<table>
<thead>
<tr>
<th></th>
<th>W110C</th>
<th>W130C</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD BUCKET PAYLOAD</td>
<td>3.5 ton</td>
<td>4.4 ton</td>
</tr>
<tr>
<td>BUCKET VOLUME</td>
<td>1.9 - 4 m³</td>
<td>2.1 - 5 m³</td>
</tr>
<tr>
<td>PRODUCTIVITY (50 m distance)</td>
<td>180 t/h</td>
<td>227 t/h</td>
</tr>
<tr>
<td>OPERATING WEIGHT</td>
<td>11 ton</td>
<td>12.5 ton</td>
</tr>
<tr>
<td>MAX POWER</td>
<td>142 hp</td>
<td>172 hp</td>
</tr>
</tbody>
</table>
THE MAIN COMPONENTS OF OUR W

1. **SCR ONLY TECHNOLOGY**

   SCR is a well-proven and reliable technology used on trucks in Europe since 2004. Since this solution does not affect combustion, it delivers more power with less fuel. SCR ONLY technology doesn’t require a particulate filter.

   - AdBlue

2. **THE HEAVY DUTY AXLES WITH 100% FRONT LOCK***

   *optional in alternative to Limited slip differentials
HEELE L OADER

3

THE COOLING BOX

Most wheel loaders mount their radiators back to back. At New Holland we have mounted them to form a cooling module like a box. The benefit is better cooling, in the harshest of environments. In addition, with a programmable reversing fan as standard, cleaning radiators will become a thing of the past.

4

MORE PAYLOAD WITH REAR MOUNTED ENGINE

Rear mounted engine result for you is more material in your bucket. In addition, it allows to use less counterweight. Less dead weight results in less stress on the axles, the brakes and the tyres.
LESS FUEL WITH BETTER COMBUSTION
Engine combustion is optimised for efficiency: it only uses fresh air and occurs at optimum temperature, guaranteeing the best engine output for power and fuel efficiency.

LESS MAINTENANCE WITH NO PARTICULATE FILTER
With our AdBlue technology, we don’t need a particulate filter, so you make significant saving on the maintenance. It also means that the temperature in the engine compartment is lower, which means a longer life for the rubber parts and lower cooling needs than other Tier 4 solutions. The smaller fans in our wheel loaders mean you use less fuel. In addition you do not require a costly specific oil and no other tier 4i solution offer such a high fuel compatibility.

CUT FUEL WASTE WITH ECOSTOP
ECOSTOP automatically shuts down the engine and the electric system after 5 minutes of idling, so there is no waste of fuel.
MORE MATERIAL IN THE BUCKET WITH REAR MOUNTED ENGINE
Rear mounted engine result for you is more payload in your bucket. In addition, it allows to use less counterweight. Less dead weight results in less stress on the axles, the brakes and the tyres.

LESS MAINTENANCE WITH OPEN DIFFERENTIAL
The optional open differentials and front auto-lock reduce tire wear because of no wheel slippage. The absence of friction in the differentials increases oil life by 50%. More effective lubrication with longer lasting effect increases reliability. For a limited investment you can choose the limited slip differentials mounted on heavy duty front axle and rear standard axle.

LESS MAINTENANCE WITH THE COOLING BOX
We designed our cooling system to maximise its efficiency, making a box of the radiators rather than following the traditional approach of having them overlap. Our design significantly improves the cooling performance, lengthening the life of the oil 50%. The better quality of the oil also means a longer life for your wheel loader.
WELCOME ON BOARD

EXTRA WIDE ACCESS
The 4 wide steps and 2 handles make it easy for you to reach the cab; the wide door with no obstacles makes it easy to gain access.

OUTSTANDING VISIBILITY
You can work fast and confidently with excellent all-round visibility, further enhanced by the curved shape of the rear hood, which is very low due to the small cooling package.

SUPERIOR AIR VENTILATION
You can work in comfort with the efficient ventilation ensured by 16 air vents and the optional air conditioning system. In addition, the doors open 180° and can be easily locked in open position or unlocked from the driver’s seat.
OPERATOR SAFETY AND LOW VIBRATIONS
You will enjoy the protection of our reinforced cab, which guarantees protection against roll over (ROPS) and falling objects (FOPS). We placed the engine at the back of the machine, far from the cab, so that you will feel lower vibrations in the cab.

SITTING COMFORTABLY WITH CONTROLS AT YOUR FINGERTIPS
You will enjoy the comfort of the heated seat with high vibration absorption. You can focus entirely on the job at hand and work comfortably with the ergonomic positioning of the control panel under your right hand. The overhead radio positioning and ample storage add up to great convenience for you.

EASY OPERATING
For more comfort and productivity during repetitive activities the following functions, which can be activated or de-activated according to your preferences, will free your right hand for steering:

Auto-lift: automatically lifts the boom to the max height or to the height you have set
Reverse button: allows you to use your left hand for steering and activate reverse speed from the joystick with your right hand
Return to dig: automatically brings back the bucket in the right position for loading again
Return to travel: automatically lowers the boom to carry position; it can be adjusted according to your tyres and bucket
Auto-shift: ensures the machine always operates in the most suitable gear according to speed, kick down and engine braking
Auto-Glide Ride: reduces loader arm bounce during travel, maintaining maximum material retention on all surfaces. It’s activated from 7 km/h
**PRODUCTIVITY**

*(50-METER DISTANCE CYCLE)*

Considering: density: 1.8 t/m³, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break........... 110 m³/h or 180 t/h of material

52 loading cycles/h with standard bucket 2.1 m³ or 3.48 ton

**ENGINE**

Compliant with EPA tier 4i EU regulations

FPT engine F4HFE413J

4 cylinders - 4.5 litres - common rail

Max power SAE J1995 .......................... 106 kW / 142 hp @1800 rpm

Maximum torque SAE J1349 .................. 608 Nm @1600 rpm

Nox emission .................................. 2.88 g/kWh

HC emission .................................. 0.08 g/kWh

CO emission .................................. 2.64 g/kWh

PM emission .................................. 0.013 g/kWh

**TRANSMISSION**

All-wheel drive with planetary axles

kick-down function

4-speed torque converter

4-speed auto Powershift ZF type 4WG130, switchable to manual shifting

ZF, switchable to manual shifting

forward speeds ........................................ 6-11-22-36 Km/h

reverse speeds ...................................... 6.4-12-23 Km/h

Adjustable transmission declutch

**AXLES AND DIFFERENTIAL**

For outstanding traction with 50% longer maintenance intervals and 30% less tire wear

100% auto-lock differential on front axle and open rear axles

Front and rear ZF Heavy Duty axles (options) with Open Differential

type MT-L3065-II

Excellent traction

29% Limited slip differential on front and rear axles

front and rear axle ZF type MT-L3065-II

**HYDRAULICS**

Valves .......... Rexroth Closed-center, Load sensing hydraulic system.

Main valve with 3 sections

Steering .......... The steering orbitrol hydraulically is actuated with priority valve

Type of pump ........................................ Variable displacement pump

(134 l/min @250 bar)

Automatic hydraulic functions

- Bucket Return-to-dig

- Boom Return-to-travel

- Auto lift (to adjustable height)

Control type ........ Pilot control with single joystick or two levers

**CAPACITIES**

Fuel tank ............................................. 189 usable litres

AdBlue tank ....................................... 41.3 usable litres

Cooling system .................................... 22 litres

Engine oil ........................................... 12 litres

Hydraulic oil ...................................... 57 litres, total system: 114 litres

Transmission oil .................................. 19 litres

**CAB AND CONTROLS**

For your safety the cab complies to:

- protection against falling objects (FOPS) ........................ ISO EN3449

- protection against roll over (ROPS) ........................ ISO EN13510

**NOISE AND VIBRATION**

Interior noise ................. 72 dB(A) according to ISO6595/6396/3744

Exterior noise ............. 72 dB(A) at 15 meters as per SAE J88 SEP80

105 dB(A) according to ISO6395/6396/3744

Switchable reverse gear alarm

Vibrations ............................................. air-cushioned seat

**ELECTRICAL SYSTEM**

24V. Batteries 2 x 12V.

Alternator ............................................. 70A
## PERFORMANCE DATA

<table>
<thead>
<tr>
<th>W110C</th>
<th>Z-BAR buckets</th>
<th>LONG REACH buckets</th>
<th>TC buckets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.1 m³</td>
<td>1.7 m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>w/QC bucket</td>
<td>w/QC bucket</td>
<td>w/QC</td>
</tr>
<tr>
<td></td>
<td>edge</td>
<td>edge</td>
<td>edge</td>
</tr>
<tr>
<td></td>
<td>teeth</td>
<td>teeth</td>
<td>teeth</td>
</tr>
<tr>
<td>Bucket volume (heaped) m³</td>
<td>2.07</td>
<td>2.07</td>
<td>1.70</td>
</tr>
<tr>
<td>Bucket Payload kg</td>
<td>3478</td>
<td>3475</td>
<td>3535</td>
</tr>
<tr>
<td>Maximum material density ton/m³</td>
<td>1.7</td>
<td>1.7</td>
<td>2.1</td>
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<tr>
<td>Bucket outside width m</td>
<td>2.49</td>
<td>2.54</td>
<td>2.44</td>
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<tr>
<td>Bucket weight kg</td>
<td>857</td>
<td>877</td>
<td>1137</td>
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<tr>
<td>Tipping load - straight kg</td>
<td>8150</td>
<td>8145</td>
<td>817</td>
</tr>
<tr>
<td>Tipping load - Articulated at 40° kg</td>
<td>6957</td>
<td>6949</td>
<td>7069</td>
</tr>
<tr>
<td>Breakout force kg</td>
<td>7591</td>
<td>7781</td>
<td>7104</td>
</tr>
<tr>
<td>Life capacity from ground kg</td>
<td>8889</td>
<td>8977</td>
<td>10620</td>
</tr>
<tr>
<td>A -</td>
<td>Dump height at 45° at full height m</td>
<td>2.62</td>
<td>2.55</td>
</tr>
<tr>
<td>C -</td>
<td>Overall height m</td>
<td>4.75</td>
<td>4.75</td>
</tr>
<tr>
<td>D -</td>
<td>Bucket reach at full height m</td>
<td>1.12</td>
<td>1.19</td>
</tr>
<tr>
<td>E -</td>
<td>Dig depth cm</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>L -</td>
<td>Overall length with bucket on the ground m</td>
<td>6.83</td>
<td>6.94</td>
</tr>
<tr>
<td>R -</td>
<td>Turning radius to front corner of the bucket m</td>
<td>5.5</td>
<td>5.6</td>
</tr>
<tr>
<td>Bucket rollback in carry position °</td>
<td>43°</td>
<td>43°</td>
<td>48°</td>
</tr>
<tr>
<td>Dump angle at full height °</td>
<td>55°</td>
<td>55°</td>
<td>50°</td>
</tr>
<tr>
<td>Machine operating weight kg</td>
<td>10448</td>
<td>10468</td>
<td>10728</td>
</tr>
</tbody>
</table>
SPECIFICATIONS

PRODUCTIVITY

( 50-METER DISTANCE CYCLE )
Considering: density: 1.8 t/m³, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break.............125 m³/h or 227 t/h of material
52 loading cycles/h with standard bucket 2.4 m³ or 4.37 ton

ENGINE

Compliant with EPA tier 4i EU regulations
FPT engine F4HFE613Z
6 cylinders - 6.7 litres - common rail
Max power SAE J1995 .................. 128 kW / 172 hp @1800 rpm
Maximum torque SAE J1349 ........ 730 Nm @1600 rpm
Nox emission .................................. 3.01 g/kWh
HC emission .................................. 0.03 g/kWh
CO emission .................................. 0.42 g/kWh
PM emission .................................. 0.009 g/kWh

TRANSMISSION

All-wheel drive with planetary axles
4-speed auto Powershift ZF type 02G07135, switchable to manual shifting
Adjustable transmission declutch
forward speeds ........................................7-13-24-39 Km/h
reverse speeds ........................................7-14-25 Km/h
kick-down function

AXLES AND DIFFERENTIAL

- for outstanding traction with 50% longer maintenance intervals and 30% less tire wear:
100% auto-lock differential on front axle and open rear axles
Front and rear ZF heavy duty axles (options) with open differential
Type MT-L3075-II - dynamic load: 12.700kg
- Excellent traction:
29% Limited slip differential on front axle and rear axles
Front heavy duty axle type MT-L3075-II - dynamic load: 12.700kg
Rear oscillating axle .......... ZF type MT-3065-II rear - dynamic load 10.700kg

TYRES

Tyres ........................................... 20.5R25

BRAKES

Service brake........ Maintenance free, self-adjusting wet 4-wheel disc brakes
Area ................................................................. 0.39 m²/hub
Parking brake........ Disc brake on transmission activated from the cab cluster
Area ................................................................. 58 cm²

HYDRAULICS

Valves .......... Rexroth Closed-center, Load sensing hydraulic system.
Main valve with 3 sections
Steering ........ The steering orbitrol hydraulically is actuated with priority valve
Type of pump................................. Tandem Variable displacement pump
(171 l/min @250 bar)
Automatic hydraulic functions
- Bucket Return-to-dig
- Boom Return-to-travel
- Auto lift (to adjustable height)
Control type........ Pilot control with single joystick or two levers

CAPACITIES

Fuel tank ........................................... 248 usable litres
AdBlue tank ...................................... 41.3 usable litres
Cooling system ................................... 26.8 litres
Engine oil .......................................... 15 litres
Hydraulic oil................................. Tank: 91 litres, total system: 148 litres
Transmission oil .................................. 27 litres

CAB AND CONTROLS

For you safety the cab complies to:
protection against falling objects (FOPS)........ ISO EN3449
protection against roll over (ROPS) .......... ISO EN13510

NOISE AND VIBRATION

Driving noise in dB (A) 82 to SAE J88 @ 15 meters
Interior noise......................... 71 dB(A) as per ISO 6595/6396/3744
Exterior noise.............. 72 dB(A) at 15 meters as per SAE J88 SEP80
105 LwA according to ISO6395/6396/3744
Switchable reverse gear alarm
Vibrations ................................. air-cushioned seat MSG 95A/732
average 1.4 m/s² as per ISO/TR 25398:2006

ELECTRICAL SYSTEM

24V. Batteries 2 x 12V.
Alternator .............................................. 65 A
## PERFORMANCE DATA

### W130C

<table>
<thead>
<tr>
<th>Bucket with bolt on:</th>
<th>edge</th>
<th>teeth</th>
<th>edge</th>
<th>teeth</th>
<th>edge</th>
<th>teeth</th>
<th>edge</th>
<th>teeth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket volume (heaped) m³</td>
<td>2.38</td>
<td>2.36</td>
<td>2.00</td>
<td>2.00</td>
<td>2.18</td>
<td>2.14</td>
<td>2.00</td>
<td>2.00</td>
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<tr>
<td>Bucket Payload kg</td>
<td>4371</td>
<td>4367</td>
<td>4519</td>
<td>4570</td>
<td>3707</td>
<td>3704</td>
<td>3708</td>
<td>3757</td>
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<tr>
<td>Maximum material density ton/m³</td>
<td>1.84</td>
<td>1.85</td>
<td>2.26</td>
<td>2.29</td>
<td>1.70</td>
<td>1.73</td>
<td>1.85</td>
<td>1.88</td>
</tr>
<tr>
<td>Bucket outside width m</td>
<td>2.49</td>
<td>2.54</td>
<td>2.49</td>
<td>2.49</td>
<td>2.49</td>
<td>2.54</td>
<td>2.49</td>
<td>2.49</td>
</tr>
<tr>
<td>Bucket weight kg</td>
<td>941</td>
<td>968</td>
<td>1242</td>
<td>1168</td>
<td>890</td>
<td>916</td>
<td>1242</td>
<td>1168</td>
</tr>
<tr>
<td>Tipping load - straight kg</td>
<td>9964</td>
<td>9962</td>
<td>10325</td>
<td>10426</td>
<td>8488</td>
<td>8495</td>
<td>8527</td>
<td>8624</td>
</tr>
<tr>
<td>Tipping load - Articulated at 40° kg</td>
<td>8741</td>
<td>8735</td>
<td>9038</td>
<td>9139</td>
<td>7414</td>
<td>7407</td>
<td>7416</td>
<td>7514</td>
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<tr>
<td>Breakout force kg</td>
<td>9819</td>
<td>10097</td>
<td>9472</td>
<td>9272</td>
<td>11233</td>
<td>11591</td>
<td>9503</td>
<td>9310</td>
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<tr>
<td>Lift capacity from ground kg</td>
<td>9857</td>
<td>9956</td>
<td>13068</td>
<td>13175</td>
<td>11411</td>
<td>11410</td>
<td>11348</td>
<td>11436</td>
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<tr>
<td>A - Dump height at 45° at full height m</td>
<td>2.75</td>
<td>2.68</td>
<td>2.71</td>
<td>2.69</td>
<td>3.24</td>
<td>3.17</td>
<td>3.19</td>
<td>3.18</td>
</tr>
<tr>
<td>C - Overall height m</td>
<td>5.04</td>
<td>5.04</td>
<td>5.05</td>
<td>5.05</td>
<td>5.45</td>
<td>5.45</td>
<td>5.46</td>
<td>5.46</td>
</tr>
<tr>
<td>D - Bucket reach at full height m</td>
<td>1.08</td>
<td>1.16</td>
<td>1.12</td>
<td>1.16</td>
<td>1.01</td>
<td>1.01</td>
<td>1.22</td>
<td>1.25</td>
</tr>
<tr>
<td>E - Dig depth cm</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>10</td>
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<tr>
<td>L - Overall length with bucket on the ground m</td>
<td>7.47</td>
<td>7.57</td>
<td>7.53</td>
<td>7.56</td>
<td>7.75</td>
<td>7.86</td>
<td>7.93</td>
<td>7.97</td>
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<tr>
<td>R - Turning radius to front corner of the bucket m</td>
<td>5.7</td>
<td>5.8</td>
<td>5.7</td>
<td>5.7</td>
<td>5.9</td>
<td>6.0</td>
<td>5.9</td>
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<tr>
<td>Overall length without bucket m</td>
<td>6.28</td>
<td>6.28</td>
<td>6.28</td>
<td>6.28</td>
<td>6.69</td>
<td>6.69</td>
<td>6.69</td>
<td>6.69</td>
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<tr>
<td>Bucket rollback in carry position °</td>
<td>44°</td>
<td>44°</td>
<td>49°</td>
<td>49°</td>
<td>46°</td>
<td>46°</td>
<td>46°</td>
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<tr>
<td>Dump angle at full height °</td>
<td>51°</td>
<td>51°</td>
<td>46°</td>
<td>46°</td>
<td>41°</td>
<td>41°</td>
<td>55°</td>
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<tr>
<td>Machine operating weight kg</td>
<td>12191</td>
<td>12218</td>
<td>12492</td>
<td>12418</td>
<td>12336</td>
<td>12362</td>
<td>12688</td>
<td>12614</td>
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### LOADER SPEED

<table>
<thead>
<tr>
<th></th>
<th>sec</th>
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</thead>
<tbody>
<tr>
<td>Raising time (loaded)</td>
<td>6.3</td>
</tr>
<tr>
<td>Dump time (loaded)</td>
<td>1.2</td>
</tr>
<tr>
<td>Lowering time (empty, power down)</td>
<td>4.4</td>
</tr>
<tr>
<td>Lowering time (empty, float down)</td>
<td>4.8</td>
</tr>
</tbody>
</table>
The New Holland dealer network is, in itself, the best guarantee of continued productivity for the machines it delivers to its customers. New Holland service technicians are fully equipped to resolve all maintenance and repair issues, with each and every service point providing the high standards they are obliged to observe under New Holland's stringent quality guidelines. The New Holland global parts network ensures fast, reliable, replacement parts for less downtime, increased productivity and, of course, profitable operation for its customers.