

WHEEL LOADERS

W110 D | W130 D | W170 D

 **NEW HOLLAND**
CONSTRUCTION



Industrial productivity.

The latest D Series wheel loaders now deliver more, with an all-new, best-in-class cab for improved visibility and unrivalled levels of comfort. New Holland wheel loaders have proven strength, performance and reliability. Now they offer exceptional levels of comfort to make them the operator's first choice.



Models	Engine Power (hp)	Bucket with bolt -on edge & QC (m ³)	Operating Weight Z-bar	Tipping load straight Z-bar
W110 D	144	1.7	11303	7896
W130 D	174	2.0	13305	9497
W170 D	197	2.4	15291	10271



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 isolation blocks to reduce noise and vibration and results in noise levels as low as 68dB(A).





Keep it cool

- Optional 30 litre portable coolbox keeps your drinks and snacks cool all day



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



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 CAT2 HVAC or CAT3 Activated carbon filters to suit every application
- The filtration system is linked to an advanced heating and air-conditioned ventilation package



Nice touches

- 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



Three seat options

A choice of three seats are available:

- For general re-handling work in grain stores and yards, the basic high comfort mechanical seat is ideal
- For working over rougher terrain, and in more extreme climates, the premium heated seat with air suspension is offered
- Operators working over rough terrain and spending long hours in the cab can specify a deluxe seat with active air suspension, head rest and heating

Controls.

New seat mounted armrest

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. The result? Less fatigue and benefits for the operator's long term health.



- Fully adjustable seat mounted armrest and arm cushion
- Armrest can slide horizontally independently of the seat for maximum comfort
- Armrest cushion can move vertically





Anti-glare LCD digital dashboard

- Push button, 8inch, LCD colour display provides the operator with a digital dashboard on the A pillar
- Navigation buttons allow the selection of other menus to include machine information and service settings and reminders
- 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



Spoiled for choice

- Opt to use the column mounted forward/reverse shuttle lever, or switch to the FNR buttons on the joystick
- 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

Proven durability in the harshest of conditions.

New Holland has engineered the D Series wheel loaders to suit re-handling of root crops, compost, farm yard manure, grain, woodchip and other bulk materials. D Series wheel loaders also have the traction to work in deep muck or work on a steep silage clamp. These machines are designed with maximum productivity in mind, and equipped with the performance to keep up with the highest output forage harvesters.

Transmission

- New Holland W170 D models drive through a 45kph* Ecoshift five-speed powershift transmission
- The torque convertor can lock above 2nd gear to ensure 100% of engine power is sent to the axles
- Incorporating a 'power-inch' function, the transmission delivers optimised pushing power whilst eliminating roll back
- Both the W110 D and W130 D are offered with a 40kph four-speed powershift transmission with automatic or manual gear selection
- On all three 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
- If the brake is pressed, full engine power will be diverted to the hydraulics for full loading performance





Rear axle oscillation

- Rear axle oscillation is not compromised by the large 750/65 R26 agricultural tyre option, allowing stability to be maintained while traversing large lumps of material encountered during grass silage and maize clamping



Heavy duty axles

- As standard, W170 D wheel loaders are fitted with heavy duty axles with an automatic 100% locking front differential and a fully open differential in the rear axle
- The front differential can also be manually activated by a foot switch
- Both the W110 D and W130 D are equipped with standard axles front and rear featuring limited slip differentials



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

* Where local homologation allows

Raising the standard.

New Holland W110 D, W130 D and W170 D wheel loaders are fitted with the mighty Z-bar boom, constructed from 45mm thick plate steel.



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 boom functions

- Lift to a predetermined height
- Return to a pre-set dig level
- Raise the boom to a set height for travel / cycling between load and dump
- Auto Glide boom suspension can be specified



Model	Hydraulic pump capacity
W110 D (l/min)	134
W130 D (l/min)	171
W170 D (l/min)	206

Hydraulic flow on demand

- Closed centre load sensing hydraulics are standard, the W170 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

Efficiency without compromise.

Powered by 4.5L and 6.7L NEF High Efficiency Selective Catalytic Reduction HI-eSCR engines, New Holland W110 D, W130 D and W170 D wheel loaders combine proven dependability and class leading economy. Compliant with Tier 2B emission regulations, the NEF power units have been co-developed with New Holland sister company FPT Industrial, the pioneer of common rail fuel injection, transport and industry for over 10 years.

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 500 hours. Combined with class leading fuel economy, NEF power units are used across the range of New Holland tractors, combine harvesters and forage harvesters meaning unrivalled after-sales support.



Selectable engine modes

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

- **ECO** - for maximum fuel efficiency
- **STANDARD** - for normal loading and carrying
- **MAX** - for aggressive pushing and climbing
- **AUTO** - for engine output that responds on the fly



Clever cooling package

- A key design feature of D Series loaders is 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

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 sided silage clamps
- Wheel fender widths are available to match the selected wheel and tyre package



Quick hitch

- Attachment versatility and timeliness is guaranteed thanks to the heavy duty hydraulic quick hitch which is compatible with a wide variety of attachments



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 10* high intensity LED work lights

* 10 LED option available September 2017.

Spend time saving money.

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.



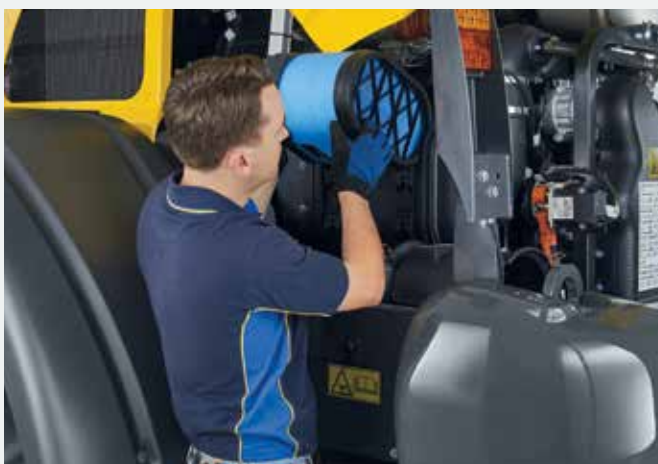
- One piece engine hood features electric opening on W130 D and W170 D models



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



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



- Ground level service access makes the job simpler, faster and safer

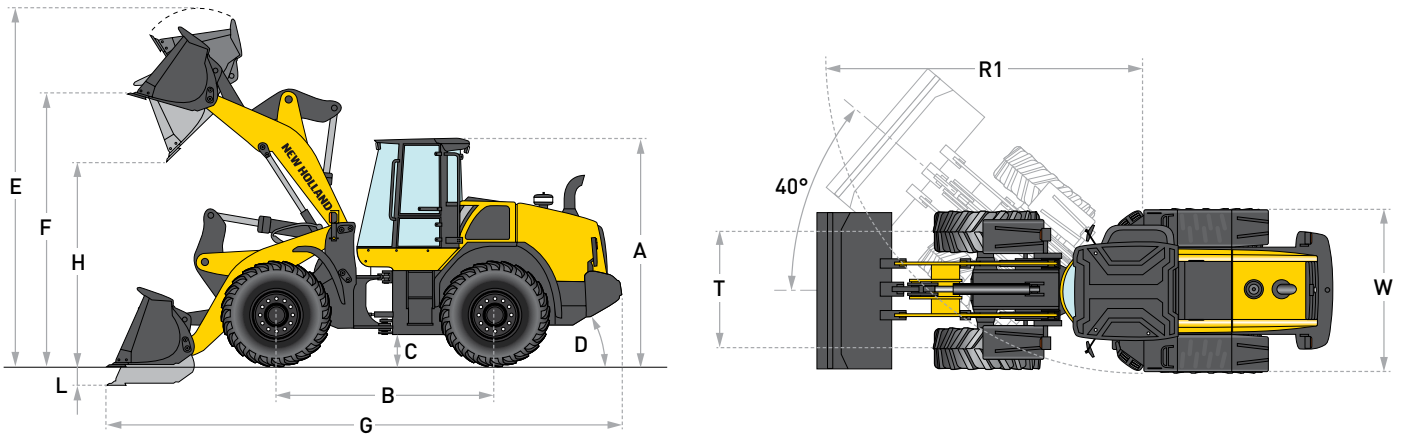
Specifications

General Dimensions



Models	W110 D	W130 D	W170 D
Engine*	NEF N45	NEF N67	NEF N67
No. of Cylinders / Valves	4 / 4	6 / 4	6 / 4
Aspiration	Turbocharger with air-to air cooling		
Fuel system - Common Rail multiple injection	●	●	●
Capacity (cm ³)	4500	6700	6700
Max. horsepower - ISO TR14396 - ECE R120 [kW/hp(CV)]	106/144@1800rpm	128/174@1800rpm	145/197@2000rpm
Max. torque - ISO TR14396 @1600rpm (Nm)	608	730	950
Diesel tank capacity (Litres)	189	248	246
AdBlue tank capacity (Litres)	37	37	37
Cooling system capacity (Litres)	22	26.8	28
Engine oil capacity (Litres)	12	13	13
Service interval (hours)	500	500	500
5-Speed powershift with Lock-Up clutch	-	-	○
Power Inch (Proportional declutching depending on braking intensity)	-	-	●
Number of gears (FxR)	-	-	5x3
Forward minimum speed (kph)	-	-	7
Forward maximum speed (kph)	-	-	45**
Reverse minimum speed (kph)	-	-	8
Reverse maximum speed (kph)	-	-	31
4-Speed powershift with Intelligent Clutch Cut Off (ICCO)	●	●	●
Number of gears (FxR)	4x3	4x3	4x3
Minimum speed (kph)	6	7	8
Maximum speed (kph)	40	40	45**
Reverse minimum speed (kph)	6.4	7	8
Reverse maximum speed (kph)	23	25	26
Electrical			
Alternator (Amps)	65	65	65
Battery	24V (2 x 12V)	24V (2 x 12V)	24V (2 x 12V)
Axles and differentials			
Rear axle total oscillation (°)	24	24	24
Standard axles with limited slip differentials	○	○	●
Heavy duty axles with open differentials and automatic	●	●	○
Hydraulics			
Valves	Rexroth Closed-center, Load sensing hydraulic. Main valve with 3 sections		
Steering	The steering orbitrol hydraulically is actuated with priority valve		
Automatic functions	Bucket Return-to-dig, Boom Return-to-travel, Boom height control		
Control type	Electro-hydraulic joystick control or two/three lever control		
Type of pump	Tandem Variable displacement pump		
Hydraulic oil tank capacity (Litres)	57	91	91
Main pump flow @ 2000rpm (Lpm)	134	171	206
Auxiliary circuit max. pump flow / pressure (Lpm / Bar)	162 / 227	162 / 227	260 / 224
Tyres			
Tyres	A wide selection of agricultural and industrial tyre sizes are available		
Brakes			
Service brake	Maintenance free, self-adjusting wet 4-wheel disc brakes		
Brake disc area (m ² /hub)	0.31	0.39	0.39
Parking brake	With negative brake all wheels are automatically stopped when the engine is stopped		
Disc brake area (cm ²)	58	58	82
Cab			
Protection against falling objects (FOPS)	●	●	●
Protection against roll over (ROPS)	●	●	●
Noise level in the cab - LpA [dB(A)]	68	69	69
Noise level outside - LwA [dB(A)]	101	101	101
Vibrations (m/s ²)	below 0.5	below 0.5	below 0.5

● Standard ○ Optional - Not available * Developed by FPT Industrial ** Where local homologation allows



Loader speed

Raising time (loaded)	(sec)	5.4
Dump time (loaded)	(sec)	1.2
Lowering time (empty, power down)	(sec)	3.9
Lowering time (empty, float down)	(sec)	3.9

DIMENSIONS	
A - Height to top of ROPS cab	128.9 in (3 275 mm)
Height to drawbar	27.5 in (952 mm)
B - Wheelbase	108.3 in (2 750 mm)
C - Ground clearance	13.4 in (341 mm)
D - Angle of departure	30°
W - Width:	
Overall* without bucket	96.8 in (2 459mm)
Centerline tread	78.7 in (2 000 mm)
R1 - Turning radius* - outside	197.1 in (5 007 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation - total	24°

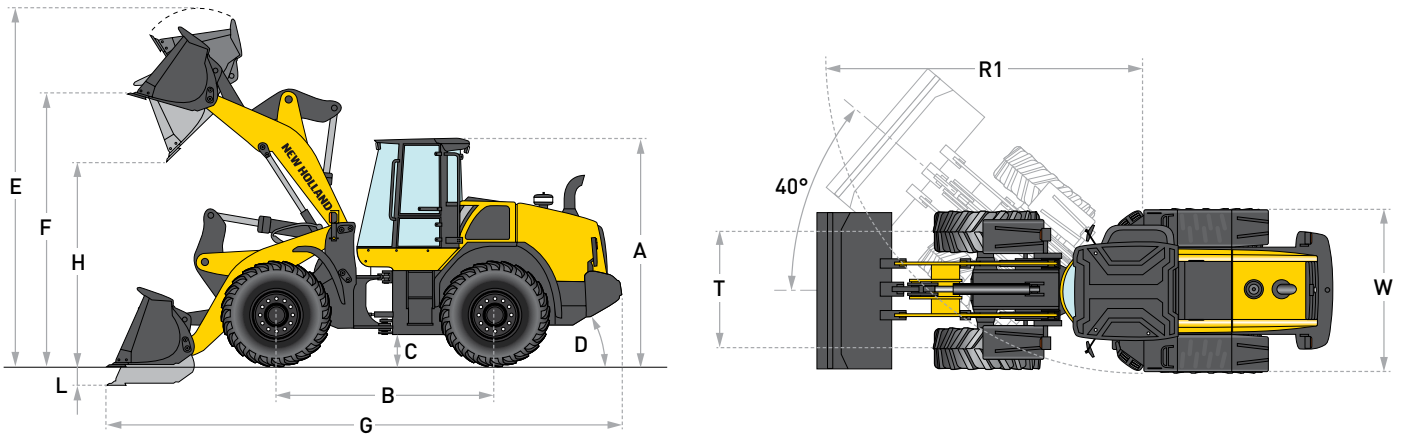
NOTE: *Dimensions taken with 17.5x25 L2 Radial tires.

Select Options	Weight Adjustment	Tipping Load Adjustment	
		Straight	40° Turn
17.5 x 25 L2 Bias tires	-463 lb (-210 kg)	-400 lb (-182 kg)	-655 lb (-297kg)
17.5 x 25 L3 Bias tires	-175 lb (-80 kg)	-131 lb (-59 kg)	-348 lb (-158kg)
17.5-R25 XHA TL (L3 Radial) tires	+169 lb (+76 kg)	+187 lb (+85 kg)	+179 lb (+81 kg)
20.5-R25 XHA TL (L3 Radial) tires	+981 lb (+445 kg)	+796 lb (+361 kg)	+696 lb (+316kg)
20.5-R25 L2 Radial tires	+725 lb (+329 kg)	+553 lb (+251 kg)	+470 lb (+213)
20.5-R25 L3 Radial tires	+981 lb (+445 kg)	+796 lb (+361 kg)	+696 lb (+316kg)
20.5-R25 Snow Radial tires	+848 lb (+385kg)	+634 lb (+288 kg)	+541 lb (+245 kg)
Base counterweight	+1,069 lb (+485 kg)	+2,188 lb (+992 kg)	+1,773 lb (+804kg)

NOTE: Tires inflated to 50 psi (345 kPa) in the front and 40 psi (275 kPa) in the rear.

** Unit equipped with Z-Bar loader arms, 2.1 yd³ (1.61m³) general purpose pin on bucket with bolt-on edge, 17.5x25 L2 Radial tires, ROPS cab with heater and air conditioner, full counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (75kg) operator. Adjust select options from rated weight.

PERFORMANCE W110D. Z-BAR			
W110D Z-Bar	2.6 yd³ GP (2.0 m³) Bucket with Bolt-on-Edge	2.3 yd³ GP (1.76 m³) Bucket with Bolt-on-Edge	2.3 yd³ GP (1.76 m³) Bucket with Teeth Only
Operating weight	24,054 lb (10 911 kg)	24,122 lb (10 942 kg)	24,046 lb (10 907 kg)
SAE bucket capacity - struck Heaped	2.21 yd ³ (1.69 m ³) 2.60 yd ³ (1.99 m ³)	2.00 yd ³ (1.53 m ³) 2.3 yd ³ (1.76 m ³)	1.90 yd ³ (1.45 m ³) 2.2 yd ³ (1.68 m ³)
Bucket width - outside	100.4 in (2 550 mm)	100.4 in (2 550 mm)	100.9 in (2 563 mm)
Bucket weight	1,622 lb (736 kg)	1,690 lb (776 kg)	1,614 lb (732 kg)
E - Operating height - fully raised with spillguard	186.6 in (4 739 mm)	184.1 in (4 677 mm)	184.1 in (4 677 mm)
F - Hinge pin height - fully raised	141.8 in (3 601 mm)	141.8 in (3 601 mm)	141.8 in (3 601 mm)
G - Overall length - bucket level on ground	266.2 in (6 761 mm)	263.4 in (6 691 mm)	269.1 in (6 836 mm)
Dump angle - fully raised	55°	55°	55°
H - Dump height - fully raised, 45° dump	104.7 in (2 660 mm)	106.5 in (2 706 mm)	102.9 in (2 613 mm)
J - Bucket reach - fully raised, 45° dump	41.6 in (1 057 mm)	39.9 in (1 014 mm)	44.1 in (1 119 mm)
K - Bucket reach - 7 ft 0 in (2.13m) height, 45° dump	57.4 in (1 459 mm)	56.8 in (1 442 mm)	58.8 in (1 494 mm)
Operating load - ISO Rigid Tires	8,741 lb (3 965 kg)	8,790 lb (3 987 kg)	8,910 lb (4 041 kg)
Operating load - ISO Deflected Tires	7,879 lb (3 574 kg)	7,926 lb (3 595 kg)	8,035 lb (3 644 kg)
Maximum material density - ISO Rigid Tires	3,362 lb/yd ³ (1 995 kg/m ³)	3,822 lb/yd ³ (2 268 kg/m ³)	4,050 lb/yd ³ (2 403 kg/m ³)
Maximum material density - ISO Deflected Tires	3,031 lb/yd ³ (1 798 kg/m ³)	3,446 lb/yd ³ (2 045 kg/m ³)	3,652 lb/yd ³ (2 167 kg/m ³)
Tipping load - ISO Rigid Tires:			
Straight	19,865 lb (9 011 kg)	19,983 lb (9 064 kg)	20,243 lb (9 182 kg)
40° turn	17,481 lb (7 929 kg)	17,579 lb (7 974 kg)	17,819 lb (8 083 kg)
Tipping load - ISO Deflected Tires			
Straight	18,361 lb (8 328 kg)	18,474 lb (8 380 kg)	18,713 lb (8 488 kg)
40° turn	15,759 lb (7 148 kg)	15,852 lb (7 190 kg)	16,069 lb (7 289 kg)
Lift capacity			
Full height	12,197 lb (5 532 kg)	12,141 lb (5 507 kg)	12,218 lb (5 542 kg)
Ground	20,709 lb (9 393 kg)	22,060 lb (10 006 kg)	23,350 lb (10 592 kg)
Breakout force with tilt cylinder	18,183 lb (8 248 kg)	19,373 lb (8 787 kg)	20,778 lb (9 425 kg)
Maximum rollback			
Ground	40°	40°	40°
Carry position	46°	46°	46°
@ Full height	54°	54°	54°
L - Dig depth	3.4 in (86 mm)	3.1 in (78 mm)	3.2 in (81 mm)
Maximum grading angle with bucket - back dragging	60°	60°	61°
Loader clearance circle with bucket	435.8 in (11 069 mm)	434.2 in (11 029 mm)	437.9 in (11 123 mm)



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)	4.4

DIMENSIONS

A - Height to top of ROPS cab	133.2 in (3 384 mm)
Height to drawbar	42.1 in (1 070 mm)
B - Wheelbase	114.2 in (2 900 mm)
C - Ground clearance	15.3 in (389 mm)
D - Angle of departure	25°
W - Width:	
Overall* without bucket	97.7 in (2 482 mm)
Centerline tread	76.8 in (1 950 mm)
R1 - Turning radius* - outside	205.7 in (5 225 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation - total	24°

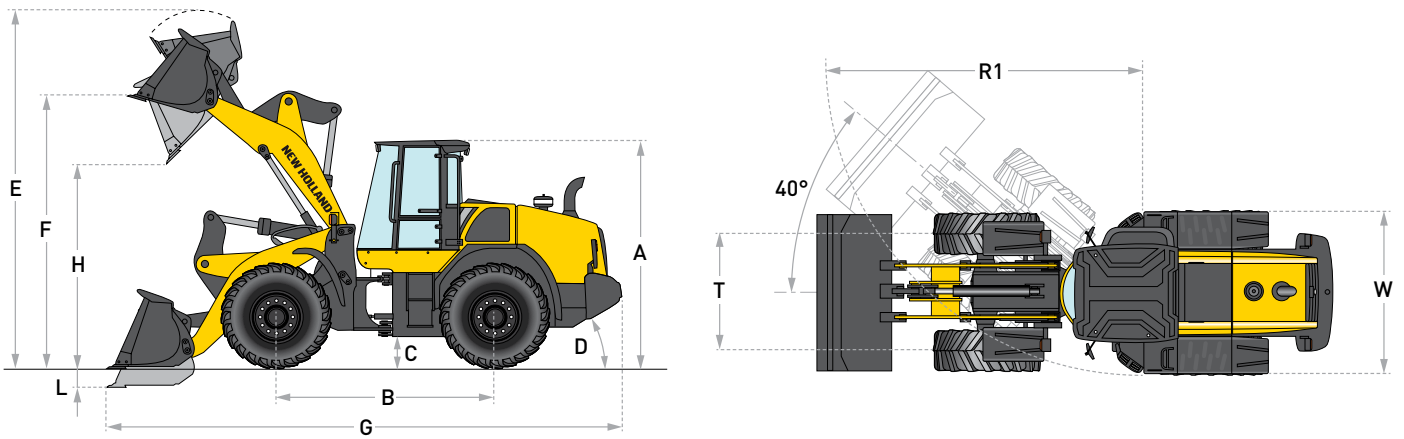
NOTE: *Dimensions taken with 20.5R25 Michelin XTLA (L2 Radial) tires.

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
20.5 x 25 12 ply L2 Bias tires	-336 lb (153 kg)	-360 lb (-163 kg)	-718 lb (-326 kg)
20.5 x 25 12 ply L3 Bias tires	+236 lb (+107 kg)	+499 lb (+226 kg)	+536 lb (+243 kg)
20.5-R25 L3 Radial tires	+256 lb (+116 kg)	+258 lb (+117 kg)	+216 lb (+98 kg)
20.5-R25 Snow Radial Tires	+124 lb (+56 kg)	+84 lb (+38 kg)	+76 lb (+34 kg)
20.5-R25 Solid Tires Req. Diff Axles, Ltd Speed Controller	+5,038 lb (+2 285 kg)	+2,949 lb (+1 338 kg)	+2,893 lb (+1 312 kg)
Base counterweight	-811 lb (-368 kg)	-1,773 lb (-804 kg)	-1,416 lb (-642 kg)

NOTE: Unit equipped with Z-Bar loader arms, 2.5 yd³ [1.9 m³] general purpose pin on bucket with bolt-on edge, 20.5-R25 Michelin XTLA (L2 Radial) tires, ROPS cab with heater and air conditioner, full counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (79 kg) operator. Adjust select options from rated weight.

PERFORMANCE W130D. Z-BAR			
W130D Z-Bar	2.5 yd³ GP (1.9 m³) Bucket with Bolt-on-Edge	2.4 yd³ GP (1.8 m³) Bucket with Teeth Only	2.75 yd³ GP (2.1 m³) Bucket with Bolt-on Edge
Operating weight	27,837 lb (12 627 kg)	27,757 lb (12 591 kg)	27,903 lb (12 657 kg)
SAE bucket capacity - struck Heaped	2.15 yd ³ (1.64 m ³) 2.50 yd ³ (1.91 m ³)	2.05 yd ³ (1.57 m ³) 2.40 yd ³ (1.83 m ³)	2.32 yd ³ (1.77 m ³) 2.75 yd ³ (2.10 m ³)
Bucket width - outside	102.4 in (2 602 mm)	102.1 in (2 593 mm)	102.4 in (2 602 mm)
Bucket weight	1,796 lb (814 kg)	1,716 lb (778 kg)	1,862 lb (844 kg)
E - Operating height - fully raised with spillguard	194.5 in (4 939 mm)	194.5 in (4 939 mm)	195.5 in (4 967 mm)
F - Hinge pin height - fully raised	150.9 in (3 832 mm)	150.9 in (3 832 mm)	150.9 in (3 832 mm)
G - Overall length - bucket level on ground	285.0 in (7 238 mm)	290.7 in (7 383 mm)	287.9 in (7 314 mm)
Dump angle - fully raised	51°	51°	51°
H - Dump height - fully raised, 45° dump	114.1 in (2 897 mm)	110.4 in (2 803 mm)	112.1 in (2 847 mm)
J - Bucket reach - fully raised, 45° dump	36.2 in (919 mm)	40.3 in (1 024 mm)	38.1 in (968 mm)
K - Bucket reach - 7 ft 0 in (2.13m) height, 45° dump	57.8 in (1 468 mm)	60.1 in (1 527 mm)	58.8 in (1 494 mm)
Operating load - ISO Rigid Tires	10,641 lb (4 827 kg)	10,776 lb (4 888 kg)	10,512 lb (4 768 kg)
Operating load - ISO Deflected Tires	9,592 lb (4 351 kg)	9,715 lb (4 407 kg)	9,471 lb (4 296 kg)
Maximum material density - ISO Rigid Tires	4,256 lb/yd ³ (2 526 kg/m ³)	4,490 lb/yd ³ (2 664 kg/m ³)	3,823 lb/yd ³ (2 268 kg/m ³)
Maximum material density - ISO Deflected Tires	3,837 lb/yd ³ (2 277 kg/m ³)	4,048 lb/yd ³ (2 402 kg/m ³)	3,444 lb/yd ³ (2 044 kg/m ³)
Tipping load - ISO Rigid Tires: Straight 40° turn	24,419 lb (11 076 kg) 21,282 lb (9 653 kg)	24,715 lb (11 210 kg) 21,553 lb (9 776 kg)	24,136 lb (10 948 kg) 21,024 lb (9 536 kg)
Tipping load - ISO Deflected Tires Straight 40° turn	22,620 lb (10 260 kg) 19,185 lb (8 702 kg)	22,893 lb (10 384 kg) 19,431 lb (8 814 kg)	22,352 lb (10 139 kg) 18,943 lb (8 592 kg)
Lift capacity Full height Ground	16,395 lb (7 437 kg) 25,169 lb (11 416 kg)	16,483 lb (7 477 kg) 26,558 lb (12 046 kg)	16,320 lb (7 403 kg) 23,798 lb (10 795 kg)
Breakout force with tilt cylinder	27,282 lb (12 375 kg)	29,185 lb (13 238 kg)	25,488 lb (11 561 kg)
Maximum rollback Ground Carry position @ Full height	40° 46° 55°	40° 46° 55°	40° 46° 55°
L - Dig depth	2.9 in (73 mm)	3.0 in (77 mm)	3.1 in (79 mm)
Maximum grading angle with bucket - back dragging	58°	59°	59°
Loader clearance circle with bucket	452.7 in (11 497 mm)	455.5 in (11 570 mm)	454.3 in (11 540 mm)



Loader speed

Raising time (loaded)	(sec)	5.2
Dump time (loaded)	(sec)	1.2
Lowering time (empty, power down)	(sec)	2.5
Lowering time (empty, float down)	(sec)	2.4

DIMENSIONS	
A - Height to top of ROPS cab	133.0 in (3 378 mm)
Height to drawbar	43.5 in (1 105 mm)
B - Wheelbase	128.1 in (3 253 mm)
C - Ground clearance	15.1 in (384 mm)
D - Angle of departure	29°
W - Width:	
Overall* without bucket	100.7 in (2 558 mm)
Centerline tread	79.9 in (2 030 mm)
R1 - Turning radius* - outside	226.3 in (5 748 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation - total	24°

NOTE: *Dimensions taken with 23.5-R25 L3 Radial tires.

WEIGHT ADJUSTMENTS			
Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
20.5 x 25 12 ply L2 Bias tires	-564 lb (-256 kg)	-920 lb (-417 kg)	-1,483 lb (-673 kg)
20.5 x 25 12 ply L3 Bias tires	-536 lb (-243 kg)	+100 lb (+45 kg)	+184 lb (+84 kg)
20.5-R25 L2 Radial tires	-256 lb (-116 kg)	-262 lb (-119 kg)	-163 lb (-74 kg)
20.5-R25 Snow Radial Tires	-132 lb (-60 kg)	-169 lb (-77 kg)	-79 lb (-36 kg)
20.5-R25 Solid Tires Req. Lock Diff Axles, Ltd Speed Controller	+5,545 lb (+2 515 kg)	+4,494 lb (+2 038 kg)	+4 139 lb (+1 878 kg)
Base Counterweight	-545 lb (-247 kg)	-1,129 lb (-512 kg)	-878 lb (-398 kg)

NOTE: Unit equipped with Z-Bar loader arms, 4.75 yd3 (3.6 m3) pin on bucket with bolt-on edge, 23.5-R25 L3 Radial tires, ROPS cab with heater and air conditioner, full counterweight, heavy-duty batteries, front and rear fenders, full fuel and 165 lb (75 kg) operator. Adjust select options from rated weight.

PERFORMANCE W170D. Z-BAR			
W170D Z-Bar	3.0 yd³ GP (2.3 m³) Bucket with Bolt-on-Edge	2.8 yd³ GP (2.1 m³) Bucket with Teeth Only	3.25 yd³ GP (2.5 m³) Bucket with Bolt-on Edge
Operating weight	32,403 lb (14 698 kg)	32,301 lb (14 652 kg)	32,492 lb (14 738 kg)
SAE bucket capacity - struck Heaped	2.56 yd ³ (1.96 m ³) 3.00 yd ³ (2.29 m ³)	2.42 yd ³ (1.85 m ³) 2.80 yd ³ (2.14 m ³)	2.78 yd ³ (2.13 m ³) 3.25 yd ³ (2.48 m ³)
Bucket width - outside	106.3 in (2 700 mm)	106.8 in (2 713 mm)	106.3 in (2 700 mm)
Bucket weight	2,540 lb (1 152 kg)	2,438 lb (1 106 kg)	2,629 lb (1 192 kg)
E - Operating height - fully raised with spillguard	203.4 in (5 165 mm)	203.4 in (5 165 mm)	205.7 in (5 225 mm)
F - Hinge pin height - fully raised	156.5 in (3 976 mm)	156.5 in (3 976 mm)	156.5 in (3 976 mm)
G - Overall length - bucket level on ground	299.4 in (7 606 mm)	305.2 in (7 753 mm)	301.6 in (7 660 mm)
Dump angle - fully raised	50°	50°	50°
H - Dump height - fully raised, 45° dump	116.6 in (2 961 mm)	112.9 in (2 868 mm)	115.2 in (2 926 mm)
J - Bucket reach - fully raised, 45° dump	42.6 in (1 081 mm)	47.1 in (1 196 mm)	44.2 in (1 123 mm)
K - Bucket reach - 7 ft 0 in (2.13m) height, 45° dump	64.1 in (1 628 mm)	66.9 in (1 700 mm)	65.1 in (1 654 mm)
Operating load - ISO Rigid Tires	11,897 lb (5 397 kg)	12,150 lb (5 511 kg)	11,825 lb (5 364 kg)
Operating load - ISO Deflected Tires	10,373 lb (4 705 kg)	10,592 lb (4 804 kg)	10,294 lb (4 669 kg)
Maximum material density - ISO Rigid Tires	3,966 lb/yd ³ (2 353 kg/m ³)	4,339 lb/yd ³ (2 575 kg/m ³)	3,639 lb/yd ³ (2 159 kg/m ³)
Maximum material density - ISO Deflected Tires	3,458 lb/yd ³ (2 052 kg/m ³)	3,783 lb/yd ³ (2 245 kg/m ³)	3,167 lb/yd ³ (1 879 kg/m ³)
Tipping load - ISO Rigid Tires: Straight 40° turn	27,355 lb (12 408 kg) 23,795 lb (10 793 kg)	27,916 lb (12 663 kg) 24,300 lb (11 022 kg)	27,204 lb (12 340 kg) 23,651 lb (10 728 kg)
Tipping load - ISO Deflected Tires Straight 40° turn	25,490 lb (11 562 kg) 20,745 lb (9 410 kg)	26,006 lb (11 796 kg) 21,184 lb (9 609 kg)	25,330 lb (11 489 kg) 20,587 lb (9 338 kg)
Lift capacity Full height Ground	16,135 lb (7 319 kg) 30,124 lb (13 664 kg)	16,247 lb (7 369 kg) 30,568 lb (13 865 kg)	16,046 lb (7 278 kg) 29,913 lb (13 568 kg)
Breakout force with tilt cylinder	33,810 lb (15 336 kg)	36,573 lb (16 589 kg)	32,158 lb (14 587 kg)
Maximum rollback Ground Carry position ∅ Full height	40° 45° 57°	40° 45° 57°	40° 45° 57°
L - Dig depth	3.0 in (77 mm)	2.9 in (75 mm)	3.0 in (77 mm)
Maximum grading angle with bucket - back dragging	58°	59°	58°
Loader clearance circle with bucket	497.1 in (12 626 mm)	500.8 in (12 719 mm)	498.3 in (12 656 mm)

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Factory:

Contagem - Minas Gerais - Brazil
Av. General David Sarnoff, 2,237
Inconfidentes - ZIP 32210-900
Phone: 31 2104-3111



www.newholland.com

