

W110_c W130_c



	W110C	W130C
STANDARD BUCKET PAYLOAD	3.5 ton	4.4 ton
BUCKET VOLUME	1.9 - 4 m ³	2.1 - 5 m ³
PRODUCTIVITY (50 m DISTANCE)	180 t/h	227 t/h
OPERATING WEIGHT	11 ton	12.5 ton
MAX GROSS POWER	142 hp	172 hp

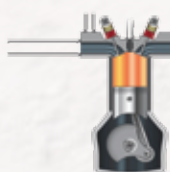


BUILT AROUND YOU

THE MAIN COMPONENTS OF OUR W



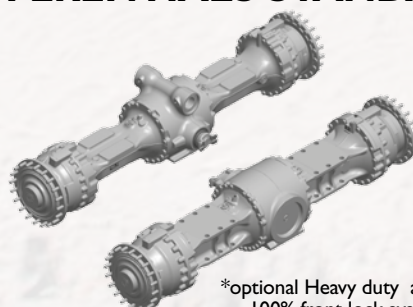
1 SCR ONLY TECHNOLOGY



AdBlue

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.

2 LIMITED SLIP DIFFERENTIALS STANDARD*



*optional Heavy duty axles with 100% front lock available as a factory option

HEEL LOADER



4

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.

PRODUCTIVITY



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 you to use less counterweight. Less dead weight results in less stress on the axles, the brakes and the tyres.

OUTSTANDING TRACTION IN ALL CONDITIONS

New Holland Wheel Loaders include standard limited slip differential on front and rear axles.

This provides outstanding traction in all conditions, especially in non compacted surfaces such as gravel.

LESS MAINTENANCE WITH THE COOLING BOX

We designed the cooling system to maximise efficiency by 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 kept low due to the mid mount positioning of the cooling box.

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 air ride 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

SERVICE PLUS





THE NEW HOLLAND DEALER: YOUR PROFESSIONAL PARTNER

Your success starts with world-class New Holland machinery and attachments. Your New Holland dealer will help you work smarter and faster by selecting equipment that delivers performance and operator comfort. Your dealer has the knowledge and experience necessary to help you choose the right attachments so you can...

- **Work faster and extend equipment life.**
- **Increase machine utilization.**
- **Increase your capabilities.**

Let your New Holland dealer service your machine on the jobsite. You'll be back on the job faster. Advantages include...

- **Responsive job site service to keep your equipment running.**
- **Increase machine uptime.**
- **Certified service staff and improved parts availability.**

PARTS

When you're looking for superior parts options to maximize the performance and lower the operating costs of your New Holland machinery, turn to CNH Original Parts to keep you equipped for success.

CNH Original Parts fit better, install faster and last longer and in an industry where "high impact" and "heavy lifting" are the norm, the smallest mechanical differences can lead to big problems.

CNH Original Parts from New Holland are manufactured from superior materials and specifically designed for New Holland to continually and reliably withstand the punishment of everyday construction. So steer clear of mechanical problems and future breakdowns, by choosing CNH Original Parts from New Holland. They're the only parts that are field-tested and proven to keep your New Holland equipment performing its best.

SERVICE. RELY ON NEW HOLLAND TO DELIVER FOR YOU

Your commitment to your operation is evident every day, but that doesn't minimize the enormous pressure you face to reduce operating costs and improve productivity. So when you're on the job, make sure you have top-notch service and support of New Holland behind you every step of the way. With our factory trained technicians, you can ensure that top-notch service professionals are working on your maintenance needs, so you can focus on your business and the big job challenges ahead, not on the tasks of servicing your equipment.

With your New Holland Service, you get more than mere oil changes. A New Holland Service ensures your New Holland equipment receives a thorough service that meets all requirements of its service schedules and properly maintains it for the day-in, day-out punishment of construction work.

Don't give another thought to time-consuming maintenance tasks. Simply rest easy and make certain that your service needs are taken care of by a New Holland factory trained technician.





When the unexpected occurs, you need to know your equipment is protected. At New Holland we understand the importance of your machinery being in good working order when it counts. Service Plus is designed to help keep your equipment working well beyond the manufacturer's base warranty period while taking away the concerns of the cost and inconvenience of mechanical failure.

WHAT ARE THE ADVANTAGES OF SERVICE PLUS?

PEACE OF MIND

Provides protection beyond the Manufacturer's Base Warranty Period.

FLEXIBLE OPTIONS

Plans can be customised to meet individual needs.

DEPENDABLE SERVICE

Eligible repairs completed by an authorised New Holland Dealership and their trained service technician's using genuine OEM parts & lubricants.

TRANSFERABLE PROTECTION

New Equipment Plans may be transferred to a new owner at no charge

• STANDARD PROTECTION PLAN 3 Year / 5000 Hour

Additional years/hours can be purchased. Please contact your local New Holland dealer for further information.

STANDARD SERVICE PLUS PROTECTION PLAN CONSTRUCTION EQUIPMENT MASTER PARTS SCHEDULE

This plan provides coverage for the components listed below when a failure occurs due to a defect in material or workmanship, and may provide coverage for additional components not listed when the damage is caused by or resulting from a covered failure of a listed component.

PREMIER COMPONENTS COVERED

ENGINE AND ALL INTERNAL LUBRICATED COMPONENTS WITHIN	TRANSMISSIONS/AXLES/HYDROSTATICS	ELECTRICAL	HYDRAULICS
Accessory Gears	Axle Housing	Alternator	Accumulator And Related Relief Valve
Air Intake Hose	Axle Shaft	Gauges	Brake Accumulator
Camshaft	Clutch Discs (Wet Only)	Horn	Brake Pressure Sensor
Camshaft Bearings	Clutch Plates (Wet Only)	Indicators	Brake Pump, Brake Valve
Camshaft Drive Gear	Control Rods	Instruments	Differential Lock Valve
Catalytic Converter	Counter Shaft Clutch	Electronic Joysticks	Fan Pumps And Motors
Charge Air Cooler	Differential Housing	Electric Motors	Hydraulic Cylinders
Cold Start Enrichment Systems	Differential Pinion Gear / Ring Gear	Factory Installed Telematics	Hydraulic Hoses and Piping
Connecting Rods & Bearings	Drive Axle Hub	Sensors	Hydraulic Motors
Crankshaft Bearings & Gear	Drive Shaft Support Bearing	Solenoid Valves	Hydraulic Oil Coolers
Crankshaft Including Front And Rear Crankshaft Seals	Drive Shaft with Universal Joints	Starter And Starter Solenoid	Hydraulic Pumps
Cylinder Heads/ Head Gaskets	Electronic Transmission Controller and Valve	Switches	Hydraulic Reservoir
Cylinder Liners	Enclosed Oil Immersed Chains and Sprockets	Traction Control System	Hydraulic Valves
Diesel Exhaust Fluid Tank and Dispensing System	External Oil Lines	Voltage Regulator	Internal O-Rings and Bonded Washers
Diesel Particulate Filter	Filler Tubes (Transmission)	Wiring Harnesses	Pilot Control
EGR System Manifold	Final Drive Pinion	Wiring Harnesses Exclusions	Pressure Reducing Valves
Electronic Engine Control Module	Final Drive Planetary Gears	Rubbing, Chafing, Loose Or Corroded Connections	Unloading Valves
Engine Block	Front Wheel Drive Sensors	FACTORY INSTALLED HEAT AND AIR CONDITIONING	STRUCTURAL
Engine Mounts And Supports	Hydraulic Drive / Travel Motor	Accumulator	Backhoe Booms
Engine Oil Cooler	Hydraulic Drive Pump	Clutch	Backhoe/Excavator Dipper Sticks
Engine Speed Controls, Linkages, and Cables	Hydraulic Transmission-Control Valve	Compressor	C Frame
Exhaust Manifold and Muffler	Hydrostatic Motor	Condenser	Car Body
Fan And Fan Drive	Hydrostatic Transmission Charge Pump	Dryer	Chassis
Filter Mount	Hydrostatic Transmission Pump	Evaporator	Circle Frame
Flywheel, Ring Gear	Hydrostatic/Hydraulic Pump Drives	Expansion Valve	Engine Frame
Front And Rear Engine Covers And Seals	Internal Lubricated Clutch Housings	Heater Core	Equipment Frame
Front Damper	Internal Transmission Control Linkage	Hoses	Excavator Booms
Fuel Lines	Internal Wet Service Brakes	Pulley	Falling Object Protection Structure (FOPS)
Fuel Tank	MFWD Axle/Differential Assembly including Driveshaft and U Joint	Seals & Gaskets	Forklift Masts
Fuel Transfer Pump & Gasket	Planetary Gear Carrier	Temperature Control Programmers and Valves	Inner and Outer Dipper Arms of the Extendable Boom (Backhoe Loader)
Injection Pump	Pneumatic Valves	OPERATOR AREA	Main Frame
Injectors	Rotary Hydraulic Manifold	Covers and Panels	Rollover Protection Structure (ROPS)
Intake and Exhaust Manifold And Gaskets	Splitter Drive/Drop Box	Exterior/Interior Door/Panel Latches, Hinges & Struts	Swing Frame
Oil Filler Tube	Steering Clutches (Wet)	Exterior/Interior Moldings	Swing Tower Castings (Backhoe Loader)
Oil Lines	Swing Motor And Swing Gear Box	Knobs for Switches and Handles	Track Frame
Oil Pan And Gasket	Torque Converter	Mirrors	Wheel Loader/Skid steer Loader Arms
Oil Pump	Torque Converter Pump	Seat Frame & Suspension	
Pistons & Rings	Transfer Drive		
Pre-Cleaner/Air Cleaner Housing	Transmission Case		
Pressure/Temperature Sensors & Sending Units	Transmission Gears, Bearings, & Shafts		
Pulleys	Transmission Pump		
Radiator	Travel & Swing Sections (only) Of Main Control Valve		
Rocker Arm Assembly	Travel Control Valve		
Selective Catalytic Reduction System	Turntable Bearing		
Thermostats	Undercarriage Roller And Idler Seals And Bearings		
Timing Gears	Undercarriage Tensioners		
Turbocharger And Gasket	UNDERCARRIAGE EXCLUSIONS:		
Valve Cover And Gasket	Sprocket, Tracks, Pads, Bolts, Chains, Or Any Failure Due To Wear, Or Breakage Caused By Wear		
Water Piping			
Water Pumps			

This plan excludes coverage for any failure to any component caused by or resulting from the failure of a component not listed as a covered component, including any resulting damage to a listed component. See the Terms and Conditions document for complete plan details.

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..... 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 Stage 3B regulations

FPT engine F4HFE413J

4 cylinders - 4,7 litres - common rail

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

Maximum torque SAE J1995 608 Nm @1600 rpm

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

Excellent traction

29% Limited slip differential on front and rear axles

front and rear axle ZF type MT-L3065-II

TYRES

Tyres 17,5R25

BRAKES

Service brake.....Maintenance free, self-adjusting wet 4-wheel disc brakes

Area 0,31 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 2 or 3 sections, depending on options

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..... Tank: 57 litres, total system: 114 litres

Transmission oil 19 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

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

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

Exterior sound power 105 dB(A) according to ISO6395/6396/3744

Switchable reverse gear alarm

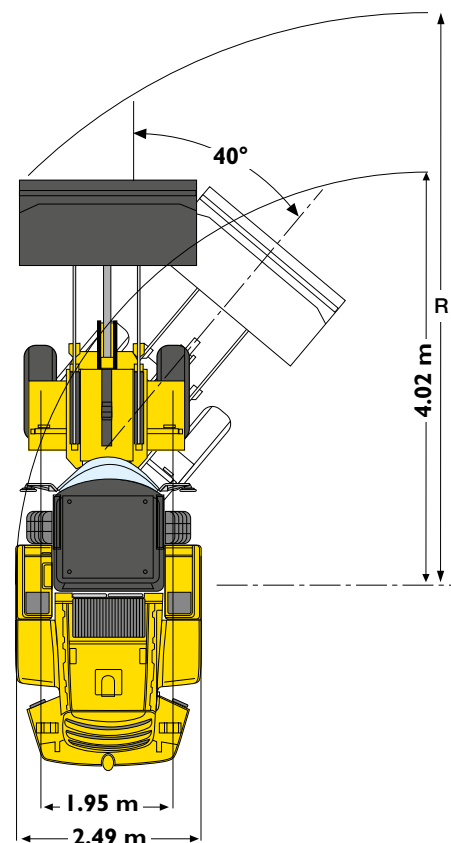
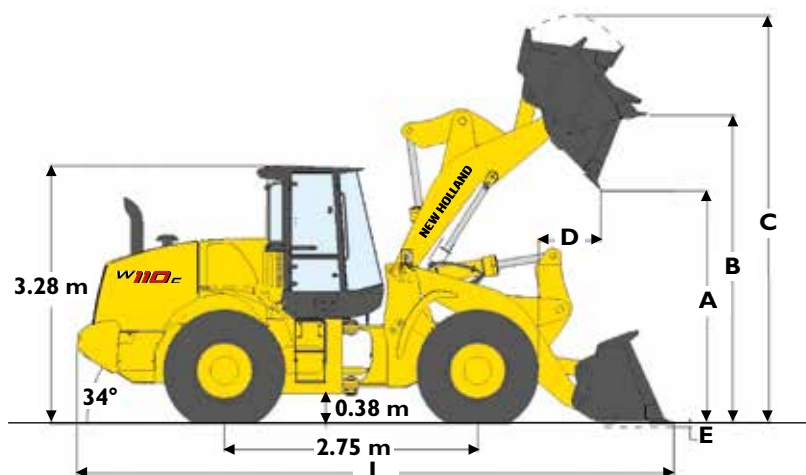
Vibrations air-cushioned seat

ELECTRICAL SYSTEM

24V. Batteries 2 x 12V.

Alternator 70A

PERFORMANCE DATA



W110C		Z-BAR buckets				Tool Carrier buckets	
		2.0 m³		1.7 m³ w/QC		1.7 m³ w/QC	
	Bucket with bolt on:	edge	teeth	edge	teeth	edge	teeth
Bucket volume (heaped)	m³	2.07	1.98	1.70	1.70	1.70	1.70
Bucket Payload	kg	3632	3475	3535	3584	3249	3296
Maximum material density	ton/m³	1.8	1.7	2.1	2.1	1.9	1.9
Bucket outside width	m	2.49	2.54	2.44	2.44	2.44	2.44
Bucket weight	kg	857	857	1137	1065	1117	1045
Tipping load - straight	kg	8150	8145	8317	8415	7634	7728
Tipping load - Articulated at 40°	kg	7264	6949	7069	7167	6497	6591
Breakout force	kg	7591	7781	7104	6959	8288	8124
Lift capacity from ground	kg	8889	8979	10620	10700	10236	10365
A - Dump height at 45° at full height	m	2.62	2.55	2.58	2.56	2.5	2.49
B - Hinge pin height	m	3.61	3.61	3.61	3.61	3.75	3.75
C - Overall height	m	4.75	4.75	4.77	4.77	4.94	4.94
D - Bucket reach at full height	m	1.12	1.19	1.18	1.22	1.23	1.27
E - Dig depth	cm	8	8	7	5	19	18
L - Overall length with bucket on the ground	m	6.83	6.94	6.90	6.92	7.05	7.07
R - Turning radius to front corner of the bucket	m	5.5	5.6	5.5	5.5	5.5	5.6
Bucket rollback in carry position	°	43°	43°	48°	48°	52°	52°
Dump angle at full height	°	55°	55°	50°	50°	62°	62°
Machine operating weight	kg	10448	10468	10728	10656	11189	11117

Note: bucket specification can slightly differ according to plant source. More bucket choice is available, please contact your local dealer.

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 Stage 3B regulations

FPT engine F4HFE613Z

6 cylinders - 6,7 litres - common rail

Max power SAE J1995 128 kW / 172 hp @ 1800 rpm

Maximum torque SAE J1995 730 Nm @ 1600 rpm



TRANSMISSION

All-wheel drive with planetary axles

4-speed auto Powershift ZF type 4WG160, 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

- Excellent traction:

29% Limited slip differential on front and rear axles

Front heavy duty axle type MT-L3075-II - dynamic load: 12.700kg

Rear oscillating axleZF 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

Exterior sound power 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

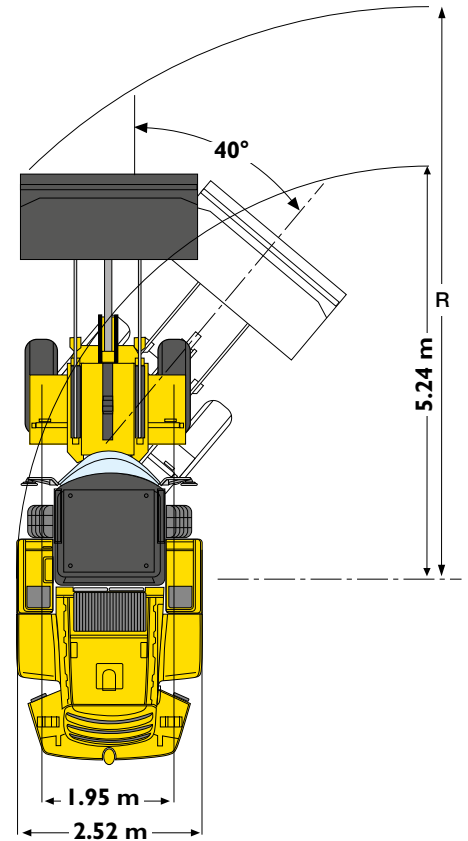
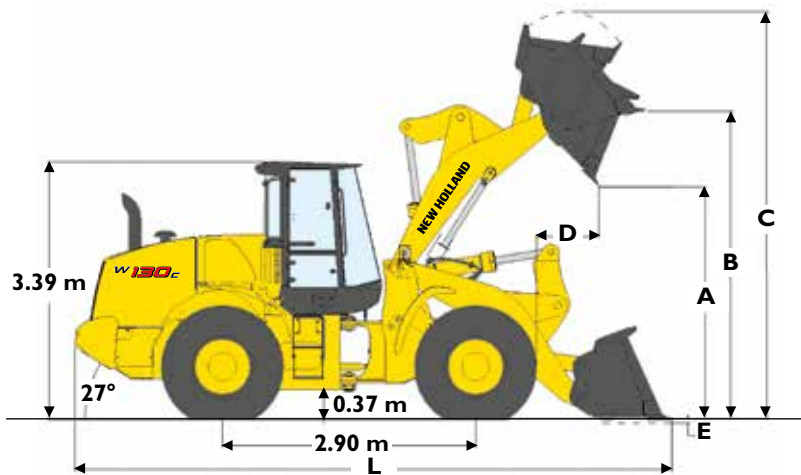


ELECTRICAL SYSTEM

24V. Batteries 2 x 12V.

Alternator 65 A

PERFORMANCE DATA



W130C		Z-BAR buckets				Tool Carrier buckets	
		2.3 m ³		2.0 m ³ w/QC		2.0 m ³ w/QC	
	Bucket with bolt on:	edge	teeth	edge	teeth	edge	teeth
Bucket volume (heaped)	m ³	2.38	2.36	2.00	2.00	2.00	2.00
Bucket Payload	kg	4371	4367	4519	4570	4092	4157
Maximum material density	ton/m ³	1.84	1.85	2.26	2.29	2.05	2.08
Bucket outside width	m	2.49	2.54	2.49	2.49	2.49	2.49
Bucket weight	kg	941	968	1242	1168	1242	1168
Tipping load - straight	kg	9964	9962	10325	10426	9360	9489
Tipping load - Articulated at 40°	kg	8741	8735	9038	9139	8185	8314
Breakout force	kg	9819	10097	9472	9272	10595	10395
Lift capacity from ground	kg	9857	9956	13068	13175	14642	14851
A - Dump height at 45° at full height	m	2.75	2.68	2.71	2.69	2.65	2.63
B - Hinge pin height	m	3.83	3.83	3.83	3.83	3.96	3.96
C - Overall height	m	5.04	5.04	5.05	5.05	5.23	5.23
D - Bucket reach at full height	m	1.08	1.16	1.12	1.16	1.23	1.26
E - Dig depth	cm	9	9	9	8	18	17
L - Overall length with bucket on the ground	m	7.47	7.57	7.53	7.56	7.78	7.81
R - Turning radius to front corner of the bucket	m	5.7	5.8	5.7	5.7	5.8	5.8
Overall length without bucket	m	6.28	6.28	6.28	6.28	6.20	6.20
Bucket rollback in carry position	°	44°	44°	49°	49°	58°	58°
Dump angle at full height	°	51°	51°	46°	46°	55°	55°
Machine operating weight	kg	12191	12218	12492	12418	12569	12459

Note: bucket specification can slightly differ according to plant source. More bucket choice is available, please contact your local dealer.

LOADER SPEED

Raising time (loaded)	sec	6.3
Dump time (loaded)	sec	1.2
Lowering time (empty, power down)	sec	4.4
Lowering time (empty, float down)	sec	4.8

PARTS AND SERVICE

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.



AT YOUR OWN DEALERSHIP

The information contained in this brochure is intended to be of general nature only. The NEW HOLLAND CONSTRUCTION MACHINERY S.p.A. company may at any time and from time to time, for technical or other necessary reasons, modify any of the details or specifications of the product described in this brochure. Illustrations do not necessarily show products in standard conditions. The dimensions, weights and capacities shown herein, as well as any conversion data used, are approximate only and are subject to variations within normal manufacturing techniques.

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