



NEW HOLLAND

W50B TC W80B TC COMPACT WHEEL LOADERS



- Certified Tier III Engine with Low Emissions
- Standard Hydraulic Quick Coupler – Compatible with all Skid Steer Loader attachments
- Boom design provides outstanding visibility and breakout force
- High speed option allows for travel up to 21.7 miles per hour



BUILT AROUND YOU

INCREASED LIFT, REACH, SPEED AND, CONVENIENCE

New Holland B Series compact wheel loaders pay their way on the jobsite with outstanding performance in a compact, maneuverable machine. The Universal Link design of the W50B TC and W80B TC offers a combination of increased versatility with increased operator comfort and control. The result? You get the job done more quickly and efficiently.

New Universal Link Design

- **Standard hydraulic quick-coupler is skid steer loader-attachment compatible***
- New boom design with one lift cylinder and one bucket cylinder
- Less than two degrees horizontal lift deviation, so there's no need for manual correction during forklift operation
- Operators can focus more on load placement and increasing cycle times
- Increased Dump Reach
- Better visibility



Precise, parallel forklift path eliminates the need for manual correction so operators can focus on load placement rather than load leveling.



New Holland B Series Compact Wheel Loaders are US EPA Tier III certified for low emissions.



*Note: Skid Steer Loader buckets not recommended.



Smooth hydrostatic transmission

- Precise speed control with minimum shifting
- Easy-to-use, integrated FNR (forward/neutral/reverse) lever and speed shift selector
- Two travel ranges to adapt to different work situations:
 - Heavy duty 0 to 3.7 mph (0-6 kph)
 - Fast 0 to 12.4 mph (0-20 kph)

High-speed option (W80B TC)

- Optional 21.7-mph (35 kph) transmission for faster travel on the job site
- Includes two electronic ranges: 0 to 3.1 mph (5 kph) and 0 to 9.9 mph (16 kph), plus the mechanical-gear, high-speed range of 0 to 21.7 mph (35 kph)
- Also features a limited slip differential on front axle and two outboard wet disc brakes on front axle

In-cab efficiency and comfort

- The most spacious cab in this class
- Comfortable, adjustable seat, steering column and armrest
- Main functions concentrated in one convenient joystick control
- Easy-read instruments
- High-performance heater/defroster with optional high-performance air conditioning comfort in all temperatures
- Door and right side window fold back 180 degrees for ventilation

Improved forward reach allows you to place loads exactly where you want.



Outstanding visibility

The narrow loader arm design improves all around visibility, and provides a clear view to both coupler and attachment for fast, confident attachment changes. A front sun visor and front and rear wipers are standard.

POWER TO LIFT, LOAD, DIG, AND SCRAPE

New Holland compact wheel loaders do more than load. With increased engine and hydraulic power and a choice of buckets and attachments, you can easily scrape, grade, haul and more.

Dependable 4-cylinder engine

- Large 3.1-liter displacement and low 2300-rpm engine speed increase engine life
- Direct-injection diesel design features low fuel consumption, low emissions and low noise
- Oil cooling reduces corrosion to increase engine lifespan
- Compact engine measurements improve maneuverability and rear visibility

Enjoy increased versatility with a broad range of attachments including a rock bucket, earth auger, snow push, snow blower, snow blade, loader boom, power rake, tree spade, bale hugger, bale spike and silage defacer.



Fast servicing

- Fast, ground-level access to maintenance points
- Long service intervals— 1000 hours for the W50B TC, 500 hours for the W80B TC
- Excellent access to engine oil drain & filter
- Access all service points from one side

Powerful hydraulics

- Two separate pumps ensure fast cycle times and more output for hydraulic attachments
- One hydraulic pump for implement and steering with second pump for braking and hydraulic fan
- Excellent high lift force when using forks
- Standard third hydraulic function delivers full flow and pressure when needed
- Standard front limited slip differential, optional on rear
- Optional Ride Control load stabilizer improves material retention while traveling over rough ground
- Optional anti-drop valve prevents accidents in case of sudden loss of pressure

Outstanding stability

- Extra-long wheelbase for increased tipping loads
- Low center of gravity
- Smoother ride

An easy-open panel provides quick access to the cab air filter, electrical components and fuses.



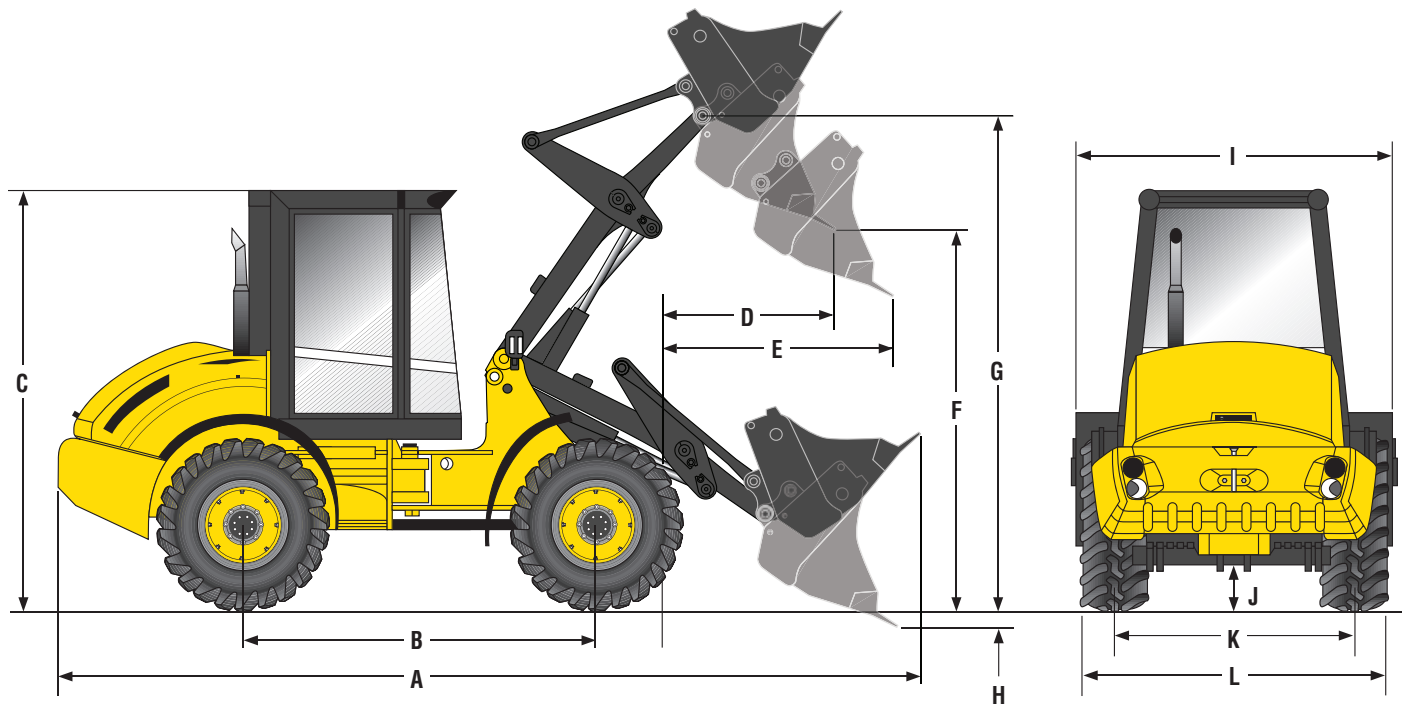
Increased 54-degree rollback

New Holland has increased bucket rollback to 54° for excellent material retention. Operators can completely invert the bucket to grade or pull material away from walls and foundations.



W50B TC W80B TC Dimensions and Bucket Selection

DIMENSIONS



DIMENSIONS

W50B TC

W80B TC

DIMENSIONS	W50B TC	W80B TC
A. Overall length	17' 7" (5360 mm)	18' 6" (5650 mm)
B. Wheelbase	85.9" (2182 mm)	92.5" (2350 mm)
C. Height to top of ROPS/Cab	8' 10" (2710 mm)	9' 2" (2790 mm)
D. Dump reach at full height @ 45°	34" (825 mm)	35" (890 mm)
E. Dump reach @ 7°	3' 10" (1172 mm)	4' 3" (1300 mm)
F. Dump clearance at full height @ 45°	8' 3" (2529 mm)	8' 9" (2671 mm)
G. Hinge pin height	10' 8" (3243 mm)	11' 4" (3459 mm)
H. Dig depth below grade	3.6" (92 mm)	3.5" (89 mm)
I. Bucket width	6' 2" (1900 mm)	6' 11" (2100 mm)
J. Ground clearance under axle	13" (330 mm)	13" (330 mm)
K. Tread gauge	4' 10" (1480 mm)	5' 2" (1570 mm)
L. Width over tires	6' 1" (1841 mm)	6' 5" (1963 mm)
Bucket rollback: at carry	52°	52°
fully raised	54°	54°
Turning radius	12' 7" (3847 mm)	13' 8" (4154 mm)



W50B TC W80B TC Base & Optional Equipment

STANDARD EQUIPMENT

DIESEL ENGINE

FPT Tier III F5C

Displacement: 189 cu in (3.1 l)

50 hp ISO net @ 2300 rpm (W50B TC)

77 hp ISO net @ 2500 rpm (W80B TC)

Electric cold weather starting device

POWER TRAIN

All-wheel drive

Oscillating rear axle

Articulated frame

Outboard planetary axles

Limited slip differential, front axle

HYDRAULICS

Common gear pump hydraulic system

Integral single lever loader control

Hydraulic quick coupler (with control & piping)

Extra hydraulic line

3 spool valve (W50B TC)

TRANSMISSION

Hydrostatic powershift transmission

2 speed forward, 2 speed reverse

Integral lever electric shift controls

Speed: 21.7 mph (35 kph)

TIRES

Dunlop 405/70 R20 SPT9 (W80B TC)

Dunlop 335/90 R18 SPT9 (W50B TC)

OPERATOR STATION

ROPS/FOPS cab with sound suppression

Heater/defroster & ventilation system

Windshield wiper & washer (front & rear)

Adjustable vinyl seat with 2 in. seat belt

Tinted safety glass

Tiltable steering column

Radio ready-antenna & speakers

LOADER SYSTEM

Single lever/3 spool loader control

Skid Steer adaptive hydraulic quick coupler

(not approved for use with skid steer buckets or other ground engaging attachments)

Universal link loader system

INSTRUMENTS

Gauges:

Fuel level

Hourmeter

Engine coolant temperature

Warning lights:

Central warning indicator

Hydraulic oil temperature

Engine oil pressure

Alternator

Headlamp indicator

Turn signal indicator

Engine coolant temperature

Parking brake

Hazard light indicator

Travel direction indicator

ELECTRICAL

12V system

65 amp alternator with 750 CCA battery

12V electrical socket in cab

Back-up alarm

Two head lights

Four turning lights (2 in front, 2 in rear)

Two stop lights

Two tail lights

Two front worklights

Battery disconnect

OPTIONAL EQUIPMENT

OPERATORS STATION

ROPS canopy

Air conditioning for cab units

BUCKET GROUP

.92 cu yd bucket with cutting edge

.92 cu yd bucket with teeth

1.0 cu yd bucket with cutting edge

1.0 cu yd bucket with teeth

4x1 bucket (.85 cu yd) with cutting edge

4x1 bucket (.85 cu yd) with teeth

FORKLIFT PACKAGES

2 lift forks (100 in x 45 in x 47 in)

Fork carrier protection

Additional counterweight

OTHER

Additional counterweight (352 lbs)

Rotating beacon light

LTS system

Rear limited slip differential

Tool box

W50B TC Specifications

ENGINE

Model Tier III certified	FPT F5C
Horsepower, gross, hp (kW)	54 (41)
Horsepower, net, hp (kW)	50 (38)
Rated rpm	2,300
Torque, net (SAE J1349)	162 lb-ft @ 1400
Number of cylinders	4
Displacement, cu in (l).....	195 (3.11)
Aspiration.....	Natural

CYLINDERS

Lift cylinder	3.5 in diam x 28.4 in stroke x 2 in rod
Dump cylinder	3.5 in diam x 18 in stroke x 2 in rod

TRANSMISSION

Make and model	Rexroth A4VG40
Type	Hydrostatic
Speeds	2 F/2 R
1st Gear, mph	3.1
2nd Gear, mph	12.4

STEERING

Pump type	Gear
Flow, gpm (lpm)	13.7 (52)
Steering valve type.....	Orbital
Articulation angle	41°

HYDRAULICS

System type	Open center
Pump type	Gear
Valve type	3 spool
Pump capacity, gpm (lpm)	13.7 (52)
System relief pressure, psi	3,625
Cycle times:	
lift, sec	6.0
lower, sec	3.0
dump, sec	1.0

ELECTRICAL

System voltage, volts.....	12
Alternator output, amps.....	55
Battery capacity – std, CCA.....	750

PERFORMANCE - BUCKET WITH QUICK COUPLER

Bucket capacity heaped, cu yd (m ³).....	.92 (.70)
Bucket capacity struck, yd (m)73 (.56)
Breakout force, lbs (kg)	8,386 (3804)
Static tip load straight, lbs (kg)	7,377 (3346)
Static tip load full turn, lbs (kg)	6,489 (2944)
Operating weight, lbs (kg)	10,173 (4615)
Dump height, ft in (mm).....	8' 3" (2529)
Dump reach, in (mm)	33 (825)

*Note: Machine equipped with bucket, bolt on cutting edge and coupler.

PERFORMANCE - CONSTRUCTION UTILITY FORK (48 INCH)

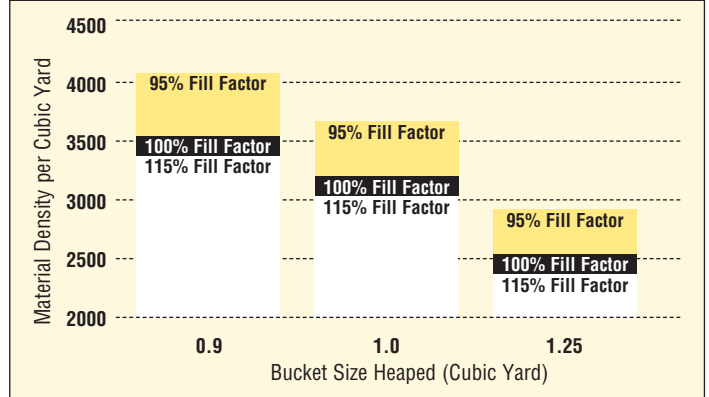
Static tip load straight, lbs (kg)	5,176 (2348)
Static tip load full turn, lbs (kg)	4,524 (2052)
Operating weight, lbs (kg)	10,258 (4653)
Reach, fully raised, in (mm)	23 (595)
Fork height, fully raised, ft in (mm)	10' 7" (3245)
Reach, ground level, in (mm)	34 (850)
Maximum reach, ft in (mm).....	4' 4" (1331)

*Note: Machine equipped with fork,d additional counterweighting and coupler.

CAPACITIES

Fuel tank, gal (l)	26 (100)
Cooling system, gal (l).....	4.4 (16.6)
Engine crankcase & filter, qt (l)	9.0 (8.5)
Axles, front, gal (l)	2.0 (7.5)
Axles, rear & transfer box, gal (l)	2.0 (7.5)
Hydraulic tank reservoir, gal (l)	10.5 (39.8)
Hydraulic system, gal (l).....	14.8 (56)

BUCKET SIZES



W80B TC Specifications

ENGINE

Model Tier III certified	FPT F5C
Horsepower, gross, hp (kW)	82 (61)
Horsepower, net, hp (kW)	77 (57)
Rated rpm	2,500
Torque, net (SAE J1349)	226 lbs-ft @ 1,400 rpm
Number of cylinders	4
Displacement, cu in (l)	189 (3.11)
Aspiration	Natural

CYLINDERS

Lift cylinder	3.5 in diam x 28.4 in stroke x 2 in rod
Dump cylinder	3.5 in diam x 18 in stroke x 2 in rod

TRANSMISSION

Make and model	Rexroth A4VG71
Type	Hydrostatic
Speeds	2 F/2 R
1st Gear, mph	3.7
2nd Gear, mph	12.4
High travel speed (HTS) option engaged, mph	21.7

STEERING

Pump type	Gear
Flow, gpm (lpm)	21.1 (80)
Steering valve type	Orbital
Articulation angle	41°

HYDRAULICS

System type	Open center
Pump type	Gear
Valve type	3 spool
Pump capacity, gpm (lpm)	21.1 (80)
System relief pressure, psi	3,916
Cycle times: lift, sec	6.0
lower, sec	3.0
dump, sec	1.0

ELECTRICAL

System voltage, volts	12
Alternator output, amps	65
Battery capacity – std, CCA	750

PERFORMANCE - BUCKET WITH QUICK COUPLER

Bucket capacity heaped, cu yd (m ³)	1.31 (1.0)
Bucket capacity struck, cu yd (m ³)	1.09 (.83)
Breakout force, lbs (kg)	11,982 (5435)
Static tip load straight, lbs (kg)	9,741 (4418)
Static tip load full turn, lbs (kg)	8,281 (3756)
Operating weight, lbs (kg)	12,676 (5773)
Dump height, ft in (mm)	8' 11" (2671)
Dump reach, in (mm)	33.6 (852)
*Note: Machine equipped with bucket, bolt on cutting edge and quick-coupler.	

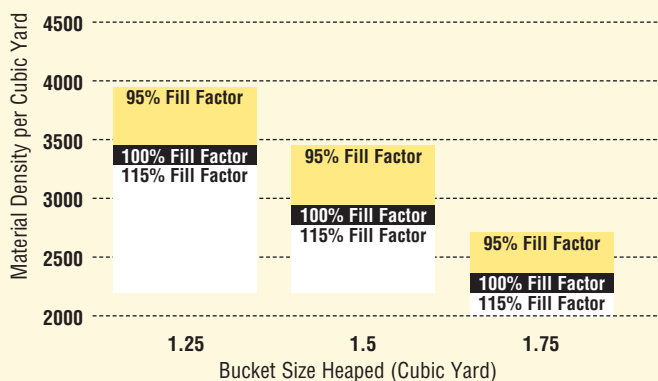
PERFORMANCE - CONSTRUCTION UTILITY FORK (48 INCH)

Static tip load straight, lbs (kg)	7,197 (3265)
Static tip load full turn, lbs (kg)	6,106 (2770)
Operating weight, lbs (kg)	12,544 (5690)
Reach, fully raised, in (mm)	22 (555)
Fork height, fully raised, ft in (mm)	11' 2" (3420)
Reach, ground level, in (mm)	32 (822)
Maximum reach, ft in (mm)	4' 5" (1348)
*Note: Machine equipped with fork, additional counterweighting and quick-coupler.	

CAPACITIES

Fuel tank, gal (l)	26 (100)
Cooling system, gal (l)	4.4 (16.5)
Engine crankcase & filter, qt (l)	9.0 (8.5)
Axles, front, gal (l)	2.11 (8.0)
Axles, rear & transfer box, gal (l)	2.11 (8.0)
Hydraulic tank reservoir, gal (l)	10.5 (40.0)
Hydraulic system, gal (l)	19.5 (74)

BUCKET SIZES



COMPACT WHEEL LOADERS

W50B TC

Horsepower: Net 50 hp (38 kW)

Operating weight: 10,173 lbs (4615 kg)

Bucket capacity: .92 cu yd (.7 m³)

W80B TC

Horsepower: Net 77 hp (57 kW)

Operating weight: 12,544 lbs (5690 kg)

Bucket capacity: 1.31 cu yd (1.0 m³)

World Class Products Demand World Class Dealers

The purchase of a New Holland Construction machine is just the beginning of our relationship together. Consider your experienced New Holland Construction Equipment dealer as your local partner in productivity. Assistance in selecting the right model for your operation and developing an affordable leasing or financing plan through CNH Capital are just a few advantages your local dealer can provide.

Your New Holland Construction dealer's full service capabilities bring you responsive support with genuine New Holland parts and all makes 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.

Your business deserves nothing less than world class product, supported by a world class business partner. That's your New Holland Construction Equipment dealer—your partner in productivity.



New Holland Construction Equipment is backed with a **1-Year/Unlimited Hour Standard Warranty.**

Use our dealer locator at www.newholland.com to find the dealer nearest you.



New Holland Construction
245 E. North Avenue
Carol Stream, IL 60188-2021
866-726-3396 Toll Free
630-260-4000
630-260-4304 Fax



Design, materials and/or specifications are subject to change without notice and without liability therefor. Specifications are applicable to units sold in Canada, the United States, its territories and possessions, and may vary outside these areas.

© 2008 CNH America LLC. All rights reserved. New Holland is a trademark of CNH America LLC. Any trademarks referred to herein, in association with goods and/or services of companies other than CNH America LLC, are the property of those respective companies.



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.

Stock #NHC10170805 • 110803 • MG • PRINTED IN U.S.A.

www.newholland.com

