### WHEEL LOADERS

## WII0D / WI30D / WI50D / WI70D / WI90D



# WORK SMART AND MOVE MORE.



## CONSTRUCTION POWER. INDUSTRIAL PRODUCTIVITY.

New Holland D-Series wheel loaders are developed from machines proven in the toughest quarries, 24-hour recycling plants and countless intensive industrial applications, and deliver tough, versatile and reliable performance. The latest D series wheel loaders now deliver more, with an all-new, best-inclass cab for improved visibility and unrivalled levels of comfort in addition to a range of new features to improve productivity.

The new touchscreen colour display hosts features such as a new integrated payload scale, new fuel saving engine work modes, tyre pressure monitoring and hydraulic aggressiveness settings. The three new armrest mounted configurable short-cut buttons allow operators to tailor their set up, so they can quickly access their most frequently used functions. On the outside, parallel lift technology is now available as standard on all Z-bar models and is no longer exclusive to Tool Carrier machines. The upgraded lighting package features additional rear LED lights integrated into the grill to give an overall output of an impressive 43,000 lumen. Operator comfort and convenience aren't the only things that have been improved, service intervals have now doubled to 1000 hours, halving your service time and reducing maintenance costs by up to 20%. New Holland wheel loaders have always offered exceptional levels of strength, performance and reliability. Now they offer exceptional levels of comfort, versatility, technology and economy to make them the operator's first choice.

Two engine working modes

Best in class cab

Standard or Long Reach booms

Adjustable hydraulic responsiveness

Tool Carrier parallel linkage boom option on W110 D,W130 D,W150 D &W170 D

Z-bar booms feature parallel lifting as standard

Bucket shake function

Fully integrated payload scale

Heavy-duty axles as standard on top four models

Z-Bar linkage with self levelling

\* on W130 D, W150 D & W170 D where local homologation allows



| MODELS | ENGINE POWER (HP) | Operating Weight<br>Z-bar / LR / TC (kg)* | Tipping load straight<br>Z-bar / LR / TC (kg)* |
|--------|-------------------|---|--|
| WII0 D | 142               | 11303 / 11431 / 11546                     | 8418 / 7184 / 7161                             |
| WI30 D | 172               | 13330 / 13512 / 13376                     | 10134 / 8464 / 8826                            |
| W150 D | 172               | 14515 / 14696 / 14446                     | 11400 / 9568 / 9740                            |
| W170 D | 195               | 16127 / 16330 / 15863                     | 12069 / 10204 / 10587                          |
| W190 D | 230               | 19397 / 19665 /                           | 13162 / 10420 /                                |

 $\ast$  weights quoted with Quick Coupler option & bucket with bolt on edge

## EFFICIENCY WITHOUT COMPROMISE.



*ECBlue* 

HI-eSCR2

Powered by 4.5L and 6.7L NEF High Efficiency Selective Catalytic Reduction HI-eSCR 2 engines, New Holland W110 D,W130 D,W150 D,W170 D and W190 D wheel loaders combine proven dependability and class leading economy. Compliant with Stage V emission regulations, the NEF power units have been co-developed with New Holland sister company FPT Industrial, the pioneer of common rail fuel injection and producer of SCR power units proven in agriculture, transport and industry for over 10 years. The latest ECOBlue and HI-eSCR 2 technology employs a newly developed electronic control unit that manages both the engine and the HI-eSCR exhaust to precisely match engine load, emissions and after-treatment. Using a dedicated closed loop system to continuously monitor NOx levels in the exhaust, HIeSCR precisely monitors the flow of AdBlue. This will achieve more than 95% NOx conversion with minimised AdBlue usage. Whats more, the HI-eSCR 2 system does not utilise a DPF or need to regenerate, so achieves a much lower maximum operation temperature, a critical factor when working with dry flammable material such as wood chips.





### **OPTIMUM WEIGHT DISTRIBUTION**

New Holland has engineered the D series wheel loader with the engine mounted far behind the rear axle, optimising the weight balance, eliminating the need to add extra "dead" weight. This approach also allows unhindered ground level access to the engine service points as there are no stacked radiators to get in the way. Due to the clean running characteristics of the power unit, engine oil change intervals are set at 1000 hours.

#### UNIQUE COOLING PACKAGE

• A key design feature of D series loaders in the positioning of the engine behind the rear axle, with a cooling 'cube' between the engine and transmission

• The programmable reversible fan option forces air through each of the five main radiators individually, ensuring each one benefits from a direct flow of cool air

• Hot air is not passed between each radiator, reducing the load on the cooling fan which in turn reduces power consumption



### Selectable engine work modes

Choose from two different engine modes to tailor engine output to your requirements for maximum efficiency and fuel savings.

• **Max mode:** optimises the the engine power and transmission to deliver maximum power, torque and acceleration for aggressive pushing and climbing.

• **Smart mode:** manages the engine and transmission performance to optimise fuel efficiency, reducing fuel use by up to 10%. Smoother gearshifts and increased operator comfort make it ideal for loading applications.



# UNMATCHED DURABILITY IN THE TOUGHEST ENVIRONMENTS

New Holland has engineered the D Series wheel loaders to suit handle all types of bulk materials. D Series wheel loaders also have the traction to work extremely muddy conditions. These machines are designed with maximum productivity in mind.

### POWERSHIFT TRANSMISSION WITH TORQUE CONVERTER

• The full model range offers options for either a 4-speed or 5-speed Ecoshift PowerShift transmission with a torque converter

• Auto-shifting and kick-down functions come standard across all models

• 5-speed transmission includes a 'power-inch' function, the transmission delivers optimised pushing power whilst eliminating roll back

• The 4-speed transmission is equipped with the Intelligent Declutch System as a standard feature. When braking, the system redirects full engine power to the hydraulics, ensuring maximum loading performance

• On all models, the forward reverse shuttle can be operated via a steering column mounted lever or by forward / reverse buttons on the joystick

• To speed load cycles, releasing the drive pedal will bring the loader to a stop without the need to use the brakes. Even on an incline, there will be no roll back

\* 50kph with Michelin Mega X-bib 750/65R26, where homologation allows



### **REAR AXLE OSCILLATION**

• Rear axle oscillation is not a compromise. Stability is ensured even when traversing uneven terrain or large debris, providing reliable performance during material handling and compaction tasks in construction environments



### **HEAVY DUTY AXLES**

• W150 D, W170 D & W190 D models feature a broad differential offering and Heavy Duty axles as standard:

- Choose from either LSD front and rear for soft
- changeable conditions
- 100% locking front and open rear for straight pushing
- or the best of both worlds in the form of the 100% locking front diff and LSD on the rear axle

 $\cdot$  W110 D models are equipped with Standard Duty axles and LSD front and rear

• W130 D models are equipped with 100% locking front diff and open rear on Heavy Duty axles

• The front differential can also be manually activated by a foot switch or configurable armrest button

• Heavy duty axles with front differential lock result in 20-30% less tyre wear and lower fuel consumption overall



### TRANSMISSION KICKDOWN

• All models have a transmission 'kickdown' feature activated by a button on the joystick

• This feature provides quick access to a lower gear to optimise power when climbing or pushing



### **DURABLE RUBBER STOPS**

• Durable replaceable rubber blocks absorb the impact of the chassis articulation points meeting at full steering lock

• Noise, shock and vibration is reduced as a result



### **TYRE PRESSURE MONITORING**

• A sensor on each wheel monitors the tyre pressure

• The driver is alerted on the touchscreen if pressure drops below range

• Correct tyre pressure is critical to reducing fuel consumption and tyre wear and minimising downtime and operating costs



# ERGONOMIC PERFECTION.

Purpose designed for the D series wheel loaders, the new generation cab offers class leading all-round visibility, comfort and operator security. Fully FOPS and ROPS certified, the new cab features a curved, one-piece windscreen offering a clear and uninterrupted view of the loader arm, with an excellent view to the front as the boom is raised. Visibility over the shoulder, to the sides and extremities is excellent, allowing the operator to place the machine accurately and with confidence in confined areas. The seat mounted joystick control features a fully adjustable armrest, and the redesigned side console ensures all key functions are always within easy reach. Stay properly connected thanks to the Bluetooth radio with ceiling mounted microphone and remote AUX and USB sockets in the side console. The advanced ventilation package ensures the cab remains comfortable regardless of outside temperatures, with excellent filtration allowing operation in dusty environments. To further aid comfort, the cab is mounted on purpose designed viscous oil suspension blocks to reduce noise and vibration and results in noise levels as low as 68dB(A).





### LUXURY SEAT OPTION

• Operators working over rough terrain, silage clamps and spending long hours in the cab can specify a deluxe seat with automatic weight adjustment, high visibility seatbelt, half leather trim, low frequency shock absorption system, headrest and heating



### **EXCELLENT VENTILATION**

• Thirteen adjustable vents keep you comfortable and the cab glass clear

• A grid defroster takes care of the rear window in cold conditions







• Dual internal cab mirrors and front and rear sun blinds increase safety and help reduce blindspots

• Right side window can be locked fully open to allow easy communication with people on the ground



**KEEP IT COOL** • Optional 30 litre portable coolbox keeps your drinks and snacks cool all day



### **CAB FILTRATION**

• The cab filter cartridge combines high levels of filtration with generous capacity to allow extended periods between renewal

• There is a choice between the standard CAT2 HVAC or a CAT3 Activated carbon filter can be ordered separately through CNH parts

• The filtration system is linked to an advanced heating and air-conditioned ventilation package

# CONTROLS.

The D series wheel loaders have a new armrest and joystick design that has been developed to considerably reduce operator fatigue. The angle of the operators arm to the body has been carefully considered to minimise strain on the joints and not to compromise blood flow. Full seating support ensures good posture is maintained. Three new armrest mounted configurable short cut buttons make the operators preferred frequently used functions more easily accessible. The result? Less fatigue and benefits for the operator's long term health.



### NEW SEAT MOUNTED ARMREST

• Fully adjustable seat mounted armrest and arm cushion

• Armrest can slide horizontally independently of the seat for maximum comfort

• Armrest cushion can move vertically







### NEW TOUCHSCREEN DASHBOARD DISPLAY

• New touchscreen, 8inch LCD colour display provides the operator with a digital dashboard on the A pillar

• Tap and scroll through various menus to include machine information, service settings and reminders or even the operators manual

• Set a variety of working parameters such as starting gear, flow rates and engine modes

• When reverse is selected, the display will automatically show the rear camera view

• The display is anti-glare and automatically switches between day and night modes



### **CONFIGURED FOR YOU**

• Three new configurable buttons on the armrest allow you to tailor your controls through the touchscreen

- Ergonomic position provides quick access to the most frequently used functions
- Configure different functions relative to different screen pages: home screen or payload screen
- Configurable functions include: diff lock engagement, camera, beacon, engine work mode, tare zero, new ticket



**SPOILED FOR CHOICE** • New joystick features FNR, auxiliary service and transmission kickdown functions as standard

• A 2nd auxiliary function can be specified on the joystick



EVERYTHING WITHIN EASY REACH

• New side console features a neat button cluster keeping everything within easy reach

• Grouped and colour coded, the buttons feature lights to indicate if the function is active

• Rubber lined storage trays, two cup holders, storage net, remote AUX jack & USB sockets and 12 volt power sockets are standard



DIFFERENTIAL LOCK & THROTTLE LOCK

• Differential lock is activated by a floor mounted electronic foot switch to the left of the brake pedal

• Large pedals are ergonomically positioned for brake and accelerator functions

Alternatively, differential lock can be activated by one of the freely configurable buttons on the armrest
The new throttle lock feature allows a target engine speed to be set for jobs like snow blowing and sweeping

# RAISING THE STANDARD.

New Holland W110 D, W130 D, W150 D, W170 D and W190 D wheel loaders are fitted as standard with the mighty Z-bar linkage boom, constructed from 45mm thick plate steel. The choice between Standard and Long Reach booms enables the machine to be specified to meet different handling priorities. On W110 D, W130 D, W150 D & W170 D models, the high visibility Tool Carrier parallel lift boom option is now available.

### SELF LEVELLING Z-BAR LINKAGE

In applications where digging and pushing performance as well as high breakout force are paramount, the Z-bar linkage is the natural choice. In addition, fewer moving parts simplify daily maintenance. Parallel lifting is now available as standard on Z-bar booms, so you get the best of both worlds, high breakout force with self levelling capability. Z-bar linkage loaders are offered with a choice of boom length:

### STANDARD BOOM

In demanding applications, the high-strength standard boom is ideally suited for working with heavy-duty attachments such as rock buckets, material handling forks, and debris pushers

### · LONG REACH BOOM

The Long Reach boom increases dump heights by 400 to 500mm, making it the ideal choice for rehandling duties such as material stockpiling, waste management, vehicle loading, and site clearance. It retains the exceptional strength of the standard boom, ensuring durability in demanding tasks









### **TOOL CARRIER LINKAGE**

In applications that require high visibility and self levelling capability, such as pallet handling using forks and specialist attachments, the Tool Carrier linkage is the best choice and comes as standard with the hydraulic quick coupler for attachment versatility.Tool Carrier linkage option is available on W110 D,W130 D,W150 D &W170 D models

# WATCHING YOUR WEIGHT.

Whether you're loading materials into a crusher, stockpiling soil or gravel, or loading trucks with construction aggregates, it's always beneficial to accurately know and record the quantities of material you're handling, especially if you're a contractor getting paid by the ton. New Holland D series loaders are now available with a fully integrated factory-fit payload scale, removing the guesswork from any loading task and ensuring maximum return on your investment.



### Lift to a predetermined height

**AUTOMATIC BOOM FUNCTIONS** 

- Return to a pre-set dig level
- Raise the boom to a set height for travel / cycling between load and dump
- Ride Control boom suspension with speed adjustment feature
- Bucket shake function







### HYDRAULIC FLOW ON DEMAND

 $\bullet$  Closed centre load sensing hydraulics are standard, the W170 D and W190 D benefitting from tandem pumps for increased capacity

• A key element of the New Holland design is efficiency, the pumps delivering the required hydraulic flow upon demand • When the brake pedal is pressed, full engine power is made available to the hydraulics but the system will only demand extra power as required for the task, adjusting flow in accordance with demands, for fast boom raise/lower or attachment crowd/dump

| MODEL   |         | Hydraulic pump capacity |
|---------|---------|-------------------------|
| WI IO D | (l/min) | 134                     |
| W130 D  | (l/min) | 169                     |
| W150 D  | (l/min) | 190                     |
| W170 D  | (l/min) | 206                     |
| W190 D  | (l/min) | 236                     |

### **CENTRALISED GREASE POINTS**

• Where possible, all grease points are grouped together

- The optional auto lubrication system ensures regular and
- metered lubrication to reduce whole life operating costs

• Automatic lubrication system features an in-cab switch to activate a manual greasing cycle



### AUTOMATIC PAYLOAD SCALE

The automatic payload scale uses the new touchscreen display to precisely weigh materials in real time during loading. It offers a range of features that streamline recordkeeping and management, such as the ability to store customer details, vehicle registrations, material types, and bucket sizes. This system simplifies tracking, allowing operators to input relevant data directly on the touchscreen, and print load tickets on-site once the job is complete. This not only enhances operational efficiency but also ensures accurate billing and load management, critical for maximising productivity.

- Easy to calibrate
- 98% + accuracy
- Target loading mode
- Auto loading mode
- Configurable armrest button functionality
- Slope correction
- Hydraulic oil temperature compensation
- Z-bar & Tool Carrier compatible

| Ям | achin | e Settings   Le | t & Tilt Control |            | 5 |  |
|----|-------|-----------------|------------------|------------|---|--|
|    | Lift  | Smooth          | Moderate         | Aggressive |   |  |
|    | Tilt  |                 |                  |            | - |  |
|    |       | Smooth          | Moderate         | Aggressive |   |  |

### TAILORED HYDRAULIC RESPONSE

Accessed via the touchscreen display, the hydraulic responsiveness of the lift and crowd functions, auxiliary hydraulics and joystick steering can be tailored to the application or operators experience.

- Smooth: more control for precision applications or novice operators
- Moderate: normal level of responsiveness

• **Aggressive:** sharper and more responsive control for fast operation and experienced drivers



## SPEND TIME SAVING MONEY.

A key benefit of the new Stage V compliant D series loaders is the vastly extended service intervals. At New Holland we know a vital machine such as a wheel loader has to be kept in top condition as it is often subject to a busy year round workload and can accumulate a high number of hours in a short period of time. In response to this we have doubled the engine service intervals from 500 to 1000 hours, and similarly increased the service intervals of other fluids and filters.



The figures speak for themselves, the time saved by not having to stop and service allows you to get to get the job done uninterrupted, whats more, you can save up to 20% on maintenance costs, a significant saving over the whole life of the machine. When combined with the fuel saving benefits of the new Smart engine work mode, New Holland D series wheel loaders guarantee low Total Cost of Ownership and keep you working for longer.

### Easy and fast service and maintenance

all key service items can be reached from ground level, the one-piece engine hood lifting and closing electronically for simplified access. The cube cooling pack is designed to be easy to clean. The cab filter can be removed, cleaned and replaced with no need to climb steps or fiddle with difficult fasteners. A further boost is the optional centralised greasing system.

New Holland D series wheel loaders are engineered for performance, longevity and reduced whole life operating costs.



• One piece engine hood features electric opening on W130 D,W150 D,W170 D and W190 D models



· Ground level service access makes jobs simpler, faster and safer



• Hood raise switch, battery kill switch and remote battery terminals are grouped at the rear





• Easy access to each of the individual radiators allows easy routine cleaning



• For security, the fuel tank and AdBlue tank are accessed only by raising the engine hood

## PRODUCTIVITY ENHANCING OPTIONS.



### TYRES

• New Holland offers a wide choice of factory fit tyres for work over paved surfaces or for use over soft ground or working on steep on steep slopes

• Wheel fender widths are available to match the selected wheel and tyre package



### QUICK COUPLER

Attachment versatility and timeliness is guaranteed thanks to the heavy duty hydraulic quick coupler which is compatible with a wide variety of attachments
Visible indicators show the operator the status of the locking pins



### JOYSTICK STEERING JSS

• The JSS system employs a joystick on the left armrest to control the steering function of the wheel loader

• Operator fatigue is greatly reduced and machine productivity is increased in repetitive-cycle operations such as truck loading and compost recycling, which typically follow a repetitive V pattern





### **LED** lighting

• Enhance safety and turn night into day with up to ten high intensity LED cab work lights

• Two additional LED hood lights illuminate the rear camera view to bring total light output to 43,000 lumens

• New egress lighting illuminates your path once the machine is switched off





| DIMENSIONS                                 |      | WIIOD  |       |        |       |              |  |  |  |
|--|------|--------|-------|--------|-------|--------------|--|--|--|
|  |      | Z-     | bar   | Long   | Reach | Tool Carrier |  |  |  |
| Bucket mount (with bolt-on cutting edge)   |      | Direct | QC    | Direct | QC    | B.O.E.       |  |  |  |
| Std GP Bucket Rated Capacity               | (m³) | 2.1    | 1.8   | 1.9    | 1.8   | 1.8          |  |  |  |
| Bucket Capacity at 110% Fill Factor        | (m³) | 2.3    | 2     | 2.1    | 2     | 2            |  |  |  |
| Bucket overall width                       | (mm) | 2497   | 2497  | 2497   | 2497  | 2497         |  |  |  |
| Bucket weight                              | (kg) | 847    | 1052  | 813    | 1052  | 1050         |  |  |  |
| A - Dump height at 45° @ full boom height  | (mm) | 2612   | 2482  | 3040   | 2922  | 2428         |  |  |  |
| B - Bucket hinge pin height                | (mm) | 3605   | 3605  | 3985   | 2985  | 3743         |  |  |  |
| C - Overall height                         | (mm) | 4743   | 4740  | 5061   | 5120  | 4932         |  |  |  |
| D - Bucket reach at full boom height       | (mm) | 1114   | 1069  | 1044   | 1127  | 1116         |  |  |  |
| E - Digging depth                          | (mm) | 83     | 102   | 108    | 137   | 197          |  |  |  |
| F - Wheelbase                              | (mm) | 2750   | 2750  | 2750   | 2750  | 2750         |  |  |  |
| G - Ground clearance                       | (mm) | 341    | 341   | 341    | 341   | 341          |  |  |  |
| H - Cab roof height                        | (mm) | 3275   | 3275  | 3275   | 3275  | 3275         |  |  |  |
| L - Overall length on ground (with bucket) | (mm) | 6838   | 6930  | 7111   | 7272  | 7120         |  |  |  |
| Overall length on ground (w/o bucket)      | (mm) | 5770   | 5770  | 6090   | 6090  | 5730         |  |  |  |
| W - Overall vehicle width (without bucket) | (mm) | 2448   | 2448  | 2448   | 2448  | 2448         |  |  |  |
| Departure angle                            | (°)  | 30     | 30    | 30     | 30    | 30           |  |  |  |
| RI - Turning radius (at outer wheel)       | (mm) | 5002   | 5002  | 5002   | 5002  | 5002         |  |  |  |
| Turning radius (at bucket corner)          | (mm) | 5524   | 5523  | 5667   | 5688  | 5527         |  |  |  |
| Full steering angle                        | (°)  | 40     | 40    | 40     | 40    | 40           |  |  |  |
| Bucket rollback @ boom carry position      | (°)  | 44     | 50    | 46     | 51    | 53           |  |  |  |
| Bucket dump @ maximum boom height          | (°)  | 55     | 45    | 51     | 40    | 57           |  |  |  |
| Machine operating weight (L3 tyres)        | (kg) | 11098  | 11303 | 11192  | 11431 | 11564        |  |  |  |

| LOADER PERFORMANCE                       |        |        |      |            |      |              |  |  |
|--|--------|--------|------|------------|------|--------------|--|--|
|  |        | Z-bar  |      | Long Reach |      | Tool Carrier |  |  |
| Bucket mount (with bolt-on cutting edge) |        | Direct | QC   | Direct     | QC   | B.O.E.       |  |  |
| Bucket payload                           | (kg)   | 3837   | 3677 | 3301       | 3123 | 3118         |  |  |
| Maximum material density                 | (t/m³) | 1.85   | 2.10 | 1.76       | 1.76 | 1.78         |  |  |
| Tipping load straight                    | (kg)   | 8758   | 8418 | 7560       | 7184 | 7161         |  |  |
| Tipping load full turn                   | (kg)   | 7673   | 7354 | 6601       | 6246 | 6235         |  |  |
| Bucket break-out force                   | (daN)  | 7455   | 7155 | 7976       | 6883 | 7899         |  |  |
| Loader speed                             |        |        |      |            |      |              |  |  |
| Lift (full load)                         | (sec)  | 5.4    | 5.4  | 5.4        | 5.4  | 5.4          |  |  |
| Dump (full load)                         | (sec)  | 1.2    | 1.2  | 2.4        | 2.4  | 2.4          |  |  |
| Lowering (empty power down)              | (sec)  | 3.9    | 3.9  | 3.9        | 3.9  | 3.9          |  |  |
| Lowering (empty float down)              | (sec)  | 3.9    | 3.9  | 3.9        | 3.9  | 3.9          |  |  |





| DIMENSIONS                                 |      | WI30D  |                |        |       |              |  |  |  |
|--|------|--------|----------------|--------|-------|--------------|--|--|--|
|  |      | Z-     | oar Long Reach |        |       | Tool Carrier |  |  |  |
| Bucket mount (with bolt-on cutting edge)   |      | Direct | QC             | Direct | QC    | B.O.E.       |  |  |  |
| Std GP Bucket Rated Capacity               | (m³) | 2.3    | 2              | 2.3    | 2     | 2            |  |  |  |
| Bucket Capacity at 110% Fill Factor        | (m³) | 2.5    | 2.2            | 2.5    | 2.2   | 2.2          |  |  |  |
| Bucket overall width                       | (mm) | 2497   | 2497           | 2497   | 2497  | 2497         |  |  |  |
| Bucket weight                              | (kg) | 924    | 1377           | 924    | 1377  | 1256         |  |  |  |
| A - Dump height at 45° @ full boom height  | (mm) | 2745   | 2697           | 3273   | 3216  | 2572         |  |  |  |
| B - Bucket hinge pin height                | (mm) | 3833   | 3832           | 4258   | 4256  | 3960         |  |  |  |
| C - Overall height                         | (mm) | 5044   | 505 I          | 5469   | 5476  | 5233         |  |  |  |
| D - Bucket reach at full boom height       | (mm) | 1073   | 1104           | 1074   | 1213  | 1105         |  |  |  |
| E - Digging depth                          | (mm) | 86     | 87             | 90     | 92    | 180          |  |  |  |
| F - Wheelbase                              | (mm) | 2900   | 2900           | 2900   | 2900  | 2900         |  |  |  |
| G - Ground clearance                       | (mm) | 389    | 389            | 389    | 389   | 389          |  |  |  |
| H - Cab roof height                        | (mm) | 3384   | 3384           | 3384   | 3384  | 3384         |  |  |  |
| L - Overall length on ground (with bucket) | (mm) | 7469   | 7524           | 7877   | 7935  | 7777         |  |  |  |
| Overall length on ground (w/o bucket)      | (mm) | 6280   | 6280           | 6690   | 6690  | 6200         |  |  |  |
| W - Overall vehicle width (without bucket) | (mm) | 2478   | 2478           | 2478   | 2478  | 2478         |  |  |  |
| Departure angle                            | (°)  | 25     | 25             | 25     | 25    | 25           |  |  |  |
| RI - Turning radius (at outer wheel)       | (mm) | 5223   | 5223           | 5223   | 5223  | 5223         |  |  |  |
| Turning radius (at bucket corner)          | (mm) | 5758   | 5744           | 5961   | 5940  | 5725         |  |  |  |
| Full steering angle                        | (°)  | 40     | 40             | 40     | 40    | 40           |  |  |  |
| Bucket rollback @ boom carry position      | (°)  | 45     | 50             | 46     | 51    | 59           |  |  |  |
| Bucket dump @ maximum boom height          | (°)  | 51     | 41             | 46     | 35    | 50           |  |  |  |
| Machine operating weight (L3 tyres)        | (kg) | 12878  | 13330          | 13059  | 13512 | 13376        |  |  |  |

| LOADER PERFORMANCE                       |        |        |       |            |      |              |  |
|--|--------|--------|-------|------------|------|--------------|--|
|  |        | Z-bar  |       | Long Reach |      | Tool Carrier |  |
| Bucket mount (with bolt-on cutting edge) |        | Direct | QC    | Direct     | QC   | B.O.E.       |  |
| Bucket payload                           | (kg)   | 4724   | 4369  | 3960       | 3624 | 3806         |  |
| Maximum material density                 | (t/m³) | 2.01   | 2.15  | 1.7        | 1.8  | 1.88         |  |
| Tipping load straight                    | (kg)   | 10662  | 10134 | 8957       | 8464 | 8826         |  |
| Tipping load full turn                   | (kg)   | 9248   | 8737  | 7729       | 7249 | 7613         |  |
| Bucket break-out force                   | (daN)  | 9907   | 9268  | 11672      | 9295 | 10242        |  |
| Loader speed                             |        |        |       |            |      |              |  |
| Lift (full load)                         | (sec)  | 6.3    | 6.3   | 6.3        | 6.3  | 6.5          |  |
| Dump (full load)                         | (sec)  | 1.2    | 1.2   | 1.2        | 1.2  | 2.4          |  |
| Lowering (empty power down)              | (sec)  | 4.4    | 4.4   | 4.4        | 4.4  | 3.9          |  |
| Lowering (empty float down)              | (sec)  | 4.8    | 4.8   | 4.8        | 4.8  | 4.8          |  |





| DIMENSIONS                                 |                   | W150D  |       |        |       |              |
|--|-------------------|--------|-------|--------|-------|--------------|
|  |                   | Z-     | bar   | Long   | Reach | Tool Carrier |
| Bucket mount (with bolt-on cutting edge)   |                   | Direct | QC    | Direct | QC    | B.O.E.       |
| Std GP Bucket Rated Capacity               | (m³)              | 2.3    | 2     | 2.3    | 2     | 2            |
| Bucket Capacity at 110% Fill Factor        | (m <sup>3</sup> ) | 2.5    | 2.2   | 2.5    | 2.2   | 2.2          |
| Bucket overall width                       | (mm)              | 2497   | 2497  | 2497   | 2497  | 2497         |
| Bucket weight                              | (kg)              | 924    | 1377  | 924    | 1377  | 1256         |
| A - Dump height at 45° @ full boom height  | (mm)              | 2850   | 2860  | 3331   | 3386  | 2569         |
| B - Bucket hinge pin height                | (mm)              | 3938   | 3936  | 4363   | 4361  | 3956         |
| C - Overall height                         | (mm)              | 5149   | 5156  | 5574   | 5580  | 5230         |
| D - Bucket reach at full boom height       | (mm)              | 953    | 1053  | 993    | 1128  | 1105         |
| E - Digging depth                          | (mm)              | 62     | 64    | 61     | 62    | 183          |
| F - Wheelbase                              | (mm)              | 2900   | 2900  | 2900   | 2900  | 2900         |
| G - Ground clearance                       | (mm)              | 389    | 389   | 389    | 389   | 389          |
| H - Cab roof height                        | (mm)              | 3384   | 3384  | 3384   | 3384  | 3384         |
| L - Overall length on ground (with bucket) | (mm)              | 7472   | 7530  | 7880   | 7938  | 7780         |
| Overall length on ground (w/o bucket)      | (mm)              | 6280   | 6280  | 6690   | 6690  | 6200         |
| W - Overall vehicle width (without bucket) | (mm)              | 2478   | 2478  | 2478   | 2478  | 2478         |
| Departure angle                            | (°)               | 25     | 25    | 25     | 25    | 25           |
| RI - Turning radius (at outer wheel)       | (mm)              | 5223   | 5223  | 5223   | 5223  | 5223         |
| Turning radius (at bucket corner)          | (mm)              | 5758   | 5744  | 5961   | 5940  | 5725         |
| Full steering angle                        | (°)               | 40     | 40    | 40     | 40    | 40           |
| Bucket rollback @ boom carry position      | (°)               | 45     | 50    | 45     | 51    | 59           |
| Bucket dump @ maximum boom height          | (°)               | 47     | 37    | 41     | 31    | 50           |
| Machine operating weight (L3 tyres)        | (kg)              | 14062  | 14515 | 12980  | 14696 | 14446        |

| LOADER PERFORMANCE                       |        |        |       |            |      |              |  |  |  |
|--|--------|--------|-------|------------|------|--------------|--|--|--|
|  |        | Z-bar  |       | Long Reach |      | Tool Carrier |  |  |  |
| Bucket mount (with bolt-on cutting edge) |        | Direct | QC    | Direct     | QC   | B.O.E.       |  |  |  |
| Bucket payload                           | (kg)   | 5170   | 4908  | 4340       | 4095 | 4234         |  |  |  |
| Maximum material density                 | (t/m³) | 2.25   | 2.4   | 1.89       | 1.8  | 2.1          |  |  |  |
| Tipping load straight                    | (kg)   | 11943  | 11400 | 10171      | 9568 | 9740         |  |  |  |
| Tipping load full turn                   | (kg)   | 10340  | 9816  | 8680       | 8189 | 8467         |  |  |  |
| Bucket break-out force                   | (daN)  | 9909   | 9265  | 10188      | 9290 | 10242        |  |  |  |
| Loader speed                             |        |        |       |            |      |              |  |  |  |
| Lift (full load)                         | (sec)  | 5.5    | 5.5   | 5.5        | 5.5  | 6.5          |  |  |  |
| Dump (full load)                         | (sec)  | 1.1    | 1.1   | 1.1        | 1.1  | 2.4          |  |  |  |
| Lowering (empty power down)              | (sec)  | 4.4    | 4.4   | 4.4        | 4.4  | 3.9          |  |  |  |
| Lowering (empty float down)              | (sec)  | 4.3    | 4.3   | 4.3        | 4.3  | 4.2          |  |  |  |





| DIMENSIONS                                 |      | W170D  |       |        |       |              |
|--|------|--------|-------|--------|-------|--------------|
|  |      | Z-bar  |       | Long   | Reach | Tool Carrier |
| Bucket mount (with bolt-on cutting edge)   |      | Direct | QC    | Direct | QC    | B.O.E.       |
| Std GP Bucket Rated Capacity               | (m³) | 2.7    | 2.7   | 2.7    | 2.5   | 2.7          |
| Bucket Capacity at 110% Fill Factor        | (m³) | 3      | 3     | 3      | 2.7   | 3            |
| Bucket overall width                       | (mm) | 2712   | 2712  | 2712   | 2494  | 2712         |
| Bucket weight                              | (kg) | 1221   | 1745  | 1221   | 1155  | 1682         |
| A - Dump height at 45° @ full boom height  | (mm) | 3031   | 2839  | 3429   | 3429  | 2796         |
| B - Bucket hinge pin height                | (mm) | 4079   | 4078  | 4477   | 4477  | 4154         |
| C - Overall height                         | (mm) | 5429   | 5452  | 5827   | 5827  | 5504         |
| D - Bucket reach at full boom height       | (mm) | 1015   | 1062  | 990    | 990   | 1162         |
| E - Digging depth                          | (mm) | 52     | 41    | 48     | 48    | 123          |
| F - Wheelbase                              | (mm) | 3253   | 3253  | 3253   | 3253  | 3550         |
| G - Ground clearance                       | (mm) | 384    | 384   | 384    | 384   | 437          |
| H - Cab roof height                        | (mm) | 3378   | 3378  | 3378   | 3378  | 3577         |
| L - Overall length on ground (with bucket) | (mm) | 7661   | 7841  | 8019   | 8019  | 7998         |
| Overall length on ground (w/o bucket)      | (mm) | 6530   | 6530  | 6850   | 6850  | 5750         |
| W - Overall vehicle width (without bucket) | (mm) | 2558   | 2558  | 2558   | 2558  | 2978         |
| Departure angle                            | (°)  | 29     | 29    | 29     | 29    | 29           |
| RI - Turning radius (at outer wheel)       | (mm) | 5748   | 5748  | 5748   | 5748  | 5748         |
| Turning radius (at bucket corner)          | (mm) | 6324   | 6405  | 6495   | 6398  | 6396         |
| Full steering angle                        | (°)  | 40     | 40    | 40     | 40    | 40           |
| Bucket rollback @ boom carry position      | (°)  | 44     | 38    | 43     | 43    | 47           |
| Bucket dump @ maximum boom height          | (°)  | 47     | 48    | 47     | 47    | 61           |
| Machine operating weight (L3 tyres)        | (kg) | 15642  | 16166 | 15845  | 15779 | 15911        |

| LOADER PERFORMANCE                       |        |           |       |            |       |              |  |  |  |
|--|--------|-----------|-------|------------|-------|--------------|--|--|--|
|  |        | Z-bar     |       | Long Reach |       | Tool Carrier |  |  |  |
| Bucket mount (with bolt-on cutting edge) |        | Direct QC |       | Direct     | QC    | B.O.E.       |  |  |  |
| Bucket payload                           | (kg)   | 5734      | 4994  | 4825       | 4860  | 4340         |  |  |  |
| Maximum material density                 | (t/m³) | 2.01      | 1.85  | 1.77       | 1.9   | 1.6          |  |  |  |
| Tipping load straight                    | (kg)   | 13686     | 12003 | 11542      | 11612 | 10446        |  |  |  |
| Tipping load full turn                   | (kg)   | 11467     | 9988  | 9651       | 9721  | 8679         |  |  |  |
| Bucket break-out force                   | (daN)  | 14321     | 11889 | 14277      | 14315 | 11718        |  |  |  |
| Loader speed                             |        |           |       |            |       |              |  |  |  |
| Lift (full load)                         | (sec)  | 5.2       | 5.2   | 5.2        | 5.2   | 5.2          |  |  |  |
| Dump (full load)                         | (sec)  | 1.2       | 1.2   | 1.2        | 1.2   | 1.3          |  |  |  |
| Lowering (empty power down)              | (sec)  | 2.5       | 2.5   | 2.5        | 2.5   | 2.5          |  |  |  |
| Lowering (empty float down)              | (sec)  | 2.4       | 2.4   | 2.4        | 2.4   | 2.4          |  |  |  |





| DIMENSIONS                                 |                   |        | W190D |        |       |  |  |
|--|-------------------|--------|-------|--------|-------|--|--|
|  |                   | Z-     | bar   | Long   | Reach |  |  |
| Bucket mount (with bolt-on cutting edge)   |                   | Direct | QC    | Direct | QC    |  |  |
| Std GP Bucket Rated Capacity               | (m <sup>3</sup> ) | 3.4    | 3.2   | 3.2    | 3.2   |  |  |
| Bucket Capacity at 110% Fill Factor        | (m <sup>3</sup> ) | 3.7    | 3.5   | 3.5    | 3.5   |  |  |
| Bucket overall width                       | (mm)              | 2946   | 2983  | 2946   | 2946  |  |  |
| Bucket weight                              | (kg)              | 1568   | 2638  | 1539   | 2638  |  |  |
| A - Dump height at 45° @ full boom height  | (mm)              | 2932   | 2727  | 3394   | 3172  |  |  |
| B - Bucket hinge pin height                | (mm)              | 4120   | 4116  | 4561   | 4558  |  |  |
| C - Overall height                         | (mm)              | 5483   | 5990  | 5890   | 6031  |  |  |
| D - Bucket reach at full boom height       | (mm)              | 1166   | 1184  | 1253   | 1303  |  |  |
| E - Digging depth                          | (mm)              | 74     | 77    | 141    | 144   |  |  |
| F - Wheelbase                              | (mm)              | 3340   | 3340  | 3340   | 3340  |  |  |
| G - Ground clearance                       | (mm)              | 390    | 390   | 390    | 390   |  |  |
| H - Cab roof height                        | (mm)              | 3380   | 3380  | 3380   | 3380  |  |  |
| L - Overall length on ground (with bucket) | (mm)              | 8082   | 8261  | 8535   | 8746  |  |  |
| Overall length on ground (w/o bucket)      | (mm)              | 6780   | 6780  | 7240   | 7240  |  |  |
| W - Overall vehicle width (without bucket) | (mm)              | 2480   | 2480  | 2480   | 2480  |  |  |
| Departure angle                            | (°)               | 29     | 29    | 29     | 29    |  |  |
| RI - Turning radius (at outer wheel)       | (mm)              | 6030   | 6030  | 6030   | 6030  |  |  |
| Turning radius (at bucket corner)          | (mm)              | 6629   | 6685  | 6868   | 6945  |  |  |
| Full steering angle                        | (°)               | 40     | 40    | 40     | 40    |  |  |
| Bucket rollback @ boom carry position      | (°)               | 45     | 44    | 43     | 43    |  |  |
| Bucket dump @ maximum boom height          | (°)               | 55     | 51    | 49     | 45    |  |  |
| Machine operating weight (L3 tyres)        | (kg)              | 18329  | 19397 | 18556  | 19665 |  |  |

| LOADER PERFORMANCE                       |        |        |       |            |       |  |  |  |  |  |
|--|--------|--------|-------|------------|-------|--|--|--|--|--|
|  |        | Z-     | bar   | Long Reach |       |  |  |  |  |  |
| Bucket mount (with bolt-on cutting edge) |        | Direct | QC    | Direct     | QC    |  |  |  |  |  |
| Bucket payload                           | (kg)   | 6236   | 5443  | 4997       | 4281  |  |  |  |  |  |
| Maximum material density                 | (t/m³) | 1.87   | 1.7   | 1.58       | 1.4   |  |  |  |  |  |
| Tipping load straight                    | (kg)   | 14880  | 13162 | 11941      | 10420 |  |  |  |  |  |
| Tipping load full turn                   | (kg)   | 12472  | 10886 | 9944       | 8561  |  |  |  |  |  |
| Bucket break-out force                   | (daN)  | 14752  | 12563 | 15395      | 12797 |  |  |  |  |  |
| Loader speed                             |        |        |       |            |       |  |  |  |  |  |
| Lift (full load)                         | (sec)  | 6.2    | 6.2   | 6.2        | 6.2   |  |  |  |  |  |
| Dump (full load)                         | (sec)  | 1.2    | 1.2   | 1.2        | 1.2   |  |  |  |  |  |
| Lowering (empty power down)              | (sec)  | 2.9    | 2.9   | 2.9        | 2.9   |  |  |  |  |  |
| Lowering (empty float down)              | (sec)  | 2.5    | 2.5   | 2.5        | 2.5   |  |  |  |  |  |

| Dapkerman         Op         4.5         6.7         6  |                                       |                    | WII0 D   | W130 D                | W150 D                           | W170 D  | W190 D          |  |  |  |
|---|---------------------------------------|--------------------|--|-----------------------|----------------------------------|---|-----------------|--|--|--|
| PTT Inductal engineNEF NGNEF NGNEF NGNEF NGCylinders()4.56.76.76.76.7Cylinders()4.466666ApterisionTarbehotzgrey with strast accountsTarbehotzgrey with strast accounts7No EGR Vale is used()Ohly Freth at is taken for combusion and no excra coding system is neededNoAfter Taratson System() <t< td=""><td>SPECIFICATIONS</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   | SPECIFICATIONS                        |                    |  |                       |                                  |   |                 |  |  |  |
| Dapkersen         Op         4.5         6.7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7  | ENGINE                                |                    |  |                       |                                  |   |                 |  |  |  |
| Deplement         Op         4.5         6.7         6.7         6.7         6.7         6.7           Appraton         Turbotinger with all stocar accoling.           Ader Taxtment System in tables for constration and no accoling.         Common Nal Multiple Injection         Ader Taxtment accoling.         Turbotinger with all stocar accoling.           Max power         Mol (Q)   | FPT Industrial engine                 |                    | NEF N45  | NEF N67               | NEF N67                          | NEF N67                                       | NEF N67         |  |  |  |
| Cyinders(4)(6)(6)(6)(6)AlgeirationTurbeionizer voltage values in usedTurbeionizer voltage values in usedInteresting val   | 5                                     | (I)                |  |                       |                                  |   |                 |  |  |  |
| AppindomTurbacharger with airto air colling.AppindomConversity firsh air is taken for constration and no extra colling system is readerNet GR with site airto air colling.Conversity firsh air is taken for constration and no extra colling system is readerMar powerMoffqCVP1006/142 (B)Taken for constration and no extra colling system is readerMar powerMoffqCVP1006/142 (B)Taken for constration and no extra colling system is readerMar powerMoffqCVP1006/142 (B)700 (B000pm114 (S) 103 (D)TAMESISSIONPowerShift P3Verse Shift P3 speeds "Ecoshift"Torpac converser with<br>reader and poporation description depending description description depending description description depending description description description description description description description description d  | •                                     | (.)                |  |                       |                                  |   |                 |  |  |  |
| No EGR with used<br>injectionOnly fresh air is taken for combasion and over a confergiven is needed<br>Common Path Mulpipe Instrume.<br>No EGR with Path Sec R 2 (DOC + SC Re)<br>1281/72 @No EGR with No EGR with Path Sec R 2 (DOC + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC Re)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with Path Sec R 2 (DOC) + SC RE)<br>1280/72 @No EGR with  | •                                     |                    |  |                       |                                  |   |                 |  |  |  |
| Impletion         Common Rall Multiple Injection         Histopa           Adve Trastmer System         Histopa         Histopa         Histopa           Emission lead         Complant with EU Stage V         1292/12 (gr. R)  | •                                     |                    | 5  |                       |                                  |   |                 |  |  |  |
| Ade: Tossions levelIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| Complant with EU Sage VMax powerWMrkCVI106/147 (2)128/179 (2)1128/179 (2)1  | •                                     |                    |  |                       |                                  |   |                 |  |  |  |
| Max power         IMMECVI<br>[800 pm]         IZ2 / IZ @<br>[800 pm]         IZ @ IZ @<br>[800 pm] <thiz @="" @<br="" iz="">[800 pm]         IZ @ IZ @<br/>[80</thiz>  | •                                     |                    |  |                       |                                  |   |                 |  |  |  |
| Inde Dorm         (Honor)   |                                       |                    | 106/142 @  |                       |                                  |   | 172/230 @       |  |  |  |
| TRANSMISSION<br>GarboxPowerShift W<br>speedsPowerShift W<br>PowerShift WPowerShift W<br>PowerShift WPowerShift W<br>Torque coverrer<br>Power inch proportion diggettime for adding on Data generating<br>Power inch proportion diggettime for adding  | Max power                             | [kVV/hp(CV)]       | 1800rpm  | 1800rpm               | 1800rpm                          | 2000rpm                                       | 1800rpm         |  |  |  |
| Garbox         PowerShift <sup>™</sup> 4<br>speeds         PowerShift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds" Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds" Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds" Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds" Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds" Ecoshift <sup>™</sup> 5 speeds "Ecoshift <sup>™</sup> 5 speeds | Max torque                            | (Nm)               | 608 @ 1600rpm  | 730 @ 1600rpm         | 730 @ 1600rpm                    | 950 @ 1300rpm                                 | 1184 @ 1300rpn  |  |  |  |
| Galarox         speeds         rower and r         rower and r </td <td>TRANSMISSION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | TRANSMISSION                          |                    |  |                       |                                  |   |                 |  |  |  |
| Type of purpleType  | Gearbox                               |                    |  |                       | PowerShift™ 5 speeds "Ecoshift"* |   |                 |  |  |  |
| Clutch         Torque converted   |                                       |                    | speeds   |                       |                                  | •   |                 |  |  |  |
| Forward(bm/h)6-11-22.367-13-20-31-457-13-20-31-457-13-20-31-457-13-19-30-40 $\xi \pm 11-17-20$ Reverse(bm/h)64-12-237-14-327-14-327-14-327-14-327-14-327-12-30Reverse(bm/h)64-12-237-14-327-14-327-14-328-14-317-12-20Reverse(bm/h)(f)7778-14-317-12-20Martin LongThe second long(f)77714-327-14-327-14-32Standard ZF axles(f)Limited slip<br>afferen data front<br>and proper ground<br>on slippery ground<br>on slippery ground<br>and proper ground<br>and group and slippery ground<br>and proper ground<br>and proper ground<br>and group and slippery ground<br>and group and slipper group and grou   | Clutch                                |                    | Torque converter   | - Auton               | natic lock-up engagen            | nent from 2nd up to                           | 5th gear        |  |  |  |
| Reverse         (m/h)         6.4-12-23         7.14-32         7.14-32         8.14-31         7.12-26           AXLES AND DIFFERENTIAL<br>Rar axie tool socillation         (*)         -         24         8.14-31         7.12-26           Rar axie tool socillation         (*)         -         100% locking from: different di  | -                                     |                    |  |                       |                                  |   | <b>.</b> .      |  |  |  |
| AXLES AND DIFFERENTIAL         C           Rear axie total oscillation         (*)         24           Heavy duty ZF axies         -         100% locking from:<br>diff with open rear         Choice of LSD from & rear, 100% locking from with rear LSD           Standard ZF axies         -<   |                                       | . ,                |  |                       |                                  |   | 6.6-11-17-26-40 |  |  |  |
| Rear axie torial oscillation(*)U24Heavy dury ZF axles-100% locking from<br>with open rear100% locking from with rear LSD<br>rear L0D% locking from with rear LSDStandard ZF axlesLinited signed<br>practive effort<br>on silppery groundTYRESStandard Yre size17.SR2520.SR2520.SR2520.SR2520.SR2523.SR25BRAKESBrake dis area(m*)0.390.390.390.390.390.39Parking brakeCm1030.390.390.390.390.39Parking brake brake areaCm0.390.390.390.390.39Parking dis brake areaCm0.390.390.390.390.39Parking dis brake brake areaCm0.390.390.390.39Parking dis brake brake areaCm0.390.390.390.39Parking dis brake brake areaCm0.390.390.390.39Parking dis brake brake areaCm0.390.390.390.39Parking dis brake brake areaCm1030.390.390.39Parking dis brake brake areaCm1031030.390.39Parking dis brake brake areaCm103103103103Parking dis brake brake areaCm10310410410  |                                       | (km/h)             | 6.4-12-23  | 7-14-32               | 7-14-32                          | 8-14-31                                       | 7-12-28         |  |  |  |
| Heavy duty ZF axles         -         100% locking front         Choice of LSD rot. & rear, 100% locking front with rear, LSD with rear,  |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| The My Duly 2P axies  | Rear axle total oscillation           | (°)                |  |                       | 24                               |   |                 |  |  |  |
| Jamin Wait Open Year         Teal, You and large role with Year ESD           Standard ZF axles         Linited stip<br>and free roles is proper<br>on slippery ground<br>on slippery ground<br>on slippery ground         -  | Heavy duty ZF axles                   |                    | _  |                       |                                  |   |                 |  |  |  |
| Sandard ZF axlesdifferentials from<br>at tractive effort<br>attractive effort<br>tractive effort<br>tractive effort<br>tractive effortTYRESIISondard tyres izeIISondard tyres ize20.SR25  |                                       |                    |  | diff with open rear   | rear, 100                        | % locking front with                          | rear LSD        |  |  |  |
| TYRES         Image: Constraint of the state of th   | Standard ZF axles                     |                    | differentials front<br>and rear 73%<br>tractive effort                             | _                     | _                                | _   | _               |  |  |  |
| BRAKESImage: space disc area a (m*)/hub (0.39 $0.39$  | TYRES                                 |                    | 11 / 0   |                       |                                  |   |                 |  |  |  |
| BRAKESImage of the state of the  | Standard tyre size                    |                    | 17.5R25  | 20.5R25               | 20.5R25                          | 20.5R25                                       | 23.5R25         |  |  |  |
| Service brake(m²/h0k)0.390.360.360.360.360  |                                       |                    |  |                       | 20101120                         | 20101120                                      | 20101120        |  |  |  |
| Brake disc area(m²/hub)0.390.390.390.390.390.39Parking disc brake area(cm²)S8S8S8S282HYDRAULICS(cm²)Rexroth Closed-centre, Load sensing hydraulic systemRexroth Closed-centre, Load sensing hydraulic system8ValvesThe steering orbitror Hydraulically is actuated with priority valveAutomatic functionsBucket Return-to-dig. Boom Return-to-travel. Boom Auto-lift, Parallel liftControl typeSingle variable displacement pumpIst actuated with priority valveTandem variable displacement pumpType of pump(I/min)134169190206236Max flow(I/min)134169190206236Max flow(I/min)134169190206236Colling system(i)189248248246288AdBlue tank, permanently heated by engine coolant(i)11414311311313Gooling system(i)1213131313Hydraulic oit tank(i)1927273434CAB PROTECTION(i)1927273434Cost or system oil(ii)1921420424668AdBlue tank, permanently heated by engine coolant(ii)1927273434Coll by data system(iii)114148148180180Fron and Raar Adels(iii)19<  |                                       |                    |  | Maintenance free      | self-adjusting wet 4-            | wheel disc brakes                             |                 |  |  |  |
| Parking brakeMWith the negutive brake all four where are automatically stopped when the ergine is stoppedParking disc brake area(cm)58588282HYDRAULICS858828282ValvesExercing or Minor Using and the priority value with 3 sectorsSectorsName with 3 sectorsName with 3 sectorsSteeringImage or Minor Using and the priority valueFlot with propriority or Using and the priority valueName with 3 sectorsName with 3 sectorsControl typeImage or Minor Using and the priority valueFlot with propriority als of the priority valueName with 3 sectorsName with 3 sectorsType of pumpImage or Minor Using and the priority valueSingle valueName with 2 sectorsName with 3 sectorsName with 3 sectorsAusting Max pressure(furini)1341691902062000 priority26 @ 2000 priority26  |                                       | (m²/hub)           | 0 39   |                       |                                  |   | 0 39            |  |  |  |
| Parking disc brake area(cm <sup>3</sup> )585858828282HYDRAULCSImage: Constraint of the section of the sec  |                                       | ( /1100)           |  |                       |                                  |   |                 |  |  |  |
| HYDRAULICSImage: Control Probability of the contr  | U U U U U U U U U U U U U U U U U U U | (cm <sup>2</sup> ) | -  |                       |                                  |   | •               |  |  |  |
| ValuesRexroth Closed-centre, Load sensing hydraulic system<br>Main value with 3 sectionsValuesThe stering orbitrol hydraulically is actuated with priority valueAutomatic functionsBucket Return-to-dig.Boom Return-to-travel.Boom Auto-lift, Parallel liftControl typePilot with proportional solenoid values controlled by electro-hydraulic single joystick or single-az<br>leversType of pump(i/min)13 @ 2000rpm169 @ 2000rpmAutomatic functionsIf a @ 2000rpmAutomatic functions(i/min)Automatic functionsIf a @ 2000rpmAutomatic functions(i/min)13 @ 2000rpm169 @ 2000rpmAutomatic functions(i/min)Automatic functions(i/min)Function functions(i/min)Autom  | -                                     | (cm)               | 50   | 50                    | 50                               | 02  | 02              |  |  |  |
| Automatic functionsBucket Return-to-travel, Boom Return-to-travel, Boom Auto-Iift, Parallel IiftControl typePilot with proportional solenoid valves controlled by electro-hydraulic single jostick or single-axilevers<br>leversTandem variable displacement pump<br>206 @ 2000rpmTandem variable displacement pu<br>206 @ 2000rpmZas @ 2000<br>206 @ 200  | Valves                                |                    | Rexroth Closed-centre, Load sensing hydraulic system<br>Main valve with 3 sections |                       |                                  |   |                 |  |  |  |
| Pilot with proportion single operation of all even of all even of single operation of all even of all   | Steering                              |                    | -  | The steering orbitrol | hydraulically is actua           | ted with priority valv                        | e               |  |  |  |
| Control type         Interview         Interview <thinterview< th=""> <thinterview< th="">         &lt;</thinterview<></thinterview<>   | Automatic functions                   |                    | Buck   | et Return-to-dig, Boo | om Return-to-travel,             | Boom Auto-lift, Parall                        | el lift         |  |  |  |
| Type of pump         Tandem variable displacement pump           Type of pump         Tandem variable displacement pump           Type of pump         Tandem variable displacement pump           AUXILIARY HYDRAULIC CIRCUIT         Tandem variable displacement pump           Max flow         (I/min)         134 @ 2000rpm         Total % @ 2000rpm         Tandem variable displacement pump           Max flow         (I/min)         134         169         190         206 @ 2000rpm         236 @ 2000           Max pressure         (bar)         249-255         249-   | Control type                          |                    |  | -                     |                                  |   |                 |  |  |  |
| lybe of pump         (l/min)         134 @ 2000rpm         169 @ 2000rpm         169 @ 2000rpm         206 @ 2000rpm         236 @ 2000rpm           AUX LIARY HYDRAULIC CIRCUIT         Image: Comparison of the comparison comparison of the com  | Control type                          |                    | Cia al a   |                       |                                  | Tendens unstable :                            | -               |  |  |  |
| AUXILIARY HYDRAULIC CIRCUIT         Image: Control of the set of th  | Type of pump                          | (l/min)            | -  |                       |                                  |   |                 |  |  |  |
| Max flow         (I/min)         134         169         190         206         236           Max pressure         (bar)         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         SERVICE CAPACITIES         -         -         -         -         -         -         -         -         -         -         -         -         249-255         249-255         SERVICE CAPACITIES         - <td></td> <td>(///////)</td> <td>134 @ 2000i pili</td> <td>107 @ 2000rpm</td> <td>107 @ 2000ipin</td> <td>200 @ 20001pm</td> <td>230 @ 2000 pm</td>   |                                       | (///////)          | 134 @ 2000i pili   | 107 @ 2000rpm         | 107 @ 2000ipin                   | 200 @ 20001pm                                 | 230 @ 2000 pm   |  |  |  |
| Max pressure         (bar)         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         249-255         Service CAPACITIES           Fuel tank         (i)         189         248         248         246         288         249         246         288         249         246         288         249         249         249         249         217         27         28         30         31         31         31         36         36         28         249         24         24         24         24         24         24         24         24         24         24         24 <td></td> <td>(1/min)</td> <td>124</td> <td>170</td> <td>100</td> <td>207</td> <td>224</td>   |                                       | (1/min)            | 124  | 170                   | 100                              | 207   | 224             |  |  |  |
| SERVICE CAPACITIES         Image: Service capacity ()         189         248         248         248         246         288           AdBlue tank, permanently heated by engine coolant         (i)         113         41.4         41.4  |                                       | . ,                |  |                       |                                  |   |                 |  |  |  |
| Fuel tank       (i)       189       248       248       246       288         AdBlue tank, permanently heated by engine coolar       (i)       41.3   | · ·                                   | (Dar)              | 247-255  | 247-255               | 247-255                          | 247-233                                       | 247-233         |  |  |  |
| AdBlue tank, permanently heated by engine coolart(1)41.341.341.341.341.341.341.3Cooling system(1)2227272830Engine oil(1)1213131313Hydraulic oil tank(1)1213131313Hydraulic system oil(1)114148148180180Front and Rear Axles(1)22 + 2222 + 2222 + 2235 + 3540 + 40Transmission oil(1)1927273434CAB PROTECTION(1)1927273434Protection against falling objects (FOPS)ISO EN3449ISO EN3449100104Protection against roll over (ROPS)IdB(A)]6868686868Outside - LwA (SAE J88 SEP80)[dB(A)]102104104103104VibrationsIdB(A)]102104104103104Vibrations(V)2424242424Batteries(V)2x 12V2x 12V2x 12V2x 12V2x 12V2x 12V2x 12V  |                                       | (1)                | 100  | 249                   | 240                              | 244   | 200             |  |  |  |
| Cooling system       (i)       22       27       27       28       30         Engine oil       (i)       12       13   |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| Engine oil(1)1213131313Hydraulic oil tank(1)5791919191Total hydraulic system oil(1)114148148148180180Front and Rear Axles(1)22 + 2222 + 2222 + 2235 + 3540 + 40Transmission oil(1)1927273434CAB PROTECTION(1)1927273434Protection against falling objects (FOPS)(1)1927273434NOISE AND VIBRATION(1)686868686868Outside - LwA (SAE J88 SEP80)[dB(A)]686868686868Outside - LwA (SAE J88 SEP80)[dB(A)]102104104103104Vibrations(1)242424242424System voltage(V)242424242424Batteries(1)24 12V2 x 12V2 x 12V2 x 12V2 x 12V2 x 12V   |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| Hydraulic oil tank(i) $57$ $91$ $91$ $91$ $91$ $91$ $91$ Total hydraulic system oil(i) $114$ $148$ $148$ $180$ $180$ Front and Rear Axles(i) $22 + 22$ $22 + 22$ $22 + 22$ $35 + 35$ $40 + 40$ Transmission oil(i) $19$ $27$ $27$ $34$ $34$ CAB PROTECTION(i) $19$ $27$ $27$ $34$ $34$ Protection against falling objects (FOPS)(ii) $19$ $27$ $27$ $34$ $34$ NOISE AND VIBRATION(iii) $68$ $68$ $68$ $68$ $68$ $68$ $68$ Outside - LwA (SAE J88 SEP80)(idB(A)] $68$ $68$ $68$ $68$ $68$ $68$ $68$ Outside - LwA (SAE J88 SEP80)(idB(A)] $102$ $104$ $104$ $103$ $104$ Vibrations(idgta) $(V)$ $24$ $24$ $24$ $24$ $24$ $24$ $24$ $24$ $24$ Batteries(V) $24$ $2x$ $12V$ $2x$ $2x$ $12V$ $2x$ $2x$ $12V$ $2x$ $12V$ $2x$ $2x$ $12V$ $2x$ <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| Total hydraulic system oilII  |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| Front and Rear Axles       (i) $22 + 22$ $22 + 22$ $22 + 22$ $35 + 35$ $40 + 40$ Transmission oil       (i)       19       27       27       34       34         CAB PROTECTION       (i)       19       27       27       34       34         Protection against falling objects (FOPS)       ISO EN3449       ISO EN13510       ISO EN13510         NOISE AND VIBRATION       Idex       Idex </td <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | •                                     |                    |  |                       |                                  |   |                 |  |  |  |
| Transmission oil         (i)         19         27         27         34         34           CAB PROTECTION         (i)         19         27         27         34         34           CAB PROTECTION         (i)         19         27         27         34         34           Protection against falling objects (FOPS)          ISO EN3449         ISO EN3449         ISO EN13510           Protection against roll over (ROPS)          Iso EN13510         ISO EN13510         ISO EN13510           NOISE AND VIBRATION         [dB(A)]         68         68         68         68         68           Outside - LwA (SAE J88 SEP80)         [dB(A)]         102         104         104         103         104           Vibrations         [dB(A)]         102         104         104         103         104           Vibrations         [dB(A)]         24 <th2< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th2<>  |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| CAB PROTECTION         Image: Marcine Constraints falling objects (FOPS)         Image: Marcine Constraints falling objects (FOPS   |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| Protection against falling objects (FOPS)         ISO EN3449           Protection against roll over (ROPS)         ISO EN13510           NOISE AND VIBRATION         ISO EN13510           In the cab - LpA (ISO 6595/63744)         [dB(A)]           IdB(A)]         68           Outside - LwA (SAE J88 SEP80)         [dB(A)]           IdB(A)]         102           IOPerator 's seat meets the criteria of ISO 7096:2000<br>The vibrations transmitted do not exceed 0.5m/s <sup>2</sup> ELECTRICAL SYSTEM         V(V)           System voltage         (V)           Atteries         2 x 12V         2 x 12V           2 x 12V         2 x 12V         2 x 12V         2 x 12V  |                                       | (1)                | 19   | 27                    | 27                               | 34  | 34              |  |  |  |
| Protection against roll over (ROPS)         ISO EN13510           NOISE AND VIBRATION         ISO EN13510           In the cab - LpA (ISO 6595/6396/3744)         [dB(A)]         68         68         68         68         68           Outside - LwA (SAE J88 SEP80)         [dB(A)]         102         104         104         103         104           Vibrations         Image: Comparison of the provided on t  |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| NOISE AND VIBRATION         Image: Mark Stress of the   |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| In the cab - LpA (ISO 6595/6396/3744)       [dB(A)]       68       68       68       68       68         Outside - LwA (SAE J88 SEP80)       [dB(A)]       102       104       104       103       104         Vibrations       Image: Comparison of the vibrations       Image: Comparison of the vibration of the   |                                       |                    |  |                       | ISO EN13510                      |   |                 |  |  |  |
| Outside - LwA (SAE J88 SEP80)         [dB(A)]         102         104         104         103         104           Vibrations         Operator 's seat meets the criteria of ISO 7096:2000<br>The vibrations transmitted do not exceed 0.5m/s <sup>2</sup> Image: Comparison of the vibration of the vibr  |                                       | E ID (A)S          | (0   | (0                    | (0                               | (0  | (0              |  |  |  |
| VibrationsOperator 's seat meets the criteria of ISO 7096:2000<br>The vibrations transmitted do not exceed 0.5m/s²ELECTRICAL SYSTEMVibrations transmitted do not exceed 0.5m/s²System voltage(V)2424242424Batteries2 x 12V2 x 12V2 x 12V2 x 12V2 x 12V2 x 12V   |                                       |                    |  |                       |                                  |   |                 |  |  |  |
| ELECTRICAL SYSTEMImage: Constraint of the vibrations transmitted do not exceed 0.5m/s²System voltage(V)2424242424Batteries2 x 12V2 x 12V2 x 12V2 x 12V2 x 12V2 x 12V  | Outside - LwA (SAE J88 SEP80)         | [dB(A)]            |  |                       |                                  |   |                 |  |  |  |
| ELECTRICAL SYSTEM         Image: Constraint of the system voltage         (V)         24   | Vibrations                            |                    |  | Operator 's seat      | t meets the criteria o           | f ISO 7096:2000<br>exceed 0 5m/s <sup>2</sup> |                 |  |  |  |
| System voltage         (V)         24   | ELECTRICAL EVETEM                     |                    |  |                       |                                  |   |                 |  |  |  |
| Batteries         2 x 12V   |                                       |                    | 24   | 24                    | 24                               | 24  | 24              |  |  |  |
|   |                                       | (V)                |  |                       |                                  |   |                 |  |  |  |
| Alternator - capacity (Amps) 70 120 120 120 120 120   |                                       | /A >               |  |                       |                                  |   |                 |  |  |  |

Not available
 \* PowerShift<sup>™</sup> 4 speeds is an option





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