

COMPACT WHEEL LOADERS

W50C ZB | W50C TC | W80C | W80C HS



INCREASED STABILITY, COMFORT AND PRODUCTIVITY

New Holland C Series compact wheel loaders are completely new, with a stable, more compact design, and with more built-in comfort and convenience. You can rely on New Holland compact wheel loaders to perform smoothly and quickly to boost your efficiency on every job site.

EVEN MORE COMPACT

With reduced machine length and width, as well as a lower overall machine height, New Holland compact wheel loaders are even more compact than previous models, so you can work and maneuver easily in restricted spaces.

INCREASED STABILITY FOR FASTER, MORE CONFIDENT OPERATION

C Series compact wheel loaders also feature increased stability so you can:

- lift and move larger loads
- enjoy a smoother ride
- operate with more confidence
- travel more smoothly and quickly, even in tough conditions



FOUR MODELS TO MATCH YOUR NEEDS

| MODEL | CONFIGURATION | NET HP (KW) | LIFT LINKAGE |
|---------|---------------|---------------|--------------|
| W50C ZB | | 55 hp (41 kW) | Z-Bar |
| W50C TC | Tool Carrier | 55 hp (41kW) | Parallel |
| W80C | | 70 hp (52 kW) | Z-Bar |
| W80C HS | High Speed | 70 hp (52 kW) | Z-Bar |





SPACIOUS COMFORT AND SMOOTH CONTROL

The brand-new cab design incorporates big comfort, with roomy dimensions and natural, ergonomic controls. Redesigned wide steps give you easier cab entry and exit. The seat, steering column and armrest adjust to make every operator comfortable. The standard LCD display puts information within an easy glance. The high-performance heater/defroster is standard with optional air conditioning for comfort in any season.

LIFT, LOAD, DIG AND SCRAPE MORE EFFICIENTLY

With dependable engine and hydraulic power and a choice of buckets and attachments, New Holland compact wheel loaders do much more than load. They allow you to scrape, grade, push, rake, haul and more.



Z-BAR LINKAGE - W50C ZB, W80C, W80C HS

The new Z-bar linkage design provides increased breakout force, digging and lifting power. This rugged, simple design is ideal for load-and-carry, high-production applications.

PARALLEL LINKAGE - TOOL CARRIER - W50C TC

The precise, parallel lift path of the W50C TC model eliminates the need for manual correction. The self-leveling lift path means operators can focus on load placement instead of leveling and can increase speed. This model works for multiple applications, but is ideal for forklift work.

BIG POWER

New clean-running Tier IV engines are fuel efficient and reduce emissions.

OPTIONS TO CUSTOMIZE YOUR MACHINE

High-Flow Hydraulics Option (W80C only)

For added versatility and power when working with hydraulic attachments, choose the high-flow option that delivers 34 gpm at 2900 psi.

Auto Ride Control Option

Choose the Auto Ride Control option for a more comfortable ride, less spilling, and less machine wear-and-tear when working on rough ground. This feature engages automatically when ground speed reaches 2.5 mph (4km/h) and automatically disengages at slower speeds for loading and unloading.

Creep Speed Option

For applications that require slow, steady control, the creeper transmission option allows your machine to operate with a maximum speed of 3.4 mph.

High-speed Option (W80C)

An optional 21.7 mph (35 kph) transmission is available for the W80C for faster travel on the job site and between locations.

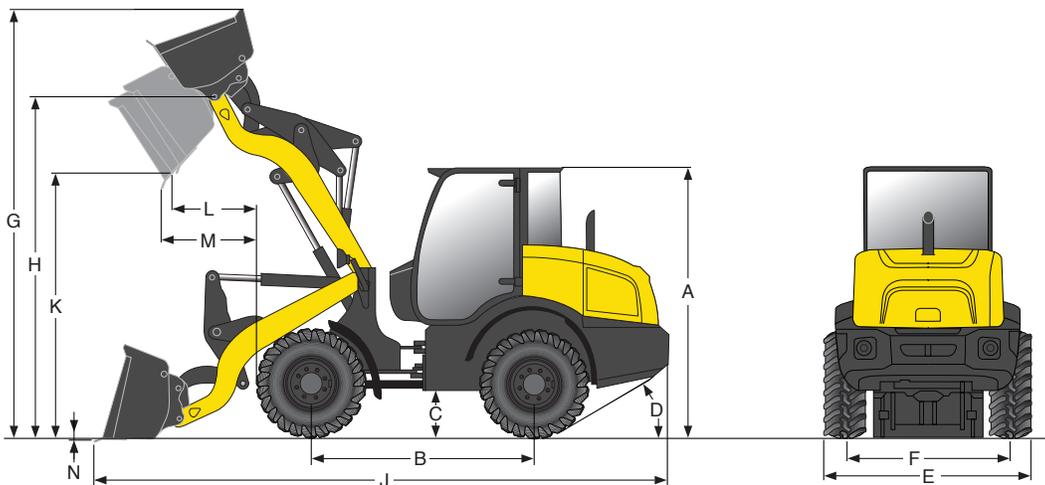
Return to Dig

This option quickly returns the bucket to the dig position after dumping.



FAST SERVICING

Fast, ground-level access to maintenance points and long service intervals reduce the time your operators spend on routine maintenance tasks.



| DIMENSIONS, in. (mm) | | W50C ZB | W50C TC | W80C | W80C HS |
|----------------------|---|-------------|-------------|-------------|-------------|
| A. | Cab height | 97" (2458) | 97" (2458) | 106" (2680) | 106" (2680) |
| B. | Wheelbase | 82" (2075) | 82" (2075) | 88" (2225) | 88" (2225) |
| C. | Ground clearance under shaft | 17" (444) | 17" (444) | 19" (493) | 19" (493) |
| C. | Ground clearance under axles | 13" (321) | 13" (321) | 15" (370) | 15" (370) |
| D. | Angle of departure | 28° | 28° | 32° | 32° |
| E. | Overall width without bucket | 69" (1740) | 69" (1740) | 73" (1860) | 73" (1860) |
| F. | Tread width | 55" (1400) | 55" (1400) | 59" (1500) | 59" (1500) |
| G. | Operating height - fully raised with spillguard | 154" (1400) | 154" (1400) | 169" (4322) | 169" (4322) |
| H. | Hinge pin height - fully raised | 122" (3136) | 121" (3113) | 132" (3395) | 132" (3395) |
| J. | Overall length - bucket level on ground | 206" (5283) | 204" (5219) | 222" (5684) | 222" (5684) |
| K. | Dump height - fully raised, 45° dump | 97" (2490) | 93" (2396) | 105" (2687) | 105" (2687) |
| L. | Bucket reach - fully raised, 45° dump | 30" (766) | 26" (668) | 33" (845) | 33" (845) |
| M. | Bucket reach - 7 ft 0 (2.13m), 45° dump | 43" (1102) | 37" (948) | 52" (1323) | 52" (1323) |
| N. | Dig Depth | 3" (73) | 5" (126) | 3" (84) | 3" (84) |
| | Turning radius - outside | 146" (3721) | 146" (3721) | 157" (3987) | 157" (3987) |
| | Turning angle - | | | | |
| | From center | 40° | 40° | 40° | 40° |
| | Total angle | 80° | 80° | 80° | 80° |
| | Rear axle oscillation, total | 18° | 18° | 20° | 20° |

| ELECTRICAL | W50C ZB | W50C TC | W80C | W80C HS |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Voltage, volts | 12 | 12 | 12 | 12 |
| Alternator, amps | 120 | 120 | 120 | 120 |
| Batteries | 95 AHR, 900 CCA |

| HYDRAULICS | W50C ZB | W50C TC | W80C | W80C HS |
|---------------------------------|---|------------|------------|------------|
| Pump (steering/implement) | Open-centered pressure/flow compensated. Fixed gear pump | | | |
| Loader control valve | Open-center, Hydraulic Loader Control with single lever includes: Forward/Neutral/Reverse switch, Floating switch, Low/High Travel mode switch, Auxiliary Function Roller | | | |
| Loader auxiliary steering | Hydraulic orbital center-pivot articulating w/on-demand oil flow | | | |
| Filtration | 15-micron, full flow replaceable cartridges on return line | | | |
| Flow at 2500 rpm, gpm (lpm) | 18 (67) | 18 (67) | 22 (85) | 22 (85) |
| Main relief pressure, psi (bar) | 3335 (230) | 3335 (230) | 3335 (230) | 3335 (230) |

| HIGH FLOW | W50C ZB | W50C TC | W80C | W80C HS |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|
| Pump | Additional HF pump | Additional HF pump | Additional HF pump | Additional HF pump |
| Flow at 2500 rpm, gpm (lpm) | N/A | N/A | 34 (130) | 34 (130) |
| Pressure, psi (bar) | N/A | N/A | 2900 (200) | 2900 (200) |

| CYLINDERS | W50C ZB | W50C TC | W80C | W80C HS |
|------------------------|----------|----------|----------|----------|
| Lift cylinder(s) | two | one | two | two |
| Bore diameter, in (mm) | 3 (70) | 4 (102) | 3 (84) | 3 (84) |
| Rod diameter, in (mm) | 2 (51) | 2 (51) | 2 (51) | 2 (51) |
| Stroke, in (mm) | 29 (728) | 24 (600) | 30 (751) | 30 (751) |
| Dump cylinder | | | | |
| Bore diameter, in (mm) | 3 (83) | 3 (83) | 3 (89) | 3 (89) |
| Rod diameter, in (mm) | 2 (44) | 2 (51) | 2 (57) | 2 (57) |
| Stroke, in (mm) | 19 (492) | 15 (391) | 20 (507) | 20 (507) |

| ENGINE | W50C ZB | W50C TC | W80C | W80C HS |
|-------------------------------------|--|------------------------|------------------------|------------------------|
| Model | F5HFL463B*F001 | F5HFL463B*F001 | F5HFL463A*F004 | F5HFL463A*F004 |
| Type | 4-stroke | 4-stroke | 4-stroke | 4-stroke |
| Cylinders | 4 cylinders | 4 cylinders | 4 cylinders | 4 cylinders |
| Fuel injection | High pressure common rail injection | | | |
| Fuel | Diesel | Diesel | Diesel | Diesel |
| Fuel Filter | Replaceable, full flow | Replaceable, full flow | Replaceable, full flow | Replaceable, full flow |
| Air filter | Dry type element w/ warning restriction indicator | | | |
| Radiator Core type | Staggered | Staggered | Staggered | Staggered |
| Fan | Direct drive | Direct drive | Direct drive | Direct drive |
| Lubrication/cooling oil pump | integral | integral | integral | integral |
| Engine oil | SAE 10W40 CJ-4 DIESEL SAE 0W40 CJ-4 DIESEL | | | |
| Pump | Deep sump plate cooler with pressurized under-piston nozzles | | | |
| Bore, in. (mm) | 3.898 (99) | 3.898 (99) | 3.898 (99) | 3.898 (99) |
| Stroke, in. (mm) | 4.33 (110) | 4.33 (110) | 4.33 (110) | 4.33 (110) |
| Displacement, liters | 3 | 3 | 3 | 3 |
| Pump operating angles | | | | |
| Side-to-side | Rated 35° | Rated 35° | Rated 35° | Rated 35° |
| Fore and aft | Rated 35° | Rated 35° | Rated 35° | Rated 35° |
| Oil filtration | Replaceable, full flow | Replaceable, full flow | Replaceable, full flow | Replaceable, full flow |
| Engine speed | | | | |
| Rated speed, full load, rpm | 2500 | 2500 | 2500 | 2500 |
| Low idle, rpm | 950 | 950 | 950 | 950 |
| High idle, no load, rpm | 2500 | 2500 | 2500 | 2500 |
| Horsepower - @ 2500 rpm | | | | |
| Gross, hp (kW) | 58 (43) | 58 (43) | 74 (55) | 74 (55) |
| Net, hp (kW) | 55 (41) | 55 (41) | 70 (52) | 70 (52) |
| Peak torque @ 1400 rpm | | | | |
| Gross, lb ft (N·m) | 181 (245) | 181 (245) | 233 (316) | 233 (316) |
| Net, lb ft (N·m) | 185 (251) | 185 (251) | 227 (308) | 227 (308) |

| DRIVETRAIN | W50C ZB | W50C TC | W80C | W80C HS |
|--|--|-------------|------------------------------------|----------|
| Transmission | Hydrostatic transmission | | | |
| Planetaries | Outboard | Outboard | Outboard | Outboard |
| Pump relief, psi (kPa) | 6 (42) | 6 (42) | 6 (42) | 6 (42) |
| Pump flow @ 2500 rpm, gpm (L/min) | 26 (100) | 26 (100) | 37 (140) | 37 (140) |
| Differential | Open or LSD | Open or LSD | Open Diff or LSD or 100% Diff Lock | |
| Front axle | | | | |
| Differential ratio | 3.67 | 3.67 | 3.67 | 3.67 |
| Planetary ratio | 6 | 6 | 6 | 6 |
| Final axle ratio | 22 | 22 | 22 | 22 |
| Gear box | | | | |
| 1st ratio | 1.85 | 1.85 | 2.75 | 2.75 |
| 2nd ratio | N/A | N/A | 1.163 | 1.163 |
| Service brakes | Single pedal. Not assisted, Hydraulic Brake pump with control of the "Inching" function. Auto refill system with auxiliary fluid tank. Caliper on front axle | | | |
| Parking brake | Mechanical control lever, Single dry disk on input of the front axle, Mechanical Caliper with no auto wear adjustment | | | |

| TRAVEL SPEEDS, mph (km/h) | W50C ZB | W50C TC | W80C | W80C HS |
|----------------------------|---------|---------|--------|---------|
| Turtle | | | | |
| Forward | 3 (5) | 3 (5) | 3 (5) | 3 (5) |
| Reverse | 3 (5) | 3 (5) | 3 (5) | 3 (5) |
| Rabbit | | | | |
| Forward | 12 (20) | 12 (20) | 9 (14) | 9 (14) |
| Reverse | 12 (20) | 12 (20) | 9 (14) | 9 (14) |
| High speed - Turtle | | | | |
| Forward | N/A | N/A | N/A | 3 (5) |
| Reverse | N/A | N/A | N/A | 3 (5) |
| High speed - Rabbit | | | | |
| Forward | N/A | N/A | N/A | 21 (33) |
| Reverse | N/A | N/A | N/A | 21 (33) |

| SERVICE CAPACITIES | W50C ZB | W50C TC | W80C | W80C HS |
|-------------------------------|----------------|----------------|-------------|----------------|
| Fuel tank, gal (l) | 23 (87) | 23 (87) | 23 (87) | 23 (87) |
| Hydraulic system | | | | |
| Total, gal (l) | 15 (57) | 15 (57) | 15 (57) | 15 (57) |
| Reservoir, gal (l) | 11 (40) | 11 (40) | 11 (40) | 11 (40) |
| Front Axle, gal (l) | 2 (9) | 2 (9) | 2 (9) | 2 (9) |
| Rear Axle, gal (l) | 3 (12) | 3 (12) | 3 (12) | 3 (12) |
| Engine oil w/ filter, gal (l) | 2 (7) | 2 (7) | 2 (7) | 2 (7) |
| Cooling, gal (l) | 3 (13) | 3 (13) | 3 (13) | 3 (13) |

| OPERATING WEIGHTS | W50C ZB | W50C TC | W80C | W80C HS |
|--------------------------------------|---|----------------|--|----------------|
| Reference configuration | Unit Equipped with ROPS/FOPS cab with heater, standard counterweight, front and rear fenders, full fuel, 165 (75 kg) operator | | | |
| Reference tires | 12.5-18 PRMPT Dunlop Tires | | 365/80 R20 Dunlop Tires | |
| Reference bucket | 0.9 yd ³ (0.7 m ³) general purpose bucket w/ Bolt-on-Edge | | 1.4 yd ³ (1.0 m ³) general purpose bucket w/ Bolt-on-Edge | |
| Operating weights, lb (kg) | 11,111 (5040) | 10,913 (4950) | 13,184 (5980) | 13,184 (5980) |
| With optional counterweight, lb (kg) | N/A | N/A | 13,514 (6130) | 13,514 (6130) |

| FORKS | W50C ZB | W50C TC | W80C | W80C HS |
|--|----------------|----------------|-------------|----------------|
| Fork weight with V type Coupler, lb (kg) | 772 (350) | 745 (338) | 761 (345) | 761 (345) |
| Forks length, in (mm) | 47 (1200) | 47 (1200) | 47 (1200) | 47 (1200) |
| Fork load center, in (mm) | 20 (500) | 20 (500) | 20 (500) | 20 (500) |
| Max height below forks, in (mm) | 114 (2903) | 116 (2959) | 128 (3239) | 128 (3239) |
| Ground-Fork Clearance @ max Reach, in (mm) | 50 (1266) | 53 (1344) | 55 (1398) | 55 (1398) |
| Payload (80% of FTTL - EN 474-3), lb (kg) | 4004 (1816) | 4524 (2052) | 5011 (2273) | 5011 (2273) |
| Tipping load - straight, lb (kg) | 6019 (2730) | 6539 (2966) | 7372 (3344) | 7372 (3344) |
| Tipping load - 40° turn, lb (kg) | 5004 (2270) | 5655 (2565) | 6266 (2842) | 6266 (2842) |
| Payload (80% of FTTL - EN 474-3) w/ add cwt, lb (kg) | N/A | N/A | 5344 (2424) | 5344 (2424) |
| Tipping load with add cwt- straight, lb (kg) | N/A | N/A | 7950 (3606) | 7950 (3606) |
| Tipping load with add cwt - 40° turn, lb (kg) | N/A | N/A | 6680 (3030) | 6680 (3030) |

| STD BUCKET | W50C ZB | W50C TC | W80C | W80C HS |
|---|---|---|---|---|
| Description | 1,0 yd ³ (0.7 m ³) GP bucket Naked | 1,0 yd ³ (0.7 m ³) GP bucket Naked | 1.4 yd ³ (1,0 m ³) GP bucket Naked | 1.4 yd ³ (1,0 m ³) GP bucket Naked |
| Dump angle - fully raised | 45° | 45° | 45° | 45° |
| Max. rollback: Ground | 39° | 37° | 40° | 40° |
| Max. rollback: Carry Position | 47° | 44° | 45° | 45° |
| Max. rollback: @ Maximum reach | 69° | 53° | 55° | 55° |
| Max. rollback: @ Full height | 73° | 55° | 55° | 55° |
| Maximum back dragging angle | 42° | 72° | 61° | 61° |
| ISO bucket capacity - Struck, yd ³ (m ³) | 0.7 (0.5) | 0.7 (0.5) | 1.2 (0.8) | 1.2 (0.8) |
| Heaped, cu. yd. (m ³) | 1.0 (0.7) | 1.0 (0.7) | 1.4 (1.0) | 1.4 (1.0) |
| Bucket width - outside, in (mm) | 74 (1900) | 74 (1900) | 82 (2100) | 82 (2100) |
| Bucket weight (incl. Coupler and components), lb (kg) | 805 (365) | 844 (383) | 926 (420) | 926 (420) |
| Operating load - ISO, lb (kg) | 3538 (1605) | 3598 (1632) | 3962 (1797) | 3962 (1797) |
| Maximum material density - ISO, lb/yd ³ (kg/m ³) | 3865 (2293) | 3930 (2331) | 3029 (1797) | 3029 (1797) |
| Tipping load - ISO: Straight, lb (kg) | 8534 (3871) | 8322 (3775) | 9517 (4317) | 9517 (4317) |
| Tipping load - ISO: 40° turn, lb (kg) | 7077 (3210) | 7194 (3263) | 7921 (3593) | 7921 (3593) |
| Tipping load - ISO: Straight with add cwt | N/A | N/A | 10,031 (4550) | 10,031 (4550) |
| Tipping load - ISO: 40° turn with add cwt | N/A | N/A | 8510 (3860) | 8510 (3860) |
| Operating load with add cwt - ISO | N/A | N/A | 4006 (1817) | 4006 (1817) |
| Maximum material density with add cwt - ISO | N/A | N/A | 3147 (1867) | 3147 (1867) |
| Lift Capacity: Full height, lb (kg) | 7227 (3278) | 5542 (2514) | 8424 (3821) | 8424 (3821) |
| Lift Capacity: Maximum reach, lb (kg) | 9200 (4173) | 6140 (2785) | 10,644 (4828) | 10,644 (4828) |
| Lift Capacity: Ground, lb (kg) | 11669 (5293) | 6614 (3000) | 13,746 (6235) | 13,746 (6235) |
| Breakout force with tilt cylinder, lb (kgF) | 13320 (6042) | 9048 (4104) | 13,927 (6317) | 13,927 (6317) |
| Loader clearance circle, in (mm) | 335 (8596) | 331 (8498) | 362 (9294) | 362 (9294) |



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coverage. More importantly, we are there wherever and whenever you need us with our fully equipped service vehicles. From customized maintenance programs to professional operator and technical training, our factory-trained service and parts experts are there to assist you with any of your equipment support needs.

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place. This is a one-person machine. Never allow riders in the cab, outside the machine, or in/on any bucket or attachment.

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