



## CONSTRUCTION LOADALLS

531-70/541-70/535-95/533-105/535-125 HiViz/540-140 HiViz/540-170/540-180 HiViz/540-200

Gross power: 55kW/75hp – 93kW/125hp, Lift capacity: 3100kg – 4100kg, Lift height: 7m – 20m





2016 | PARIS

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JCB 540-180  
Hi-Vite

JCB



A yellow JCB telehandler is shown in the foreground, lifting a large spool of corrugated metal. The Eiffel Tower is visible in the background. A green container is partially visible on the right side of the image.

# Unrivalled pedigree...

JCB first pioneered the telehandler concept back in 1977 and have continued to develop the concept to meet the needs of both rental companies and contractors alike. You'll therefore find that these latest Loadalls represent the ultimate in innovation, cost of ownership and corporate responsibility, not to mention: power, productivity, safety, and a whole lot more besides. No wonder then, forty years after developing our first Loadall, JCB remains the world's number one telehandler manufacturer.

**NEW** The 55kw Stage V JCB 430 engine meets the most demanding emissions standards and develops 10% greater torque while still packaging in the same space – no other manufacturer can compete with the ease of operation of the Loadall range.



# UNRIVALLED PRODUCTIVITY.

THE NEW CONSTRUCTION LOADALL RANGE IS DESIGNED TO MAKE THE MOST EFFICIENT USE OF YOUR TIME AND MONEY. THAT MEANS YOU CAN EXPECT SUPERLATIVE PERFORMANCE, VERSATILITY, VISIBILITY, CYCLE TIMES AND ERGONOMICS. CLASS-LEADING PRODUCTIVITY IS A GIVEN.

## A productive machine.

Class-leading JCB hydraulics produce fast cycle times, ensuring the most efficient lifting, extending and pushing.

**1** The 540-180 HiViz has a precise high-speed double boom chain extension system to maximise job site efficiency. Electro servo hydraulics and a high-flow 110 l/min hydraulic pump also ensure fast cycle times.

**2** The unique regenerative hydraulic system, part of JCB's SMART Technology package, harnesses gravitational forces, diverting oil back to the rams while the arm is lowering. On the 540-180 HiViz and 540-200 this feature helps to reduce cycle times by up to 20% and fuel consumption by 4.4%.

**3** A JCB Construction Loadall is extremely manoeuvrable; the compact wheelbase, large steering lock angles and 3 steer modes save valuable time on site.

\*Model dependent.



The JCB Dieselmix engine produces its power and torque at low engine speeds, which makes it highly responsive to operate. With a variable geometry turbo for superb performance at low revs, you can expect greater fuel efficiency.\*

Multi-function single lever servo control provides fast and accurate load placement and control direction change is easy at the flick of a switch.\*







Unrivalled forward reach and lift height along with an industry leading compact design, the JCB Loadall range can take the place of a mobile crane, wheel loader, skid steer or industrial forklift.



# UNRIVALLED SAFETY AND SECURITY.

ON-SITE SAFETY IS OF PARAMOUNT IMPORTANCE, SO JCB CONSTRUCTION LOADALLS HAVE A WEALTH OF FEATURES DESIGNED TO PROTECT THEMSELVES, THEIR OPERATORS AND ANY BYSTANDERS. THEY'RE ALSO EQUIPPED WITH A COMPREHENSIVE SECURITY PACKAGE.

## Protecting your most important assets.

**1** The low boom profile and pivot point provide unrivalled rearward visibility to obstacles and on site traffic. A full set of side and rear-view mirrors enhance all-round visibility and safety compliance.

LiveLink tracking provides valuable real-time machine location data. Geofencing alerts help to ensure your machine is only used in specified areas.

In many territories, our Loadall security system is Thatcham-approved. The package comprises a JCB LiveLink telematic GPS vehicle tracker, an immobiliser and a Cesar Datatag.

## A safer choice.

**2** A reversing camera and pulse radar options are now available on selected models, the screen is dash mounted and cameras can be mounted to rear and offside for operator peace of mind. For extra safety, we fit a reversing alarm as standard.

JCB LiveLink now has the ability to monitor seatbelt usage, to ensure operators are safe when operating the

machine. There is now also the ability to report on how long the machine has spent in each gear or reverse.

JCB LiveLink monitors when the LLMC (longitudinal load moment control) override button has been used by the operator to ensure they are operating safely. There are additional notifications which are activated when the machine is travelling over 5kph with the boom over a 30% angle and the operator is not in the seat with the engine running and park brake not engaged.

Sway frames enable an operator to make their machine absolutely level before commencing lifting.

A JCB Construction Loadall has hose burst check valves (HBCVs) to protect the rams from collapse in the event of hose failure.

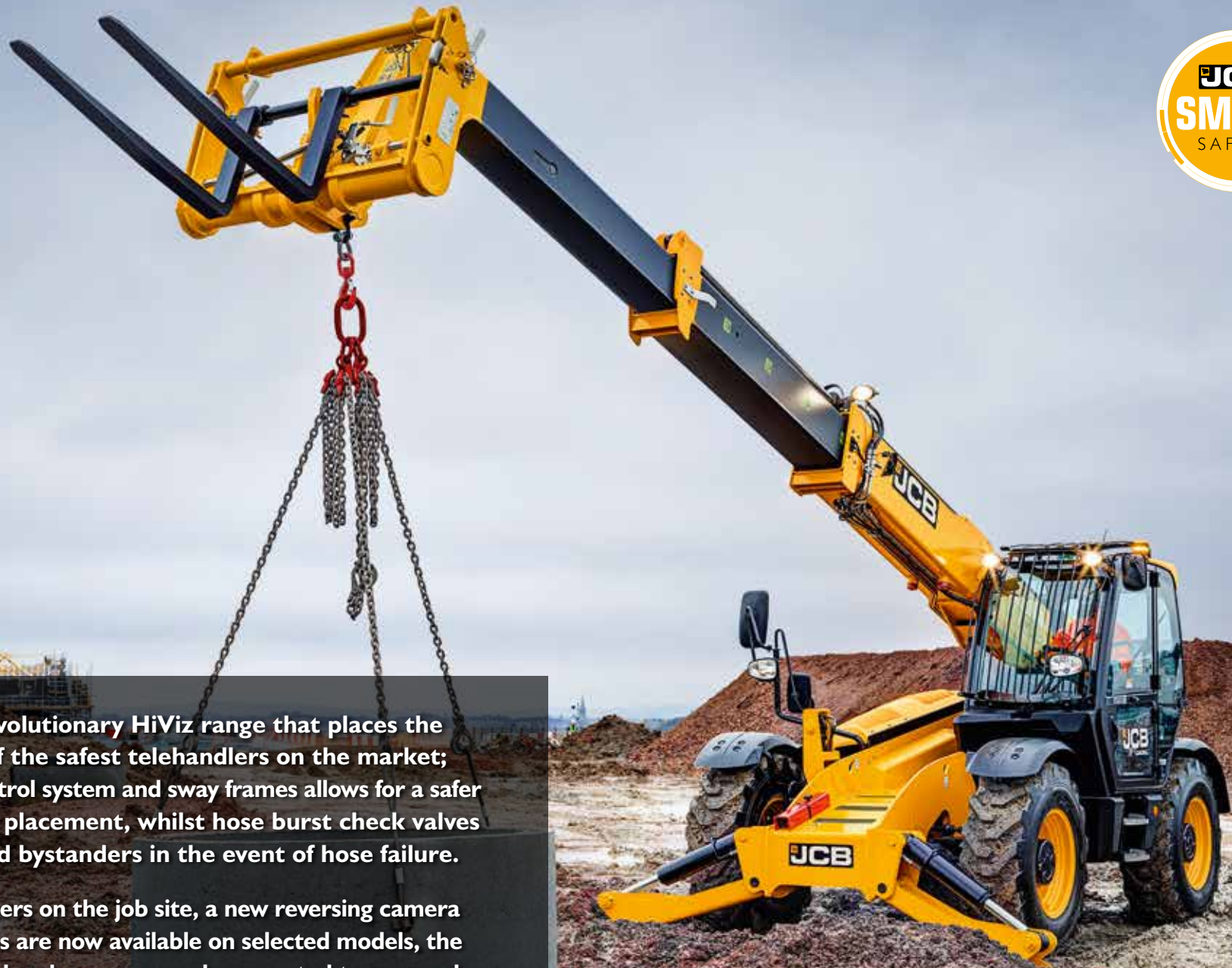






It's not only JCB's revolutionary HiViz range that places the JCB Loadall as one of the safest telehandlers on the market; Our patented load control system and sway frames allows for a safer and more stable load placement, whilst hose burst check valves protect the driver and bystanders in the event of hose failure.

To protect fellow workers on the job site, a new reversing camera and pulse radar options are now available on selected models, the screen is dash mounted and cameras can be mounted to rear and offside for full visibility around the machine.





# UNRIVALLED COST OF OWNERSHIP.

A JCB CONSTRUCTION LOADALL ISN'T JUST EFFICIENT TO USE – IT'S HUGEY EFFICIENT TO OWN AND OPERATE TOO. WE'VE DESIGNED THESE MACHINES TO GIVE YOU THE MAXIMUM POSSIBLE RETURN ON YOUR INVESTMENT, WITH GREAT FUEL EFFICIENCY, UNPARALLELED RESALE VALUE AND LOW RUNNING COSTS ALL PART OF THE PACKAGE.

## Powering low cost of ownership.

**1** The latest Stage V legislation compliant 55kW (74hp) engine from JCB offers a combined DPF/DOC after treatment package achieving Stage V emissions levels without the need for DEF injection, minimising the impact on machine service and operation.

JCB LiveLink enables remote monitoring of the machines DPF. JCB LiveLink can notify of any manual or service regeneration needed to protect the machine and ensure optimum performance. JCB LiveLink also monitors when an automatic regeneration has been overridden by the operator.

For larger fleet users a unique DPF status report is available to quickly understand DPF fill level %, regeneration requirements, DPF regeneration time spent in override and machines in derate.

**2** The 81kW (109hp) and 93kW (125hp) EcoMAX engines are fitted with a variable speed cooling fan that automatically reacts to ambient temperature,

adjusting fan speed for maximum economy and minimum noise.

Using real life fuel consumption data, accessed via our LiveLink Telematics system through 8.5 million customer hours and 10,000 machines, JCB's Loadall range consumed an average of 4.9/h, which equates to 13.5kg of CO<sub>2</sub> per hour thanks to our efficient high torque Dieselmix engine.

By comparison the 55kW Dieselmix equipped machines consumed 0.64l/h less (1.7kg of CO<sub>2</sub>/h) than the 81kW equivalents. This equates to 14.3% less fuel consumption.

## Holding its value.

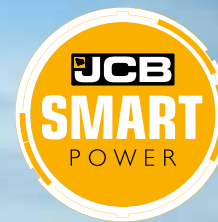
A JCB Construction Loadall is a valuable asset: big global demand, plus legendary productivity. This, in part, is down to the ability to remap the engine to run on lower-grade fuels, which means your machine (where legislation permits) can be resold across different territories, further boosting residuals.



By producing high levels of power and torque even at engine speeds as low as 1300–1400rpm, the Dieselmix engine can provide fuel-efficient matching of transmission and hydraulics.







The SMART POWER, 55kW engine can't be matched by competitor equivalents. JCB is the only manufacturer to manufacture their entire driveline meaning that all components are configured specifically to get the most out of each model variant.



# UNRIVALLED MACHINE UPTIME.

TO MAKE THE MOST OF YOUR INVESTMENT, YOU NEED MACHINERY TO SPEND ITS TIME WORKING, NOT BEING WORKED ON. THAT'S WHY JCB LOADALLS HAVE LONG SERVICE INTERVALS AND, WHEN MAINTENANCE DOES NEED TO BE CARRIED OUT, IT'S EASY AND QUICK TO PERFORM.

## Maintaining productivity.

**1** All daily checks, greasing and serviceable components can be accessed at ground level. Our optional centralised greasing system makes for quicker and easier servicing.\*

**2** You can access a Construction Loadall's battery easily (and without specialist tools) via a lockable cover that's opened with the ignition key.

**3** It's easy to fill both the diesel and AdBlue tanks from ground level. Both tanks also have built-in pre-filters in the filler necks to guard against dirt and contaminants.

A dry lubricant system means a Loadall's wear pads are extremely durable, with 500- hour service intervals.

**4** Our construction Loadall range is fitted with a cyclonic air filtration system including an aspirator pre-filtration device to maximise filter life.

\* Model Dependent

The filters on a Loadall (engine oil, hydraulic oil and fuel) are centrally located for fast, easy servicing. The air filter double element design simplifies cleaning. Yet another reason why Construction Loadalls have best-in-class SAE serviceability ratings.

4



1



2



3





To prove how good our Dieselmax engines are, we've tested them for 110,000 hours in 70 different machines across the toughest applications and environments.



# UNRIVALLED STRENGTH AND DURABILITY.

IN ORDER TO BE TRULY PROFITABLE, CONSTRUCTION LOADALLS ARE DESIGNED TO PROVIDE YOU WITH MAXIMUM UPTIME. OUR MACHINES ARE AS TOUGH AS POSSIBLE, USING TOP QUALITY COMPONENTS AND INNOVATIVE MANUFACTURING PROCESSES. THIS, IN TURN, ENSURES MAXIMUM SERVICE LIFE.

## Tried and tested.

**1** The new Construction Loadall range's stringent testing programme has included prolonged high stress loading of the chassis, boom and other key components, as well as cold climate testing and repeated transmission use over thousands of cycles.

## Tough boom design.

**2** For ultimate strength and durability, there's a large boom overlap of over 1m on every model. Hoses are routed through this boom structure for maximum protection.

## Built-in protection.

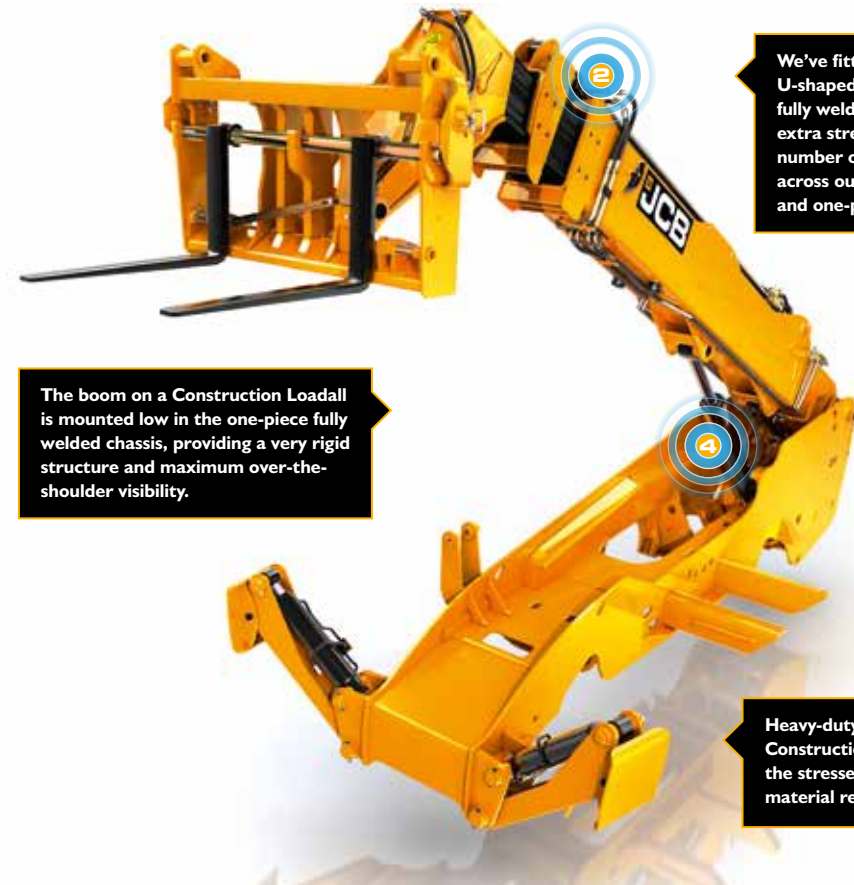
**3** Construction Loadall bonnets are protected from damage by being side-mounted on the chassis and recessed.

Fold-up rear lights can be kept clear and well protected from potential damage on site.

Opt for front and top screen roof guards for added protection from falling objects.

**4** Lift and displacement rams are centralised to ensure load stresses are evenly distributed.

**5** The lift, tilt and extension rams are held in place by keyhole castings for greater structural integrity.



We've fitted a tough inverted U-shaped boom pressing with fully welded closing plates. For extra strength, we've reduced the number of joints and stress points across our integrated boom nose and one-piece closing plate.

The boom on a Construction Loadall is mounted low in the one-piece fully welded chassis, providing a very rigid structure and maximum over-the-shoulder visibility.

Heavy-duty axle feet help your Construction Loadall to absorb the stresses generated during material rehandling applications.





**JCB manufactures hydraulic cylinders, cabs, axles, transmissions and engines that are all purpose built for the JCB Loadall range.**





## UNRIVALLED COMFORT AND EASE OF USE.

FOR A MACHINE TO PROVIDE MAXIMUM EFFICIENCY, IT NEEDS TO BE INTUITIVE AND COMFORTABLE TO OPERATE. WE'VE THEREFORE DESIGNED THE CONSTRUCTION LOADALL RANGE TO PROVIDE THE MOST ERGONOMIC OPERATOR ENVIRONMENT ON THE MARKET SO THAT YOU GET THE MOST OUT OF BOTH MACHINE AND OPERATOR.

### Comfortably in control.

**1** As standard, the 540-180, 540-140 and 535-125 have simple-to-use twin manual levers with a manual auxiliary. The 540-170 and 540-200 Loadalls are fitted with a servo joystick for fast and precise control (this feature is optional on a 540-180, 540-140 and 535-125).

**2** Backlit switches are crystal clear, even in the dark. And new instruments and a Hi-Res TFT screen form an intuitive automotive-style layout.

**3** To create the perfect driving position, opt for the easily adjustable tilting telescopic steering column.

**4** The 7-speed fan heater creates the most comfortable, productive operator environment.

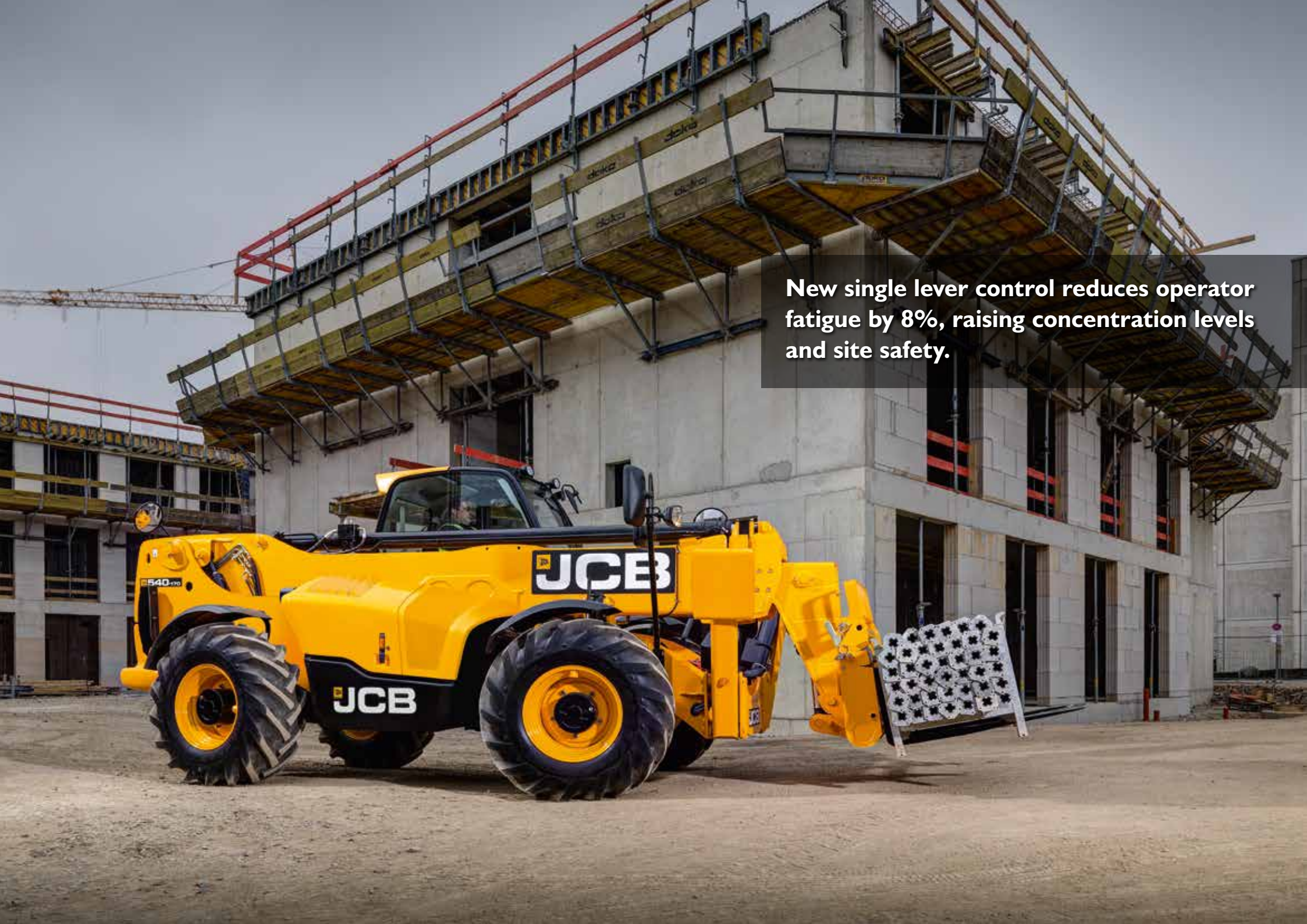
### Visibly better.

Visibility is excellent, courtesy of direct glazing, a large roof screen, standard-fit tinted cab glass and a low mounted boom.

Roof bars are strategically placed for maximum visibility when placing at height. Choose cab, front and rear lights for ultimate visibility.





A yellow JCB 540-170 telehandler is shown in profile, lifting a pallet of white, star-shaped concrete blocks. The machine is positioned in front of a multi-story building under construction, which is heavily scaffolded with wooden and metal structures. The JCB logo and model number are visible on the side of the machine. The scene is set on a dirt construction site under an overcast sky.

**New single lever control reduces operator fatigue by 8%, raising concentration levels and site safety.**



# THE 540-180 HIVIZ: A SMART INVESTMENT FROM JCB.

**THIS INDUSTRY LEADING TELESCOPIC HANDLER OFFERS INCREDIBLE RETURN ON INVESTMENT FOR THE RENTAL INDUSTRY, WHILST ENSURING PERFORMANCE AND ONSITE SAFETY IS UNRIVALLED.**

## A smart investment.

Boasting the industry's lowest cost of ownership, the new 540-180 HiViz is designed to maximise your return on investment throughout its life. Furthermore, JCB's unrivalled residual value means your Loadall is worth more when it's time to replace your machine.

## Industry's lowest service maintenance costs.

**1** The 540-180 HiViz is designed to spend as much time on site as possible. With the lowest 1000hr servicing costs in the industry, along with ground level daily checks, lead to an industry leading SAE rating.

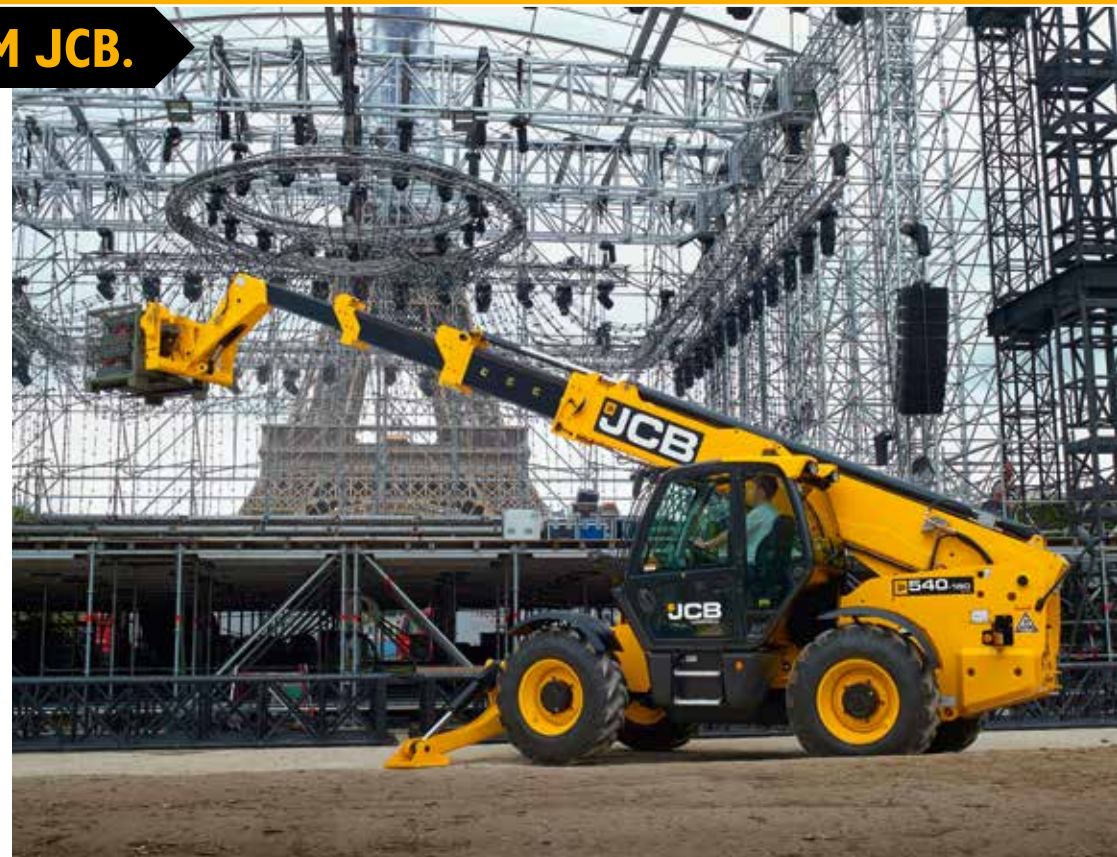
New on the 540-180 HiViz is the optional centralised greasing system, making daily checks and maintenance even easier.

**2** We've also taken into account transportation costs. The small footprint of the 540-180 HiViz means it can be transported in a curtain-sided trailer, whilst tie down points have been designed to ensure securing the Loadall can be completed from ground level.

## Work smarter with JCB LiveLink.

**3** JCB's own telematics and fleet management system, LiveLink, allows you to keep abreast of your machine fleet. Along with tracking machine hours, LiveLink enables you to monitor fuel consumption, service and maintenance alerts.

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.





The new Stage V JCB 430 Dieselmax engine only has DPF/DOC after treatment, minimising cost and complexity for the operator.





# THE 540-180 HIVIZ: **WORKING SMARTER.**

**THERE'S NO MACHINE THAT WORKS HARDER ON SITE – FROM UNLOADING THE FIRST TRUCK TO LIFTING THE LAST ROOF TILE, A TELESCOPIC HANDLER NEVER STOPS. WITH UNIQUE SAFETY FEATURES AND INDUSTRY LEADING PRODUCTIVITY, THE 540-180 HIVIZ CAN DO IT ALL .**

## **Being smart about safety.**

**1** The HiViz range of JCB Loadalls has long stood for class leading visibility. The 540-180 is the latest in the HiViz range to benefit from the low boom pivot point, enabling unrivalled visibility around the machine.

Sway frames enable an operator to make their machine absolutely level before commencing a lift.

## **Smart productivity and efficiency.**

**2** A clever 4-piece boom design combines a hydraulic ram and chains to extend or retract all the sections proportionally in one fast, smooth movement.

JCB's unique regenerative hydraulics harness gravitational forces, diverting oil back to the rams while the arm is lowering. This feature helps to reduce cycle times by up to 20% and fuel consumption by 4.4%.

The JCB Dieselmix engine produces its power and torque at low engine speeds, which makes it highly responsive to operate. With a variable geometry turbo for superb performance at low revs, you can expect greater fuel efficiency.



JCB's patented Adaptive Load Control system, a solution for the European standard EN15000, provides smooth progressive boom extension for safe load retention.



**With a 10% reduced turning circle than the 540-170 as well as 1000kg lighter thanks to a shortened chassis and lightweight boom sections, the 540-180 HiViz is one of the most manoeuvrable machines around.**





# UNRIVALLED WORK HEIGHT.

JCB AERIAL WORK PLATFORMS ARE AVAILABLE FOR THE 540-200, 540-I80, 540-I70 AND 540-I40 LOADALLS, ALLOWING PERSONNEL TO WORK AT UP TO 20.3M. YOU CAN ALSO CHOOSE FROM TWO PLATFORM TYPES, ENSURING THAT YOU CAN MEET EVEN THE MOST DIFFICULT ACCESS REQUIREMENTS.

## A full range of options.

**1** By offering our work platforms across three Loadall models, you can be assured of raising personnel to heights up to 20.3m, with a working reach of up to 11.63m.

With two platforms to choose from, you can select your perfect solution:

- > 2.2m fixed, payload 1000kg, 3 persons.
- > 2.4m extending to 4.4m with 180-degree slewing, payload 500kg, 3 persons.

## Safe operation.

**2** JCB aerial platforms have an interlock on the park brake and stabilisers, with full radio remote control and single key remote activation.

**3** There's a built-in motion control system to guard against forward overload; all platform and machine combinations conform to EN280 standards for complete peace of mind.





**Further widening the versatility of the JCB Loadall, the aerial work platform is more mobile and cost effective than a boom or scissor lift.**





# UNRIVALLED VERSATILITY THROUGH ATTACHMENTS.

CUSTOMERS CHOOSE JCB CONSTRUCTION LOADALLS BECAUSE THEY'RE LOOKING FOR THE ULTIMATE IN EFFICIENCY, RETURN ON INVESTMENT, SAFETY AND PRODUCTIVITY. ALL JCB LOADALLS HAVE A VERSATILE SINGLE BOOM AUXILIARY FEATURE WHICH CAN POWER MANY ATTACHMENTS. THE JCB QUICKHITCH SYSTEM MAKES ATTACHMENT CHANGING FAST AND EASY.

## Concrete skip.

**1** A lever-operated discharge gate controls the release of concrete. Fork pockets allow side or rear pick-up and the low profile version is ideal for working within restricted heights.

## Integral sideshift.

**2** Especially useful when working at height, this feature lets you position forks ready for load pick-up, as well as sideshift a load during placing.

## General purpose shovel.

**3** This attachment is ideal for efficient re-handling of materials including sand, soil and building waste.

## Sweeper collectors.

**4** Designed to meet the needs of the modern plant hire company and construction operator, our sweeper collector has a one-piece canopy to take all the knocks of everyday use.

## Crane hook.

**5** Speed up the process of picking up suspended loads with a crane hook mounted on the forks. This feature makes full use of your versatile Construction Loadall.

## Extension jib.

It's easy and efficient to handle bulky, suspended loads such as roof trusses, tanks, ducting and prefabricated components with this lightweight strong attachment.

## Fork positioner.

**6** To reduce operator downtime, manual fork shifting is eliminated by innovative hydraulically controlled fork spacing.











## LIVELINK TELEMATICS.

LiveLink telematics helps you monitor and manage your machine fleet remotely anywhere in the world by radically improving the efficiency, productivity, safety and security of all your JCB and non JCB machine fleet.

**MACHINE EFFICIENCY:** Keep track of your machine's daily activity with regular performance reports which provide information about idle time, location, machine health, error codes for diagnostics, engine utilisation by power band, safety alerts, and fuel consumption. JCB LiveLink ensures machines are kept running for maximum uptime and return on investment.

**MACHINE RELIABILITY:** Accurate hours and service alerts improve maintenance planning to optimise machine productivity.

**MACHINE SECURITY:** LiveLink's real time geo-fencing alerts tell you when machines move out of predetermined zones. Curfew alerts inform you of unauthorised usage.



Track the location of any asset via Bluetooth connection.



An after market telematics solution which can be retrofitted to any machine.



## COMPLETE CONTROL FOR YOUR FLEET.

LiveLink Fleet enables you to track every aspect of your equipment to maximise efficiency and machine uptime.

**GUESS LESS, KNOW MORE:** Equipment issues and service reminders are logged as soon as they occur, helping you to react quickly.

**YOUR EYES ON THE GROUND:** Integrate LiveLink Fleet with the JCB Operator mobile app and data from your operators' daily equipment checks feed instantly into your dashboard.

**TOTAL PEACE OF MIND:** Operator safety alerts help to ensure machines are being used efficiently and safely.

**SMARTER TOOLS. SMARTER DECISIONS:** From hours worked to fuel wastage, access custom analytics on your fleet to make smarter decisions, quicker.

**EFFORTLESS MEETS PAPERLESS:** Access certificates, warranty information, quick start machine guides and manuals.

## The JCB Operator app

### THEY SPOT IT, YOU KNOW IT.

The JCB Operator app gives you faster, clearer and more accurate information about your fleet, direct from the people using your equipment each day.

**STAY IN TOUCH:** Get regular checks on your machine with visibility in the LiveLink Fleet portal.

**TAILOR YOUR CHECKS:** Customise your checklists to suit any application, customer or site.

**UPLOAD TO KEEP UPDATED:** Upload useful information with photos and comments.

**FULLY COMPATIBLE:** The JCB Operator app works with non telemetry related machines and assets.

**ACCESS ALL INFORMATION:** Get access to documentation such as quick start guides.

\*The individual features of LiveLink Telematics, LiveLink Fleet and Operator App vary per region, engine and machine type.



## VALUE ADDED.

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.



1

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

2 The global network of JCB Parts Centres is another model of efficiency; with 18 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



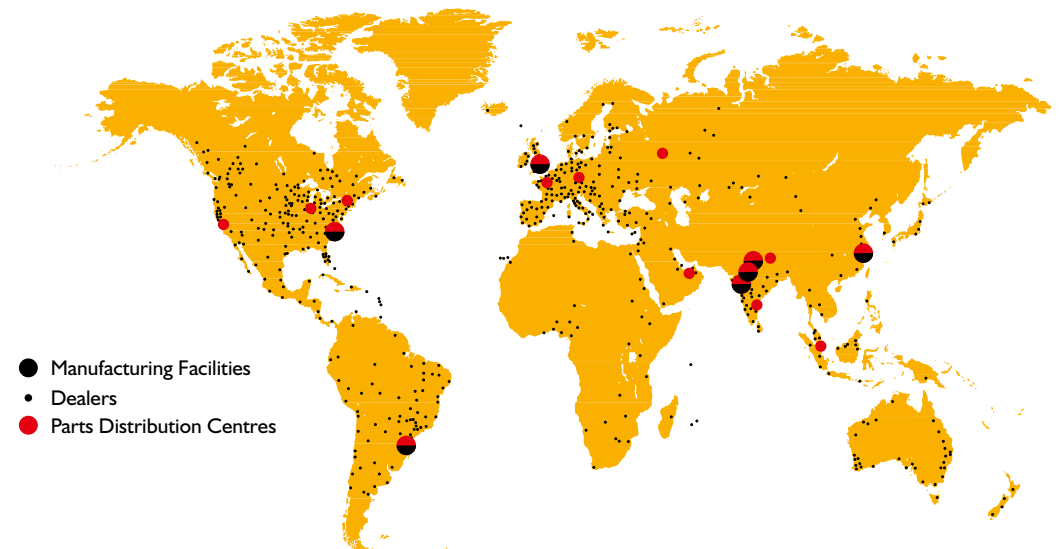
2

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



3

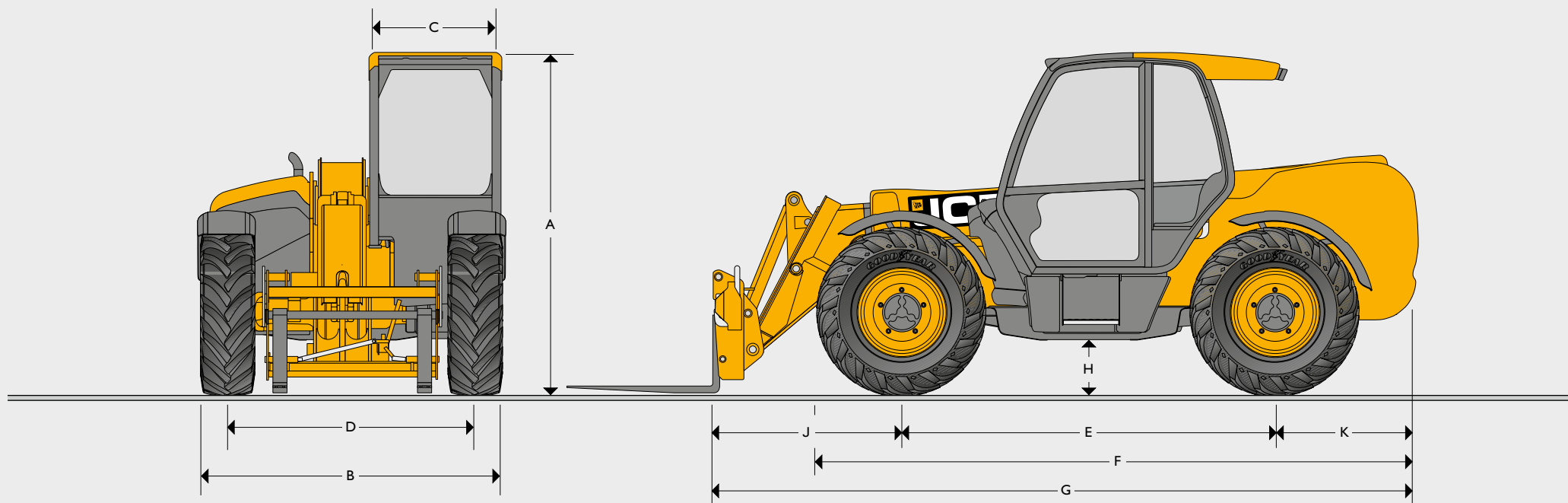
Note: JCB LIVELINK and JCB extended warranty packages may not be available in your region, so please check with your local dealer.



- Manufacturing Facilities
- Dealers
- Parts Distribution Centres



## STATIC DIMENSIONS



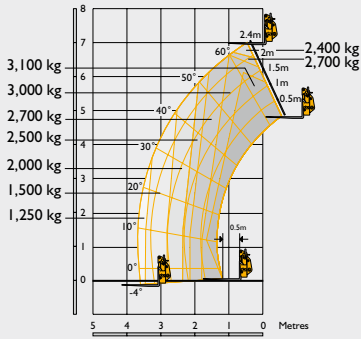
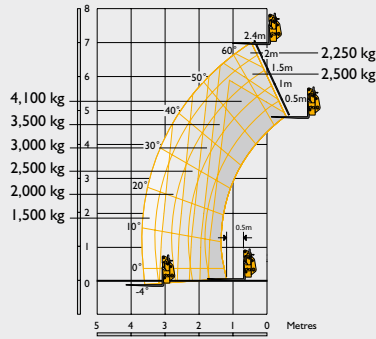
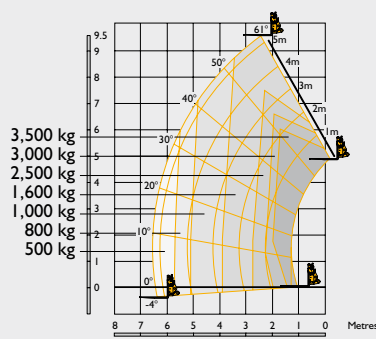
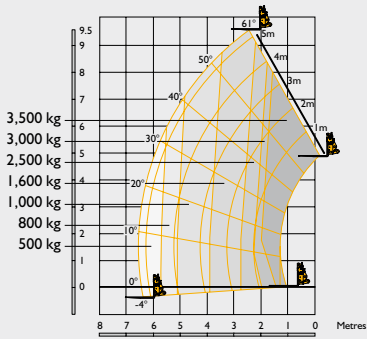
## STATIC DIMENSIONS

| Machine model                                 |         | 531-70     | 541-70     | 535-95     | 533-105    | 535-125 HiViz | 540-140 HiViz | 540-170    | 540-180 HiViz | 540-200 |
|-----------------------------------------------|---------|------------|------------|------------|------------|---------------|---------------|------------|---------------|---------|
| A Overall height                              | m       | 2.49       | 2.49       | 2.49       | 2.49       | 2.59          | 2.59          | 2.69       | 2.59          | 2.72    |
| B Overall width (over tyres)*                 | m       | 2.23       | 2.23       | 2.36       | 2.36       | 2.35          | 2.35          | 2.44       | 2.35          | 2.44    |
| C Inside width of cab                         | m       | 0.94       | 0.94       | 0.94       | 0.94       | 0.94          | 0.94          | 0.94       | 0.94          | 0.94    |
| D Front track                                 | m       | 1.81       | 1.81       | 1.87       | 1.87       | 1.90          | 1.90          | 1.90       | 1.90          | 1.97    |
| E Wheelbase                                   | m       | 2.75       | 2.75       | 2.75       | 2.75       | 2.75          | 2.75          | 2.75       | 2.75          | 2.75    |
| F Overall length to front tyres               | m       | 4.38       | 4.38       | 4.38       | 4.38       | 4.74          | 4.74          | 5.08       | 4.75          | 5.09    |
| G Overall length to front carriage            | m       | 4.99       | 4.99       | 4.99       | 5.38       | 5.80          | 6.23          | 6.36       | 6.27          | 6.81    |
| H Ground clearance                            | m       | 0.40       | 0.40       | 0.40       | 0.40       | 0.40          | 0.40          | 0.40       | 0.40          | 0.41    |
| J Front wheel centre to carriage              | m       | 1.25       | 1.25       | 1.20       | 1.62       | 1.68          | 2.11          | 1.94       | 2.15          | 2.39    |
| K Rear wheel centre to rear face              | m       | 0.99       | 0.99       | 1.04       | 1.01       | 1.37          | 1.37          | 1.67       | 1.37          | 1.67    |
| Overall width with stabilisers fully deployed | m       | NA         | NA         | NA         | 2.63       | 2.57          | 2.57          | 3.55       | 3.39          | 3.82    |
| Outside turn radius (over tyres)              | m       | 3.7        | 3.7        | 3.7        | 3.7        | 3.75          | 3.75          | 4.10       | 3.75          | 4.1     |
| Carriage rollback angle                       | degrees | 42.6       | 42.6       | 41.0       | 41.2       | 37.0          | 37.0          | 39         | 36.50         | 39      |
| Carriage dump angle                           | degrees | 37.5       | 37.5       | 24.0       | 24.0       | 12.5          | 12.5          | 8.8        | 12.50         | 8.8     |
| Weight                                        | kg      | 7060       | 7850       | 8215       | 8850       | 10066         | 10880         | 12060      | 11380         | 12985   |
| Tyres                                         |         | 15.5/80-24 | 15.5/80-24 | 15.5/80-24 | 15.5/80-24 | 15.5/80-24    | 15.5/80-24    | 15.5/80-24 | 15.5-25       | 17.5-25 |

\* Type dependent

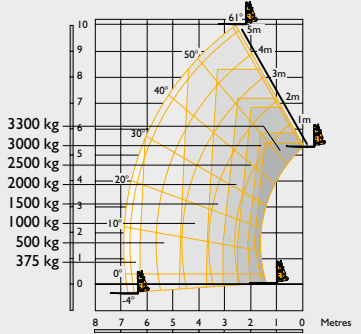
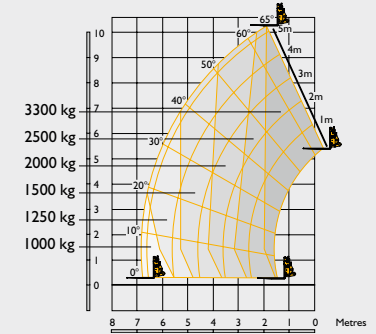
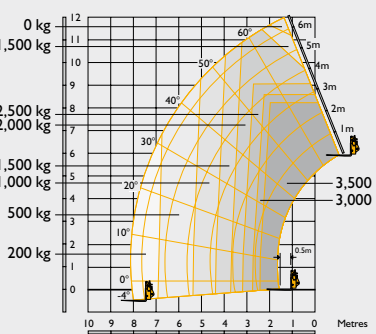
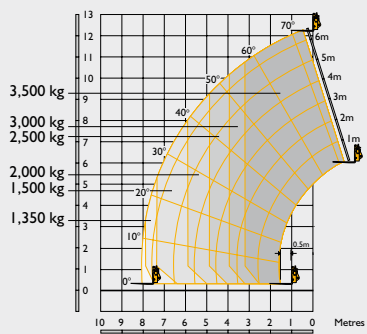


## LIFT PERFORMANCE

|                              |    | 531-70                                                                            | 541-70                                                                             | 535-95                                                                              | 535-95 Sway                                                                         |
|------------------------------|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              |    |  |  |  |  |
| Maximum lift capacity        | kg | 3100                                                                              | 4100                                                                               | 3500                                                                                | 3500                                                                                |
| Lift capacity to full height | kg | 2400                                                                              | 2250                                                                               | 1600                                                                                | 1600                                                                                |
| Lift capacity at full reach  | kg | 1250                                                                              | 1500                                                                               | 500                                                                                 | 500                                                                                 |
| Lift height                  | m  | 7.0                                                                               | 7.0                                                                                | 9.50                                                                                | 9.50                                                                                |
| Reach at maximum lift height | m  | 0.54                                                                              | 0.54                                                                               | 2.49                                                                                | 2.49                                                                                |
| Maximum forward reach        | m  | 3.7                                                                               | 3.7                                                                                | 6.52                                                                                | 6.52                                                                                |
| Reach with 1 tonne load      | m  | 3.7                                                                               | 3.7                                                                                | 5.08                                                                                | 5.08                                                                                |
| Placing height               | m  | 6.3                                                                               | 6.3                                                                                | 8.78                                                                                | 8.78                                                                                |

Complies with stability test EN 1459 Annex B. Chassis Levelling (Sway) with stabilisers retracted (Sway angle  $\pm 9^\circ$ ).

## LIFT PERFORMANCE

|                              |    | 533-105 Stabilisers retracted                                                      | 533-105 Stabilisers extended                                                        | 535-125 HiViz Stabilisers retracted Sway                                             | 535-125 HiViz Stabilisers extended Sway                                              |
|------------------------------|----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                              |    |  |  |  |  |
| Maximum lift capacity        | kg | 3300                                                                               | 3300                                                                                | 3500                                                                                 | 3500                                                                                 |
| Lift capacity to full height | kg | 1000                                                                               | 2500                                                                                | 1500                                                                                 | 3500                                                                                 |
| Lift capacity at full reach  | kg | 375                                                                                | 1000                                                                                | 200                                                                                  | 1350                                                                                 |
| Lift height                  | m  | 10.22                                                                              | 10.22                                                                               | 11.6                                                                                 | 12.27                                                                                |
| Reach at maximum lift height | m  | 2.69                                                                               | 1.99                                                                                | 2.01                                                                                 | 0.54                                                                                 |
| Maximum forward reach        | m  | 6.83                                                                               | 6.83                                                                                | 8.06                                                                                 | 8.06                                                                                 |
| Reach with 1 tonne load      | m  | 6.83                                                                               | 6.83                                                                                | 5.31                                                                                 | 8.06                                                                                 |
| Placing height               | m  | 9.44                                                                               | 9.82                                                                                | 11                                                                                   | 11.75                                                                                |

Complies with stability test EN 1459 Annex B. Chassis Levelling (Sway) with stabilisers retracted (Sway angle  $\pm 9^\circ$ ).



## LIFT PERFORMANCE

|                              |    | 540-140 HiViz Stabilisers retracted Sway | 540-140 HiViz Stabilisers extended Sway | 540-170 Stabilisers retracted Sway | 540-170 Stabilisers extended Sway |
|------------------------------|----|------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------|
|                              |    |                                          |                                         |                                    |                                   |
| Maximum lift capacity        | kg | 4000                                     | 4000                                    | 4000                               | 4000                              |
| Lift capacity to full height | kg | 1500                                     | 3000                                    | 1500                               | 2500                              |
| Lift capacity at full reach  | kg | 200                                      | 1250                                    | 0                                  | 800                               |
| Lift height                  | m  | 12.89                                    | 13.78                                   | 11.57                              | 16.7                              |
| Reach at maximum lift height | m  | 3.09                                     | 1.01                                    | 4.32                               | 1.97                              |
| Maximum forward reach        | m  | 9.70                                     | 9.64                                    | 9.04                               | 12.50                             |
| Reach with 1 tonne load      | m  | 6.61                                     | 9.64                                    | 5.76                               | 11.70                             |
| Placing height               | m  | 12.40                                    | 13.30                                   | 10.90                              | 16.20                             |

Complies with stability test EN 1459 Annex B. Chassis Levelling (Sway) with stabilisers retracted (Sway angle  $\pm 9^\circ$ ).

## LIFT PERFORMANCE

|                              |    | 540-180 HiViz Stabilisers retracted Sway | 540-180 HiViz Stabilisers extended Sway | 540-200 Stabilisers retracted Sway | 540-200 Stabilisers extended Sway |
|------------------------------|----|------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------|
|                              |    |                                          |                                         |                                    |                                   |
| Maximum lift capacity        | kg | 4000                                     | 4000                                    | 4000                               | 4000                              |
| Lift capacity to full height | kg | 500                                      | 2500                                    | 500                                | 1500                              |
| Lift capacity at full reach  | kg | 0                                        | 550                                     | 0                                  | 200                               |
| Lift height                  | m  | 10.69                                    | 17.51                                   | 10.27                              | 20                                |
| Reach at maximum lift height | m  | 6.92                                     | 1.88                                    | 6.42                               | 2.82                              |
| Maximum forward reach        | m  | 10.47                                    | 13.34                                   | 9.63                               | 15.9                              |
| Reach with 1 tonne load      | m  | 6.25                                     | 11.72                                   | 6.25                               | 10.65                             |
| Placing height               | m  | 10.0                                     | 17.0                                    | 9.1                                | 19.1                              |

Complies with stability test EN 1459 Annex B. Chassis Levelling (Sway) with stabilisers retracted (Sway angle  $\pm 9^\circ$ ).



## LIFT PERFORMANCE

|                                         |    | 540-140 HiViz Man platform Stabilisers extended | 540-170 HiViz Man platform Stabilisers extended | 540-180 HiViz Man platform Stabilisers extended |              |               | 540-200 HiViz Man platform Stabilisers extended |
|-----------------------------------------|----|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--------------|---------------|-------------------------------------------------|
|                                         |    |                                                 |                                                 |                                                 |              |               |                                                 |
|                                         |    |                                                 |                                                 | 365kg basket                                    | 500kg basket | 1000kg basket |                                                 |
| Machine capacity                        | kg | 4000                                            | 4000                                            | 4000                                            | 4000         | 4000          | 4000                                            |
| Personnel work height                   | m  | 15.6                                            | 19.09                                           | 19.25                                           | 19.25        | 19.25         | 20.3                                            |
| Personnel work reach at maximum reach   | m  | 11.75                                           | 11.75                                           | 13.16                                           | 12.17        | 10.18         | 11.63                                           |
| Platform rated capacity                 | kg | 500                                             | 500                                             | 365                                             | 500          | 1000          | 500                                             |
| Capacity at full reach                  | kg | 365                                             | 500 @ 10.78m                                    | 365 @ 13.16m                                    | 500 @ 12.17m | 1000 @ 10.18m | 500 @ 11.63m                                    |
| Maximum forward reach (slewed platform) | m  | 11.14                                           | 10                                              | 12.5                                            | 11.5         | 10.18m        | 11.12                                           |
| Capacity to full working height         | kg | 500                                             | 500                                             | 365                                             | 500          | 1000          | 500                                             |

## POINT LOADS

At maximum machine lift capacity (i.e. 4 tonne on a 540-170)

|                      |    | 531-70 | 541-70 | 535-95 | 533-105 | 535-125 HiViz | 540-140 HiViz | 540-170 | 540-180 HiViz | 540-200 |
|----------------------|----|--------|--------|--------|---------|---------------|---------------|---------|---------------|---------|
| Load per front wheel | kg | 4731   | 5616   | 5540   | 5565    | 6365          | 6880          | 7541    | 6560          | 7723    |
| Load per rear wheel  | kg | 441    | 480    | 440    | 476     | 415           | 415           | 610     | 1131          | 730     |
| Load per stabiliser  | kg | N/A    | N/A    | N/A    | 4188    | 5151          | 6010          | 5824    | 6243          | 5760    |

With no load on the forks and boom retracted in travel position

|                      |    |      |      |      |      |      |      |      |      |      |
|----------------------|----|------|------|------|------|------|------|------|------|------|
| Load per front wheel | kg | 1803 | 1847 | 1957 | 2312 | 2499 | 2484 | 2694 | 2608 | 2992 |
| Load per rear wheel  | kg | 1819 | 2200 | 2273 | 2078 | 2530 | 3060 | 3457 | 3462 | 3462 |



| SPECIFICATION                                                                     |      | CONSTRUCTION LOADALLS 531-70/541-70/535-95/533-105/535-125 HiViz/540-140 HiViz/540-170/540-180 HiViz/540-200 |          |          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
|-----------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|----------|----------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|---------------|----------|
| ENGINE                                                                            |      |                                                                                                              |          |          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| JCB 430 Dieselmex Stage V 3ltrs 4 cylinder, aspiration turbo charged.             |      |                                                                                                              |          |          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| Engine 55kW (74hp) @ 2200rpm, 440Nm torque at 1300rpm                             |      | 531-70                                                                                                       | 541-70   | 535-95   | 533-105                 | 535-125 HiViz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 540-140 HiViz | 540-170  | 540-180 HiViz | 540-200  |
| JCB EcoMAX T4 Final, Capacity 4 cylinder 4.4ltrs, Aspiration turbocharged cooled. |      | Standard                                                                                                     | Standard | Standard | Standard                | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Standard      | Option   | Standard      | Standard |
| Engine 81kW (109hp) @ 2200rpm, 512Nm torque at 1300rpm                            |      | 531-70                                                                                                       | 541-70   | 535-95   | 533-105                 | 535-125 HiViz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 540-140 HiViz | 540-170  | 540-180 HiViz | 540-200  |
| Engine 93kW (125hp) @ 2200rpm, 550Nm torque at 1300rpm                            |      | Option                                                                                                       | Option   | Option   | Option                  | Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Option        | Standard | N/A           | Option   |
|                                                                                   |      | Option                                                                                                       | Option   | Option   | Option                  | Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Option        | Option   | N/A           | Option   |
| HYDRAULIC CYCLE TIMES                                                             |      |                                                                                                              |          |          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
|                                                                                   |      | 531-70                                                                                                       | 541-70   | 535-95   | 533-105                 | 535-125 HiViz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 540-140 HiViz | 540-170  | 540-180 HiViz | 540-200  |
| Boom raise                                                                        | s    | 7.2                                                                                                          | 8.8      | 9.1      | 8.8                     | 10.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13.5          | 22.7     | 13.8          | 17.3     |
| Boom lower                                                                        | s    | 5.4                                                                                                          | 6.5      | 7.7      | 8.5                     | 8.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11            | 23.4     | 10.2          | 15.9     |
| Extend                                                                            | s    | 6.8                                                                                                          | 6.8      | 10.5     | 13.2                    | 15.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15.6          | 18.3     | 22.4          | 28.1     |
| Retract                                                                           | s    | 5                                                                                                            | 5        | 11.2     | 13.6                    | 12.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14.4          | 16.7     | 17.9          | 22.7     |
| Bucket dump                                                                       | s    | 3.5                                                                                                          | 3.5      | 2.4      | 2.4                     | 1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.7           | 4.2      | 2.9           | 6.1      |
| Bucket crowd                                                                      | s    | 2.9                                                                                                          | 2.9      | 3.5      | 3.4                     | 2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.0           | 4.6      | 2.6           | 5.9      |
| HYDRAULICS                                                                        |      |                                                                                                              |          |          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
|                                                                                   |      | Hydraulic System Pressure (bar)                                                                              |          |          | Max. Pump flow (litres) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 531-70                                                                            |      | 241                                                                                                          |          |          | 82                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 541-70                                                                            |      | 260                                                                                                          |          |          | 82                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 535-95                                                                            |      | 241                                                                                                          |          |          | 82                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 533-105                                                                           |      | 241                                                                                                          |          |          | 82                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 535-125                                                                           |      | 260                                                                                                          |          |          | 110                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 540-140                                                                           |      | 260                                                                                                          |          |          | 110                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 540-170                                                                           |      | 260                                                                                                          |          |          | 170                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 540-180                                                                           |      | 260                                                                                                          |          |          | 103                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| 540-200                                                                           |      | 260                                                                                                          |          |          | 110                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
| NOISE AND VIBRATION                                                               |      |                                                                                                              |          |          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |          |               |          |
|                                                                                   |      | 55kW                                                                                                         | 81kW     | 93kW     | Uncertainty             | Measurement conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |          |               |          |
| Noise at the operator station                                                     | LpA  | 77                                                                                                           | 80       | 81       | +/- 1 dB                | Determined in accordance with the test method defined in EN12053.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |          |               |          |
| Noise emission from the machine LWA                                               |      | 104                                                                                                          | 106      | 107      | +/- 1 dB                | Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |          |               |          |
| Hand-arm vibration                                                                | m/s² | <2.5                                                                                                         | <2.5     | <2.5     | N/A                     | ISO 5349-2:2001 dynamic test conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |          |               |          |
| TRANSMISSION                                                                      |      |                                                                                                              |          |          |                         | Torque converter, 4 speed powershift gearbox.<br><b>Travel speed 531-70/541-70/535-95/533-105:</b> 29kph, 33kph (when 2/4WD select is specified).<br><b>Travel speed 535-125/540-140/540-170:</b> 29kph. Optional 33kph transmission.<br><b>Travel speed 540-180/540-200:</b> 29kph.                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |          |               |          |
| BRAKING                                                                           |      |                                                                                                              |          |          |                         | <b>Service brake:</b> Servo-assisted, hydraulically oil-immersed multi-disc on front and rear axle.<br><b>Parking brake:</b> Hand operated disc brake on output of gearbox. (93kW/125hp – oil immersed disc type).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |          |               |          |
| CAB                                                                               |      |                                                                                                              |          |          |                         | Conforms to ROPS ISO 3471 and FOPS ISO 3449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |          |               |          |
| OPTIONS                                                                           |      |                                                                                                              |          |          |                         | Front and rear working lights, rotating flashing beacon, fire extinguisher, traction and industrial tyres, electrical 2/4WD select, limited slip differential in front axle, windscreen and roof guard, air suspension seat, deluxe cab trim, roof and front screen blind, radio kit, air conditioning, reversing fan, deluxe trim, armrest (SLC only), roof moulding.<br><br>Single lever mechanical joystick, with push button extend and retract.<br><br>Single lever servo joystick option on 535-125, 540-140 & 540-180.<br><br>Options of rear or rear & offside reversing cameras with the extra option to add pulse radar all with dash mounted screen.<br><br>Centralised greasing available on the 540-180 HiViz. |               |          |               |          |









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### Construction Loadalls

531-70/541-70/535-95/533-105/535-125 HiViz/540-140 HiViz/540-170/540-180 HiViz/540-200

Gross power: 55kW/75hp – 93kW/125hp, Lift capacity: 3100kg – 4100kg, Lift height: 7m – 20m

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