle only)  Oscillating rear axle  Oscillating rear axle  Oscillating rear axle  Nower-inch intelligent clutch cut off on footbrake (selectable)  Selectable automatic power shift  Lh and Rh sliding opening windows  Swing out fan  Speed limiter 20km/h  Hoor mat  Vaste gated turbo  Steering column single lever shift control (direction and gear)  Transmission cooler bypass  Hoo amp alternator  ELECTRICAL  100 amp alternator  Amber rotating beacon  Electrical adjustable mirrors  Dual circuit hydraulic power  Heated mirrors  External battery isolator  Popen differential with automatic locking -100% (front axle only)  Two speed intermittent front windscreen wipe/wash and self-park  Single speed rear windscreen wipe/wash and self-park  Chan Rh sliding opening windows  Land Rh sliding opening windows  Lh and Rh sliding opening windows  Lh a | +   |
| Manual override rear bonnet opening  Oscillating rear axle  Power-inch intelligent clutch cut off on footbrake (selectable)  Single speed rear windscreen wipe/wash and self-park  Power-inch intelligent clutch cut off on footbrake (selectable)  Selectable automatic power shift  Lh and Rh sliding opening windows  Lam and Rh sliding opening windows  Lam and Rh sliding opening windows  Lam and Rh sliding opening windows  Lh and Rh slidi | +   |
| -20° cold start  SCR engine emission control  Selectable automatic power shift  Speed limiter 20km/h  H Speed limiter 20km/h  Waste gated turbo  Widecore radiator  H Transmission cooler bypass  H Steering column single lever shift control (direction and gear)  Transmission cooler bypass  H Steering wheel spinner knob Internal rear view mirror  ELECTRICAL  BRAKE SYSTEM  Tinted cab glass  100 amp alternator  Amber rotating beacon  Electrical adjustable mirrors  Electrical adjustable mirrors  Heated mirrors  Wheel speed braking  External battery isolator  Power-inch intelligent clutch cut off on footbrake (selectable)  Lh and Rh sliding opening windows  Land Rh sliding opening windows  Land Rh sliding opening windows  Land Rh sliding opening windows  Lind Rh slid | •   |
| SCR engine emission control  ScR engine emission control  ScR engine emission control  Swing out fan  Waste gated turbo  Videcore radiator  Transmission cooler bypass  + Steering column single lever shift control (direction and gear)  Transmission cooler bypass  + Steering wheel spinner knob Internal rear view mirror  ELECTRICAL  BRAKE SYSTEM  Tinted cab glass  100 amp alternator  Amber rotating beacon  Electrical adjustable mirrors  Electrical adjustable mirrors  Heated mirrors  Wheel speed braking  External battery isolator  • Parking disc brake on transmission output shaft  • Lh and Rh sliding opening windows  Liand Rh sliding Parket Research  Liand Rh sliding Parket Research  Liand Rh sliding Parket Research  Liand Rh sliding  | •   |
| Swing out fan + Speed limiter 20km/h + Floor mat  Waste gated turbo • Steering column single lever shift control (direction and gear) • Cup holder  Widecore radiator + Transmission cooler bypass + Steering wheel spinner knob Internal rear view mirror  ELECTRICAL  BRAKE SYSTEM  Multi-plate wet disc brakes  100 amp alternator • Multi-plate wet disc brakes  Amber rotating beacon • Sintered brake pads Electrical adjustable mirrors  Electrical adjustable mirrors  • Dual circuit hydraulic power  Heated mirrors  • Wheel speed braking  External battery isolator  • Parking disc brake on transmission output shaft  • Loader control isolator  | •   |
| Waste gated turbo       • Steering column single lever shift control (direction and gear)       • Cup holder         Widecore radiator       + Internal rear view mirror         ELECTRICAL         100 amp alternator       • Multi-plate wet disc brakes       • Multi-media port (USB and 3.5mm)         Amber rotating beacon       • Sintered brake pads       • Operator stowage         Electrical adjustable mirrors       • Dual circuit hydraulic power       • Laminated windscreen         Heated mirrors       • Wheel speed braking       • Heated rear screen         External battery isolator       • Parking disc brake on transmission output shaft       • Loader control isolator   | •   |
| Widecore radiator + Transmission cooler bypass + Steering wheel spinner knob Internal rear view mirror  FLECTRICAL  100 amp alternator • Multi-plate wet disc brakes • Multi-media port (USB and 3.5mm)  Amber rotating beacon • Sintered brake pads • Operator stowage  Electrical adjustable mirrors • Dual circuit hydraulic power • Laminated windscreen  Heated mirrors • Wheel speed braking • Heated rear screen  External battery isolator • Parking disc brake on transmission output shaft • Loader control isolator   | •   |
| Internal rear view mirror  | •   |
| ELECTRICALBRAKE SYSTEMTinted cab glass100 amp alternator• Multi-plate wet disc brakes• Multi-media port (USB and 3.5mm)Amber rotating beacon• Sintered brake pads• Operator stowageElectrical adjustable mirrors• Dual circuit hydraulic power• Laminated windscreenHeated mirrors• Wheel speed braking• Heated rear screenExternal battery isolator• Parking disc brake on transmission output shaft• Loader control isolator   | •   |
| 100 amp alternator       • Multi-plate wet disc brakes       • Multi-media port (USB and 3.5mm)         Amber rotating beacon       • Sintered brake pads       • Operator stowage         Electrical adjustable mirrors       • Dual circuit hydraulic power       • Laminated windscreen         Heated mirrors       • Wheel speed braking       • Heated rear screen         External battery isolator       • Parking disc brake on transmission output shaft       • Loader control isolator   | •   |
| Amber rotating beacon  • Sintered brake pads  • Operator stowage  Electrical adjustable mirrors  • Dual circuit hydraulic power  • Laminated windscreen  Heated mirrors  • Wheel speed braking  External battery isolator  • Parking disc brake on transmission output shaft  • Loader control isolator  | •   |
| Electrical adjustable mirrors  • Dual circuit hydraulic power  • Laminated windscreen  Heated mirrors  • Wheel speed braking • Wheel speed braking  External battery isolator  • Parking disc brake on transmission output shaft • Loader control isolator   | +   |
| Heated mirrors  • Wheel speed braking  External battery isolator  • Wheel speed braking  • Parking disc brake on transmission output shaft  • Loader control isolator  | •   |
| External battery isolator   • Parking disc brake on transmission output shaft  • Loader control isolator   | •   |
|  | •   |
| Fold down beacon arm  • Flectrical hydraulic park brake actuation  • Hom   | •   |
|  | •   |
| Green seat belt beacon + Adjustable armrest  | •   |
| Halogen front and rear working lights   • OPERATOR STATION  Removable storage rubber mats  | •   |
| Hazard warning lights  • Fully glazed cab  • Convex mirror kit (1 on each side)  | +   |
| Integrated rear view camera + Front low windscreen guards + Adjustable seat mounted controls   | •   |
| LED front and rear working lights + Air conditioning •   |   |
| Number plate light kit + Climate control + FRONT PRIMARY DISPLAY   |   |
| Parking lights  • Single lever joystick  • Warning lights  |   |
| Radio wiring and speakers   Multi-lever hydraulic controls   H Direction indicators  | •   |
| Rear fog light   • Proportional electro hydraulic auxiliary control   + Master warning   | •   |
| Reverse alarm and light  • Air suspension cloth seat  • High coolant temperature   | •   |
| Smart reverse alarm and light + Deluxe heated air suspension cloth seat + Battery charging condition   | •   |
| Turn signals  • Super deluxe heated and cooled air suspension half leather seat + Low fuel level   | •   |
| Front roller blind  • Engine oil pressure  | •   |
| Rear roller blind + Hazard lamps   |   |

| EQUIPMENT (CONTINUED)                   |   |   |   |   |   |
|---|---|---|---|---|---|
| FRONT PRIMARY DISPLAY                   |   | FRONT PRIMARY DISPLAY (CONTINUED)           |   | HYDRAULIC SYSTEM (CONTINUED)  |   |
| Warning lights (continued)              |   | Data screens (continued)                    |   | Electronic hydraulic isolation  | • |
| Park brake state                        | • | Instantaneous fuel use                      | • | Automatic boom kick-out. Detent   | • |
| Road lights                             | • | Average fuel use (resettable)               | • | Automatic bucket positioner   | • |
| Main beam lights                        | • | Current date                                | • | Front loader float  | • |
| Rear fog lights                         | • | Machine hours                               | • | Indicator glass for hydraulic oil level                                   | • |
| Engine pre-heat                         | • | Trip distance (resettable)                  | • | Hydraulic oil cooler  | • |
| Brake system pressure                   | • | Hours to Service                            | • |   |   |
| Differential lock                       | • | Daily checks                                |   | EXTERNAL EQUIPMENT  |   |
| Low steering pressure                   | • | Engine oil level                            | • | Front and rear fenders  | • |
| Buzzer alerts                           |   | DEF level                                   | • | Full rear fenders   | + |
| Engine air filter blocked               | • |   |   | Front adjustable mud flaps  | • |
| Diesel exhaust fluid (DEF)              | • | RIGHT HAND SECONDARY DISPLAY (OPTIONAL)     |   | Front wheel spray guards  | • |
| Torque reduction in case of malfunction | • | Clock                                       | • | Rear fender chevrons  | • |
| Amber warning lamp                      | • | Climate control                             | • | Full tyre coverage fenders  | • |
| Stop engine                             | • | Fan speed                                   | • | Automatic greasing system   | + |
| Gauge display                           |   | In cab temperature set                      | • | Grease gun and cartridge  | + |
| Engine speed                            | • | Machine hours                               | • | One piece electrical opening bonnet                                       | • |
| Coolant temperature                     | • | Rear view camera                            | • | Mesh air intake screens   | • |
| Fuel level                              | • | Fuel use                                    | • | Flexible bottom step  | • |
| LCD screen display                      |   | Time and date                               | • | Full width rear counterweight   | • |
| Current gear                            | • | Auxiliary flow rate                         | + | Recovery hitch  | • |
| Stop engine                             | • | Hydraulic oil temperature                   | • | Lifting / tie down lugs   | • |
| Torque reduction in case of malfunction | • | Transmission oil temperature                | • | Rear counterweight chevrons   | + |
| Amber warning lamp                      | • | Machine settings screen                     |   | Additional rear counterweight (+774kg)                                    | + |
| Diesel exhaust fluid (DEF)              | • | Coolant temperature                         | • |   |   |
| Engine air filter blocked               | • | Engine oil pressure                         | • | PROTECTIVE EQUIPMENT  |   |
| Secondary steer system pressure         | • | Air filter                                  | • | Front cab screen guards   | + |
| Torque lockup                           | • | Transmission sump temperature               | • | Wastemaster package: includes front and rear light guards, front screen   |   |
| Steer mode                              | • | Transmission torque convertor temperature   | • | guard, front and rear belly guards, rear light guards, widecore radiator, | + |
| Ground speed                            | • | Hydraulic oil temperature                   | • | Wastemaster decal.  |   |
| Engine Speed (numeric display)          | • | Park brake pressure                         | • | Rear grille guard   | + |
| Clock                                   | • | Battery voltage                             | • | Fire system   | + |
| Hydraulic state                         | • | Help display                                | • | Safety strut loader arm   | • |
| Smoothride system (SRS)                 | + | On-screen Handbook                          | • | Light guards  | + |
| Beacon                                  | • |   |   | Front belly guard kits  | + |
| Front work lamps                        | • | HYDRAULIC SYSTEM                            |   | Rear belly guard kits   | + |
| Rear work lamps                         | • | Smoothride system (SRS)                     | + | Articulation joint safety strut   | • |
| Heated rear screen                      | • | Hydraulic quick hitch with in cab isolation | + | Front rubber apron mat  | + |
| Transmission sump temperature           | • | Auxiliary ARV kit                           | + |   |   |
| Data screens                            |   | Auxiliary hydraulic service                 | + | OTHER EQUIPMENT   |   |
| DEF level                               | • | Twin auxiliary hydraulic service            | + | High lift loader end (ZX loader only)                                     | + |
| Hydraulic oil temperature               | • | Twin piston pumps with priority steer       | • | Super high lift loader end (HT loader only)                               | + |
| Torque convertor temperature            |   | Emergency steer back-up                     | • |   |   |
|   |   |   |   |   |   |
| Volume of fuel remaining                | • | JCB biodegradable hydraulic oil             | + | STANDARD •  |   |



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

### **Wheeled Loading Shovel 457**

Gross engine power: 193kW (258hp) Operating weight: 19.6 – 24.6t Full turn tipping load: 13,690kg Standard shovel capacity: 3.5m<sup>3</sup>

JCB Sales Limited, Rocester, Staffordshire, United Kingdom ST14 5JP.
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Download the very latest information on this product range at: www.jcb.com

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