



W170B/W190B WHEEL LOADERS



W170B W170BTC W190B



MAXIMUM UPTIME, MAXIMUM PRODUCTIVITY

New Holland wheel loaders are designed to work hard, moving more material per hour to increase your overall productivity. And with superior operator comfort and easy maintenance, New Holland wheel loaders make the very most of every hour in the work day.

Efficient hydraulics

- Closed-center, load-sensing hydraulic system delivers fast cycle times and maximum breakout force on demand
- Matches hydraulic output to load requirements for maximum efficiency

Tier 3 engines with multiple work modes

Four different work modes allow the operator to select a power mode to match machine performance to the specific job to maximize productivity and fuel efficiency.

- Maximum power – performance for extreme conditions
- Standard power – normal loading conditions
- Economy power – lift and carry applications
- Automatic power – automatically matches the power curve to the application

Best-in-class cab

- Spacious, uncluttered design
- Comfortable seating and low-effort controls
- Outstanding visibility with nearly 50 square feet of seamless glass

Time-saving maintenance

- Reach all daily check points from ground level
- Swing-open, lockable service panels provide quick access to major engine components

W170TC Tool Carrier Model

- Extra-fast attachment changes – ideal for multiple applications
- More accurate self leveling for increased productivity when using a pallet fork
- Greater breakout force, reach and visibility



Wide range of attachments for multiple applications:

- General-Purpose Buckets
- Light Materials Buckets
- Multi-Purpose Buckets
- Rock Buckets
- Penetration Buckets
- Pallet Forks



| | W170B / W170BTC | W190B |
|---------------------------------|-----------------------|-----------------------|
| Gross horsepower, hp (kW) | 195 (145) @ 2,000 rpm | 227 (169) @ 2,175 rpm |
| Net horsepower, hp (kW) | 183 (137) @ 2,000 rpm | 213 (159) @ 2,175 rpm |
| Peak Torque, gross, lb-ft (N-m) | 636 (862) @1300 rpm | 739 (1002) @ 1500 rpm |
| Peak Torque, net, lb-ft (N-m) | 605 (821) @1300 rpm | 712 (966) @ 1500 rpm |
| Fuel tank capacity, gal (L) | 66.9 (253) | 76 (288) |



Standard limited slip axles deliver greater traction while the long wheelbase and short turn radius allow for extra-smooth maneuvering.



Incredible breakout force allows New Holland wheel loaders to dig into heavy, packed materials.



Load Travel Stabilizer

The optional load travel stabilizer (LTS) absorbs shocks and smoothes the ride on rough terrain, for faster travel speeds, and better material retention.



New Holland Z-linkage loader design delivers outstanding breakout force.





FAST-ACTING, LOAD SENSING HYDRAULICS

Speed and efficiency are built into the hydraulic design of every New Holland wheel loader.

On-demand hydraulic power

- Closed-center, pressure-compensating hydraulic system matches hydraulic output to exact load requirements
- System efficiency results in improved fuel economy, reduced heat generation and increased power to the ground when hydraulics aren't being used
- Dual Rexroth variable-displacement axial piston pumps provide flow and pressure on demand for loader functions
- A steering priority valve assures consistent hydraulic flow for steering

Advantages of Z-bar linkage

- Faster loader cycle time
- Greater tipping load
- Shorter overall length
- Greater visibility to bucket

Advantages of W170BTC parallel lift (Tool Carrier)

- Greater breakout force - 2 cylinders vs. 1
- Greater dump reach - longer loader arms
- Higher hinge pin height
- Less attachment deviation throughout the lift cycle
- More accurate self-leveling allows for easy, smooth pallet fork maneuvering
- Greater visibility to pallet forks

Easy-load buckets

- Knife-like cutting edges penetrate easily into the pile
- High hinge pin position provides better crowding action
- Curved bucket floor for fast, easy filling
- Tapered skid plates on the bucket underside reduce ground drag

| | W170B | W170BTC | W190B |
|--|-----------------|-----------------|-----------------|
| Standard SAE heaped bucket capacity, yd ³ (m ³) | 3.0 (2.3) | 2.96 (2.26) | 3.5 (3.2) |
| Breakout force, lbs (kg) | 32,962 (14,951) | 30,407 (13,792) | 40,738 (18,479) |
| Tipping load, straight w/bucket, lbs (kg) | 27,578 (12,509) | 25,233 (11,446) | 32,178 (14,596) |
| Tipping load, straight w/coupler and 48" utility forks | 19,118 (8672) | 17,745 (8049) | 15,266 (6925) |
| Tipping load, 40-degree full turn w/bucket, lbs (kg) | 24,038 (10,903) | 21,952 (9957) | 27,864 (12,639) |
| Tipping load, 40-degree full turn, w/coupler and 48" utility forks | 16,188 (7343) | 15,006 (6807) | 13,279 (6023) |
| Hydraulic lifting capacity at ground level, lbs (kg) | 30,236 (13,715) | 30,653 (13,904) | 37,388 (16,959) |
| Reach, 45" dump angle, full height, in (mm) | 42.8 (1087) | 46.5 (1182) | 43.6 (1107) |

DURABLE DESIGN AND RELIABLE POWER

Tight deadlines, heavy loads, rough terrain, brutal temperatures, or all of the above – A New Holland wheel loader will match your demands.

More power to the ground

- Engine torque response provides extra power when needed
- Direct fuel injection assures outstanding fuel efficiency

Advanced cooling system design

- Virtually eliminates debris buildup and assures flow of clean, cool air to all cooling components
- A hydraulically driven fan with optional purge feature reduces build up of debris
- Lower component operating temperatures decrease operating costs by reducing fluid breakdown and extending component life
- Mid-mounted cooling system and optimal engine placement

Heavy-duty outboard planetary reduction final drives

- Develop torque at the wheel instead of along the axle
- Reduced axle shaft stress
- Allows independent servicing of one side of the axle shaft

Better traction and control

- Maintenance-free outboard wet disc brakes on all wheels
- Rugged, limited slip differentials keep you moving in the worst conditions by transferring power from the slipping wheel to the wheels with the best traction
- Rear axle oscillates up to 24 degrees for added confidence when working on rough, uneven ground
- Reduced tire spin extends tire life

Reliable articulation joint

- Heavy-duty top and bottom plates
- Double-tapered roller bearings
- High-mount steering cylinders
- Clean hose routing between the front and rear frames



Time-saving servicing

- Sight gauges for transmission and hydraulic fluid levels
- Central environmental fluid drain bank
- 500-hour engine oil change interval
- Maintenance-free driveshaft u-joints
- Extended lubrication intervals for loader linkage pins (50 hours) and articulation joint bearings (1000 hours)



Better balance means better performance

New Holland's main frame design incorporates smart weight distribution and convenient service access. The engine, transmission and cooling system are strategically located for optimum weight distribution. A better balanced machine improves lifting performance and provides a better weight-to-horsepower ratio





You can reach all daily check points from ground level, and can easily reach major engine components through lockable, swing-open service doors.

Powerful Tier 3 engines provide increased torque for more lugging and lifting ability.

Environmental fluid drains for engine oil, coolant and hydraulic oil, as well as hydraulic diagnostic quick couplers save you valuable time.

Analog instrument gauges are easy to see and read. Engine diagnostics provide warning with a three-level warning light system.

Forward/reverse switch means faster cycle times.





Flat glass provides an unobstructed view to the bucket and the worksite.



COMFORT AND CONVENIENCE EQUAL PRODUCTIVITY

A comfortable operator is more productive. That's why New Holland engineers invest extra time and effort in designing the optimum operator environment.

Outstanding visibility

- Expansive flat glass area provides excellent overall visibility
- No front corner posts to obstruct your view to the front bucket, and the low rear hood and frame design provide better visibility to the rear
- Front and rear washer/wipers and sun curtains are standard

Convenient, automatic shifting

- State-of-the-art 4x3 powershift transmission features a convenient forward/reverse shuttle lever mounted to the left-hand side of the steering wheel
- Simply press a button to switch between manual, and automatic operating modes

Automatic mode does the shifting for you.

In manual mode, simply twist the shuttle lever to shift between gears.

Fingertip loader control

- Choose standard pilot-operated joystick or optional 2-lever or 3-lever fingertip controls – all with fast-cycle forward/reverse switch.

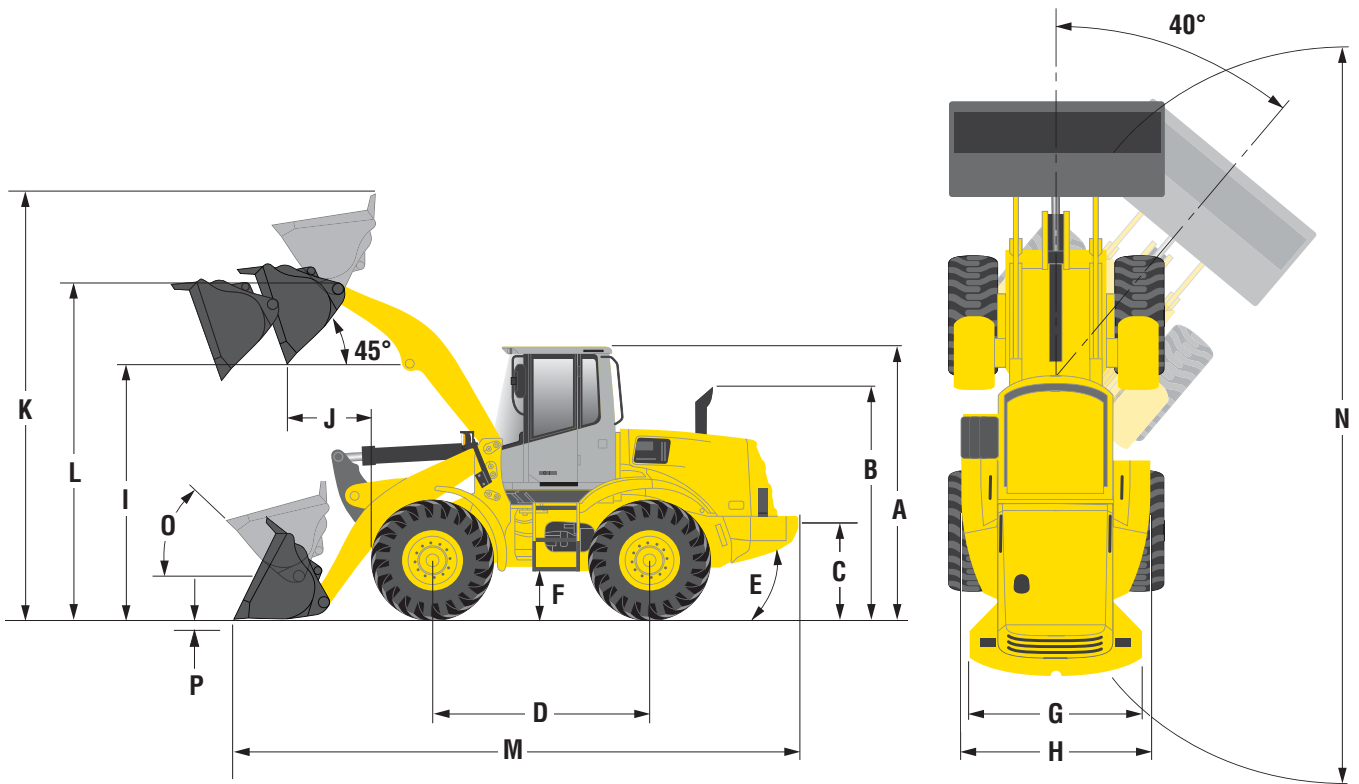
Uncluttered, comfortable cab

- Wide doors for easy entry and exit
- Quiet, roomy interior dimensions
- Seat and tilting steering column adjust to the perfect position
- Cabs are tightly sealed, heavily insulated and isolation-mounted using maintenance-free oil-filled dampeners to keep out dust, dirt, noise and vibration
- A deep, wide, air-ride seat with foldable armrests is optional

Visit your New Holland construction equipment dealer to learn more about New Holland wheel loaders.

W170B Specifications

DIMENSIONS



DIMENSIONS

| | | | |
|-----------------------------|------------------|---------------------------------|------------------|
| A. Height to top of cab | 134" (3410 mm) | Turning radius-outside of tires | 226.4" (5750 mm) |
| B. Height to top of exhaust | 114.8" (2917 mm) | F. Ground clearance | 18.7" (474 mm) |
| C. Height to drawbar | 40.5" (1025 mm) | G. Tread width | 79.9" (2030 mm) |
| D. Wheelbase | 128.1" (3253 mm) | H. Width over tires | 100.9" (2562 mm) |
| E. Rear departure angle | 33° | | |

PERFORMANCE DATA: COUPLER AND UTILITY FORKS

| | | | |
|---|--------------------------|---|------------------------|
| Tine Length | Forks 48.0" (1219 mm) | Fork Max. reach-vertical front surface of tine to front of tire | Forks 62" (1574 mm) |
| Tine Width x Height | 6 x 2.5" (152 x 64 mm) | Fork reach @ ground-vertical front surface of tine to front of tire | 35.1" (892 mm) |
| Max. width across tines | | Overall height- operating top of attachment, forks level | 167.2" (4248 mm) |
| Outside to outside of tines | 60.0" (1524 mm) | Clearance circle, w/forks @ carry and 15° rollback | 478.8" (12,162 mm) |
| Fork load center-vertical front surface of tine to load CG | 24.0" (610 mm) | Fork weight w/coupler | 2,038 lb. (924 kg) |
| Fork clearance @ full height | | Tipping load, straight | 19,188 lb. (8672 kg) |
| Ground to top of tine | 149.4" (3794 mm) | Tipping load @ 40° full turn | 16,188 lb. (7343 kg) |
| Fork clearance @ max reach | | Operating weight | 30,238 lb. (13,716 kg) |
| Ground to top of tine | 73.2" (1860 mm) | | |
| Fork reach @ full height- vertical front surface of tine to front of tire | 31.5" (801 mm) | | |

W170B Specifications

PERFORMANCE DATA: PIN-ON BUCKETS (see diagram on page 10)

| KEY | Bucket Type/Size | | | | |
|---|---|---|---|---|---|
| | Excavating w/Bolt-on Edge | Excavating w/ Teeth and Segments | General Purpose w/Bolt-on Edge | General Purpose w/ Teeth and Segments | Stockpiling LM Bucket w/Bolt-on Edge |
| Capacity, heaped (SAE) | 3.0 yd ³ (2.3 m ³) | 3.0 yd ³ (2.3 m ³) | 3.25 yd ³ (2.5 m ³) | 3.25 yd ³ (2.5 m ³) | 3.5 yd ³ (2.7 m ³) |
| Capacity, struck (SAE) | 2.53 yd ³ (1.94 m ³) | 2.53 yd ³ (1.94 m ³) | 2.76 yd ³ (2.11 m ³) | 2.76 yd ³ (2.11 m ³) | 3.0 yd ³ (2.3 m ³) |
| Bucket width | 106.3" (2700 mm) | 106.3" (2700 mm) | 106.3" (2700 mm) | 106.3" (2700 mm) | 106.3" (2700 mm) |
| Bucket weight | 2506 lb. (1137 kg) | 2699 lb. (1224 kg) | 2615 lb. (1186 kg) | 2807 lb. (1273 kg) | 2772 lb. (1257 kg) |
| Breakout force | 32,958 lb. (14,950 kg) | 32,779 lb. (14,860 kg) | 31,431 lb. (14,257 kg) | 31,253 lb. (14,176 kg) | 29,805 lb. (13,519 kg) |
| Tipping load, straight (ISO) | 27,578 lb. (12,509 kg) | 27,343 lb. (12,403 kg) | 27,519 lb. (12,482 kg) | 27,283 lb. (12,375 kg) | 27,381 lb. (12,420 kg) |
| Tipping load @ 40° full turn (ISO) | 24,038 lb. (10,903 kg) | 23,803 lb. (10,797 kg) | 23,974 lb. (10,874 kg) | 23,738 lb. (10,767 kg) | 23,836 lb. (10,812 kg) |
| I. Dump clearance, 45° dump angle-full height | 116.6" (2962 mm) | 112.6" (2861 mm) | 115.2" (2926 mm) | 111.3" (2827 mm) | 113.7" (2888 mm) |
| J. Reach, 45° dump angle, full height | 42.8" (1087 mm) | 46.9" (1191 mm) | 44.3" (1125 mm) | 48.5" (1232 mm) | 46.1" (1171 mm) |
| Reach, 45° dump angle, 7-ft. (2.13 m) height | 64.3" (1633 mm) | 66.7" (1694 mm) | 65.3" (1659 mm) | 67.6" (1716 mm) | 66.4" (1686 mm) |
| K. Overall height, bucket @ full height | 203.4" (5166 mm) | 203.4" (5166 mm) | 205.7" (5225 mm) | 205.7" (5225 mm) | 208.5" (5296 mm) |
| L. Hinge pin height, fully raised | 156.6" (3978 mm) | 156.6" (3978 mm) | 156.6" (3978 mm) | 156.6" (3978 mm) | 156.6" (3978 mm) |
| M. Overall length, bucket on ground | 299.2" (7600 mm) | 305.1" (7750 mm) | 301.2" (7650 mm) | 307.0" (7650 mm) | 303.5" (7709 mm) |
| N. Clearance circle, bucket @ carry | 496.4" (12,609 mm) | 501.1" (12,728 mm) | 497.5" (12,637 mm) | 502.3" (12,758 mm) | 498.9" (12,672 mm) |
| Hydraulic Lifting Capacity @ Full Height | 16,265 lb. (7378 kg) | 16,072 lb. (7290 kg) | 16,157 lb. (7329 kg) | 15,964 lb. (7241 kg) | 16,000 lb. (7258 kg) |
| Hydraulic Lifting Capacity @ Max. Reach | 22,665 lb. (10,281 kg) | 22,469 lb. (10,192 kg) | 22,551 lb. (10,229 kg) | 22,355 (10,140 kg) | 22,386 lb. (10,154 kg) |
| Hydraulic Lifting Capacity @ Ground Level | 30,236 lb. (13,715 kg) | 30,032 lb. (13,622 kg) | 30,001 lb. (13,608 kg) | 29,799 lb. (13,517 kg) | 29,696 lb. (13,470 kg) |
| Max. dump angle @ full height | 55° | 55° | 55° | 55° | 55° |
| Max. Rollback @ full height | 57° | 57° | 57° | 57° | 57° |
| Max. Rollback @ max. reach | 54° | 54° | 54° | 54° | 54° |
| O. Max. Rollback @ carry | 43° | 43° | 43° | 43° | 43° |
| Max. Rollback @ ground | 40° | 40° | 40° | 40° | 40° |
| P. Digging depth | 3" (76 mm) | 3.3" (84 mm) | 3" (76 mm) | 3.3" (84 mm) | 3" (76 mm) |
| Operating weight | 30,707 lb. (13,928 kg) | 30,899 lb. (14,016 kg) | 30,815 lb. (13,977 kg) | 31,007 lb. (14,065 kg) | 30,972 lb. (14,049 kg) |

ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH PIN-ON BUCKETS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | |
|------------------|---|------------------------|-----------------------------|
| | Operating Weight | Tipping Load, Straight | Tipping Load, 40° Full Turn |
| 20.5x25 L2 | -480 lb. (-218 kg) | -390 lb. (-177 kg) | -345 lb. (-156 kg) |
| 20.5x25 L3 | -152 lb. (-69 kg) | -124 lb. (-56 kg) | -109 lb. (-50 kg) |
| 20.5R25 XTLA TL | -380 lb. (-172 kg) | -309 lb. (-140 kg) | -273 lb. (-124 kg) |
| 20.5x25 GP-2B TL | -204 lb. (-92 kg) | -166 lb. (-75 kg) | -147 lb. (-67 kg) |
| 20.5x25 RT-3B TL | +140 lb. (+64 kg) | +113 lb. (+51 kg) | +100 lb. (+45 kg) |

ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH COUPLER 48" UTILITY FORKS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | |
|------------------|---|------------------------|-----------------------------|
| | Operating Weight | Tipping Load, Straight | Tipping Load, 40° Full Turn |
| 20.5x25 L2 | -480 lb. (-218 kg) | -274 lb. (-124 kg) | -201 lb. (-91 kg) |
| 20.5x25 L3 | -152 lb. (-69 kg) | +12 lb. (+6 kg) | +75 lb. (+34 kg) |
| 20.5R25 XTLA TL | -380 lb. (-172 kg) | -276 lb. (-125 kg) | -277 lb. (-126 kg) |
| 20.5x25 GP-2B TL | -204 lb. (-92 kg) | -90 lb. (-41 kg) | -38 lb. (-17 kg) |
| 20.5x25 RT-3B TL | +140 lb. (+64 kg) | +181 lb. (+82 kg) | +288 lb. (+131 kg) |

Note: Above data is based on loader equipped with 20.5R25 XHATL Michelin radial tires, ROPS cab with heater & A/C, auxiliary steering, front and rear fenders, full fuel, 175 lb. operator. Specifications per ISO 13497 unless otherwise noted.

W170B Specifications

PERFORMANCE DATA: PIN-ON BUCKETS (see diagram on page 10)

| KEY | Bucket Type/Size | | | |
|--|---------------------------|------------------------|----------------------------------|------------------------|
| | Excavating w/Bolt-on Edge | | Excavating w/ Teeth and Segments | |
| Capacity, heaped(SAE) | 3.0 yd ³ | (2.3 m ³) | 3.0 yd ³ | (2.3 m ³) |
| Capacity, struck (SAE) | 2.58 yd ³ | (1.95 m ³) | 2.58 yd ³ | (1.95 m ³) |
| Bucket width | 106.3" | (2700 mm) | 107.7" | (2736 mm) |
| Bucket weight with coupler | 3689 lb. | (1673 kg) | 3654 lb. | (1657 kg) |
| Breakout force | 28,770 lb. | (13,050 kg) | 26,011 lb. | (11,798 kg) |
| Tipping load, straight (ISO) | 25,558 lb. | (11,593 kg) | 25,597 lb. | (11,611 kg) |
| Tipping load @ 40° full turn (ISO) | 22,163 lb. | (10,053 kg) | 22,201 lb. | (10,070 kg) |
| I. Dump clearance, 45° dump angle-full height | 112.1" | (2847 mm) | 108.3" | (2751 mm) |
| J. Reach, 45° dump angle, full height | 47.8" | (1214 mm) | 51.8" | (1316 mm) |
| Reach, 45° dump angle, 7-ft. (2.13 m) height | 67.3" | (1709 mm) | 69.4" | (1763 mm) |
| K. Overall height, bucket @ full height | 208.8" | (5304 mm) | 208.8" | (5304 mm) |
| L. Hinge pin height, fully raised | 156.5" | (3975 mm) | 156.5" | (3975 mm) |
| M. Overall length, bucket on ground | 306" | (7772 mm) | 311.8" | (7920 mm) |
| N. Clearance circle, bucket @ carry | 499.7" | (12,692 mm) | 503.1" | (12,779 mm) |
| Hydraulic Lifting Capacity @ Full Height | 15,036 lb. | (6820 kg) | 15,072 lb. | (6837 kg) |
| Hydraulic Lifting Capacity @ Max. Reach | 21,333 lb. | (9677 kg) | 21,369 lb. | (9693 kg) |
| Hydraulic Lifting Capacity @ Ground Level | 28,206 lb. | (12,794 kg) | 28,268 lb. | (12,822 kg) |
| Max. dump angle @ full height | 52° | | 52° | |
| Max. Rollback @ full height | 57° | | 57° | |
| Max. Rollback @ max. reach | 54° | | 54° | |
| O. Max. Rollback @ carry | 43° | | 43° | |
| Max. Rollback @ ground | 40° | | 40° | |
| P. Digging depth | 3.2" | (81 mm) | 3.5" | (89 mm) |
| Operating weight | 31,889 lb. | (14,465 kg) | 31,854 lb. | (14,449 kg) |

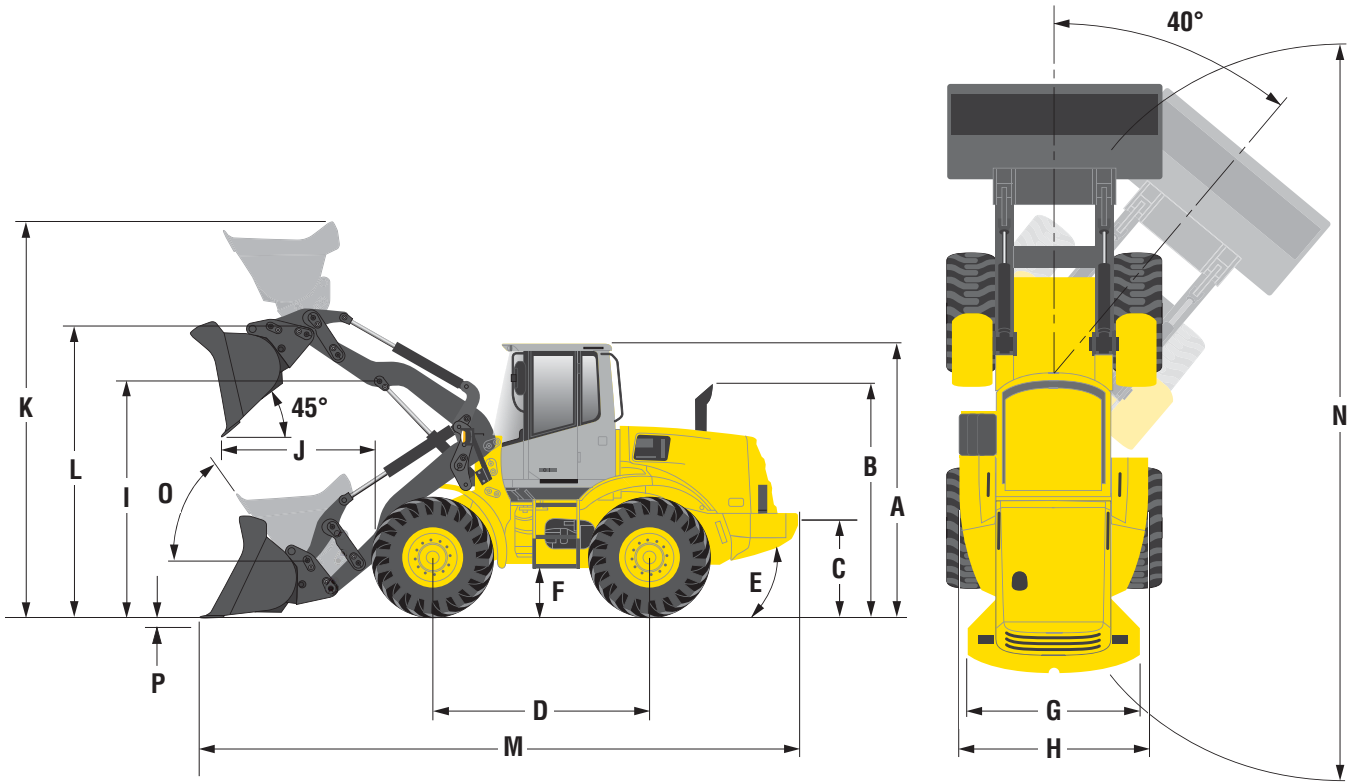
ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH PIN-ON BUCKETS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | | | | |
|------------------|---|----------|------------------------|----------|-----------------------------|----------|
| | Operating Weight | | Tipping Load, Straight | | Tipping Load, 40° Full Turn | |
| 20.5x25 L2 | 252 lb. | (114 kg) | 192 lb. | (87 kg) | 169 lb. | (77 kg) |
| 20.5x25 L3 | 606 lb. | (275 kg) | 461 lb. | (209 kg) | 407 lb. | (185 kg) |
| 20.5R25 XTLA TL | 380 lb. | (172 kg) | 289 lb. | (131 kg) | 255 lb. | (116 kg) |
| 20.5x25 GP-2B TL | -100 lb. | (-46 kg) | -76 lb. | (-34 kg) | -67 lb. | (-30 kg) |
| 20.5x25 GP-3B TL | 228 lb. | (103 kg) | 174 lb. | (79 kg) | 153 lb. | (69 kg) |

Note: Above data is based on loader equipped with 23.5R25 XHATL Michelin radial tires, ROPS cab with heater & A/C, auxiliary steering, front and rear fenders, full fuel, 175 lb. operator. Specifications per ISO 13497 unless otherwise noted.

W170BTC Specifications

DIMENSIONS



DIMENSIONS

| | | | |
|-----------------------------|------------------|---------------------------------|------------------|
| A. Height to top of cab | 134" (3429 mm) | Turning radius-outside of tires | 226.4" (5750 mm) |
| B. Height to top of exhaust | 115" (2921 mm) | F. Ground clearance | 18.7" (474 mm) |
| C. Height to drawbar | 40.5" (1028 mm) | G. Tread width | 79.9" (2030 mm) |
| D. Wheelbase | 128.1" (3253 mm) | H. Width over tires | 100.9" (2562 mm) |
| E. Rear departure angle | 33° | | |

DIMENSIONS WITH PALLET FORKS

| | | | |
|-----------------------------------|------------------|---------------------------------|------------------|
| Ground to top of tine (full lift) | 148.9" (3782 mm) | Height to top of cab | 133.9" (3400 mm) |
| Pallet fork length | 48" (1219 mm) | Fork reach at full height | 42.6" (1083 mm) |
| Wheelbase | 114.2" (2900 mm) | Fork reach with tines on ground | 44.6" (1134 mm) |
| Ground clearance | 18.7" (474 mm) | | |

W170BTC Specifications

PERFORMANCE DATA: COUPLER BUCKETS (see diagram on page 11)

| KEY | Bucket Type/Size | | | |
|---|---|---|---|---|
| | JRB General Purpose w/Bolt-on Edge | JRB General Purpose w/Teeth | ACS General Purpose w/Bolt-on Edge | ACS General Purpose Bucket w/Teeth |
| Capacity, heaped (SAE) | 2.96 yd ³ (2.26 m ³) | 2.96 yd ³ (2.26 m ³) | 2.96 yd ³ (2.26 m ³) | 2.96 yd ³ (2.26 m ³) |
| Capacity, struck (SAE) | 2.58 yd ³ (1.97 m ³) | 2.58 yd ³ (1.97 m ³) | 2.58 yd ³ (1.97 m ³) | 2.58 yd ³ (1.97 m ³) |
| Bucket width | 106.3" (2701 mm) | 106.3" (2701 mm) | 105.6" (2682 mm) | 105.6" (2682 mm) |
| Bucket weight | 3210 lb. (1456 kg) | 3267 lb. (1482 kg) | 3744 lb. (1698 kg) | 3744 lb. (1698 kg) |
| Breakout force | 30,407 lb. (13,792 kg) | 27,357 lb. (12,409 kg) | 28,046 lb. (12,721 kg) | 25,547 lb. (11,588 kg) |
| Tipping load, straight (ISO) | 25,233 lb. (11,446 kg) | 25,164 lb. (11,414 kg) | 24,348 lb. (11,044 kg) | 24,386 lb. (11,061 kg) |
| Tipping load @ 40° full turn (ISO) | 21,952 lb. (9957 kg) | 21,883 lb. (9926 kg) | 21,129 lb. (9584 kg) | 21,168 lb. (9602 kg) |
| I. Dump clearance, 45° dump angle-full height | 116.5" (2960 mm) | 112.6" (2860 mm) | 115.3" (2929 mm) | 111.6" (2834 mm) |
| J. Reach, 45° dump angle, full height Reach, 45° dump angle, 7-ft. (2.13 m) height | 46.5" (1182 mm) | 50.7" (1288 mm) | 50.4" (1279 mm) | 54.4" (1381 mm) |
| K. Overall height, bucket @ full height | 69.0" (1753 mm) | 71.3" (1811 mm) | 72.3" (1836 mm) | 74.4" (1891 mm) |
| L. Hinge pin height, fully raised | 217.4" (5522 mm) | 217.4" (5522 mm) | 217.7" (5531 mm) | 217.7" (616 l mm) |
| M. Overall length, bucket on ground | 163.7" (4158 mm) | 163.7" (4158 mm) | 163.7" (4157 mm) | 163.7" (4157 mm) |
| N. Clearance circle, bucket @ carry | 309.3" (7857 mm) | 315.3" (8008 mm) | 311.8" (7919 mm) | 317.5" (8065 mm) |
| Hydraulic Lifting Capacity @ Full Height | 495.0" (12,574 mm) | 497.6" (12,639 mm) | 494.9" (12,571 mm) | 497.4" (12,634 mm) |
| Hydraulic Lifting Capacity @ Max. Reach | 14,783 lb. (6705 kg) | 14,721 lb. (6677 kg) | 14,014 lb. (6357 kg) | 14,051 lb. (6373 kg) |
| Hydraulic Lifting Capacity @ Ground Level | 20,421 lb. (9263 kg) | 20,362 lb. (9236 kg) | 19,778 lb. (8971 kg) | 19,813 (8987 kg) |
| Max. dump angle @ full height | 30,653 lb. (13,904 kg) | 30,493 lb. (13,831 kg) | 31,073 lb. (14,095 kg) | 30,974 lb. (14,049 kg) |
| Max. Rollback @ full height | 55° | 55° | 55° | 55° |
| Max. Rollback @ max. reach | 58° | 58° | 57° | 57° |
| O. Max. Rollback @ carry | 54° | 54° | 54° | 54° |
| Max. Rollback @ ground | 58° | 58° | 57° | 57° |
| P. Digging depth | 58° | 58° | 58° | 58° |
| Operating weight | 4.7" (119 mm) | 5.0" (128 mm) | 3.2" (80 mm) | 3.5" (88 mm) |
| | 31,640 lb. (14,351 kg) | 31,697 lb. (14,377 kg) | 32,173 lb. (14,594 kg) | 32,138 lb. (14,578 kg) |

ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH COUPLER BUCKETS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | |
|-------------------------|---|------------------------|-----------------------------|
| | Operating Weight | Tipping Load, Straight | Tipping Load, 40° Full Turn |
| 20.5R25 GP-2B GOODYEAR | 252 lb. (114 kg) | 192 lb. (87 kg) | 169 lb. (77 kg) |
| 20.5R25 RT-3B GOODYEAR | 606 lb. (275 kg) | 461 lb. (209 kg) | 407 lb. (185 kg) |
| 20.5R25 XHA TL MICHELIN | 380 lb. (172 kg) | 289 lb. (131 kg) | 255 lb. (116 kg) |
| 20.5X25 12 PLY L2 | -100 lb. (-46 kg) | -76 lb. (-34 kg) | -67 lb. (-30 kg) |
| 20.5X25 12 PLY L3 | 228 lb. (103 kg) | 174 lb. (79 kg) | 153 lb. (69 kg) |

Note: Specification data is based on loader equipped with 20.5R25 (12 ply) XHA Michelin radial tires, ROPS cab with heater, standard counterweight, standard battery, lights, auxiliary steering, front and rear fenders, full fuel, 175 lb operator.

W170BTC Specifications

DIMENSIONS AND PERFORMANCE DATA WITH 48" UTILITY FORKS AND ACS COUPLER

| | | |
|--|------------|-------------|
| Fork length - vertical front, surface of tine to fork tip | 48.0" | (1219 mm) |
| Fork width (max), outside to outside of tine | 60.0" | (1524 mm) |
| Overall height - operating top of attachment, forks level | 159.1" | (4042 mm) |
| Fork clearance @ full height ground to top of tine | 155.6" | (3953 mm) |
| Fork reach @ full height – vertical, front surface of tine to front of tire | 36.3" | (922 mm) |
| Fork clearance @ max reach, ground to top of tine | 76.1" | (1933 mm) |
| Fork reach (Max) - vertical front surface of tine to front of tire | 69.0" | (1753 mm) |
| Fork reach @ ground – vertical front surface of tine to front of tire | 41.1" | (1044 mm) |
| Fork load center - vertical front surface of tine to load CG | 24.0" | (610 mm) |
| Carry position - hinge pin height | 27.7" | (702 mm) |
| Clearance circle forks w/forks in carry position with 15° rollback (turning dia.-wall to wall) | 487.1" | (12,372 mm) |
| Fork attachment weight includes coupler | 2,133 lb. | (986 kg) |
| Operating load - (per EN 474-3): | | |
| Rough terrain | 8,985 lb. | (4076 kg) |
| Firm and level ground | 11,980 lb. | (5434 kg) |
| Tipping load straight ISO | 17,745 lb. | (8049 kg) |
| Tipping load @ 40° turn ISO | 15,006 lb. | (6807 kg) |
| Operating weight | 30,562 lb. | (13,863 kg) |

ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH COUPLER AND 48" FORKS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | |
|-------------------------|---|------------------------|-----------------------------|
| | Operating Weight | Tipping Load, Straight | Tipping Load, 40° Full Turn |
| 20.5R25 GP-2B GOODYEAR | 252 lb. (114 kg) | 209 lb. (95 kg) | 225 lb. (102 kg) |
| 20.5R25 RT-3B GOODYEAR | 606 lb. (275 kg) | 391 lb. (177 kg) | 386 lb. (175 kg) |
| 20.5R25 XHA TL MICHELIN | 380 lb. (172 kg) | 270 lb. (123 kg) | 281 lb. (127 kg) |
| 20.5X25 12 PLY L2 | -100 lb. (-45 kg) | -63 lb. (-28 kg) | -26 lb. (-12 kg) |
| 20.5X25 12 PLY L3 | 228 lb. (104 kg) | 320 lb. (145 kg) | 394 lb. (179 kg) |

Note: Specification data is based on loader equipped with 20.5R25 (12 ply) XHA Michelin radial tires, ROPS cab with heater & A/C, counterweight, standard battery, lights, auxiliary steering, front and rear fenders, full fuel, 175 lb operator.

ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH COUPLER AND 48" UTILITY FORKS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | |
|-------------------|---|------------------------|-----------------------------|
| | Operating Weight | Tipping Load, Straight | Tipping Load, 40° Full Turn |
| 20.5X25 12PLY L2 | -480 lb. (-218 kg) | -274 lb. (-124 kg) | -201 lb. (-91 kg) |
| 20.5X25 12 PLY L3 | -152 lb. (-69 kg) | +12 lb. (+6 kg) | +75 lb. (+34 kg) |
| 20.5R25 XHA TL | -380 lb. (-172 kg) | -276 lb. (-125 kg) | -277 lb. (-126 kg) |
| 20R25 GP-28 TL | -204 lb. (-92 kg) | -90 lb. (-41 kg) | -38 lb. (-17 kg) |
| 20.5R25 RT-38 TL | +140 lb. (+64 kg) | +181 lb. (+82 kg) | +288 lb. (+131 kg) |

Note: Specification data is based on loader equipped with 20.5R25 XHA Michelin radial tires, ROPS cab with heater & A/C, front and rear fenders, full fuel, 175 lb operator. Specifications per ISO 13497 unless otherwise noted.

W170B W170BTC Specifications

ENGINE

| | |
|---------------------------------------|---|
| Make and Model..... | New Holland 667TA/EB3 EPA Tier III certified |
| Cylinders | 6 |
| Displacement | 411 cu. in. (6.7 L) |
| Bore x Stroke | 4.09" (104 mm) x 5.20" (132 mm) |
| Power | |
| <u>Standard:</u> | |
| Rated Gross (per SAE J1995) | 181 hp (135 kW) @ 2000 rpm |
| Peak Gross (per SAE J1995)..... | 182 hp (136 kW) @ 1900 rpm |
| Rated Net (per SAE J1349) | 169 hp (126 kW) @ 2000 rpm |
| Peak Net (per SAE J1349)..... | 172 hp (128 kW) @ 1800 rpm |
| <u>Boosted Power:</u> | |
| Rated/Peak Gross (per SAE J1995)..... | 195 hp (145 kW) @ 2000 rpm |
| Rated/Peak Net (per SAE J1349)..... | 183 hp (137 kW) @ 2000 rpm |
| <u>Economy:</u> | |
| Rated Gross (per SAE J1995) | 136 hp (101 kW) @ 2000 rpm |
| Peak Gross (per SAE J1995)..... | 157 hp (117 kW) @ 1500 rpm |
| Rated Net (per SAE J1349) | 124 hp (93 kW) @ 2000 rpm |
| Peak Net (per SAE J1349)..... | 149 hp (111 kW) @ 1500 rpm |
| Torque, Max. | |
| <u>Standard:</u> | |
| Gross (per SAE J1995) | 625 lb-ft (847 N-m) @ 1400 rpm |
| Net (per SAE J1349)..... | 596 lb-ft (809 N-m) @ 1300 rpm |
| <u>Boosted:</u> | |
| Gross (per SAE J1995) | 636 lb-ft (862 N-m) @ 1400 rpm |
| Net (per SAE J1349)..... | 605 lb-ft (821 N-m) @ 1400 rpm |
| <u>Economy:</u> | |
| Gross (per SAE J1995) | 614 lb-ft (832 N-m) @ 1200 rpm |
| Net (per SAE J1349)..... | 590 lb-ft (800 N-m) @ 1200 rpm |
| Torque Rise | 25% |
| Fuel Injection..... | Electronic, common rail injection, diesel |
| Fuel Filter | Full-flow spin-on cartridge |
| Lube System | Full-flow spin-on filter cartridge with integral cooler |
| Aspiration | Turbocharged, air to air cooled |
| Air Cleaner..... | Dry type elements with warning restriction indicator |
| Advanced Cooling System..... | Independent mounted coolers, mid-mounted |
| Fan | Hydraulically driven suction fan, 28" (711mm) diameter, purge feature (optional) |
| Radiator | 5 rows, 9 fins/in. |

TRANSMISSION

| | |
|-------------------------------------|--|
| Type | Countershaft, power shift |
| Torque Converter | Single-phase, single-stage, 2.81:1 stall ratio |
| Shift Control System..... | Electronic control module, torque sensing, manual or automatic shifting |
| Control location | Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick |
| Travel speeds with 20.5x25 L3 tires | |
| | Forward Reverse |
| Gear 1 | 4.7 mph (7.6 km/h) 5.0 mph (8.0 km/h) |
| Gear 2 | 8.3 mph (13.4 km/h) 8.7 mph (14.0 km/h) |
| Gear 3 | 15.3 mph (24.6 km/h) 16.0 mph (25.8 km/h) |
| Gear 4 | 23.5 mph (37.8 km/h) |

AXLES/BRAKES

| | |
|----------------------------|---|
| Differentials..... | Limited slip, front and rear |
| Final drives | Heavy-duty out board planetary reduction |
| Rear axle oscillation..... | 24 degrees total, 35.4" (899 mm) maximum vertical travel at wheel |
| Brakes | |
| Service brakes | Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with SAE J1473 and ISO 3450 |
| Parking brake..... | Spring applied, hydraulically released, acting on transmission output shaft |

ELECTRICAL

| | |
|------------------------------|---|
| Electrical system..... | 24 volt, negative ground with 70-amp alternator |
| Batteries (two 12 volt)..... | 700 CCA; 170 Ah |

HYDRAULIC SYSTEMS/STEERING

| | |
|--------------------------------|--|
| Pump (steering/implement)..... | Variable-displacement, piston pump |
| Maximum flow | 31.6 gpm (120 L/m) @ 2000 rpm and 3600 psi (24822 kPa) |
| Pump (implement) | |
| Maximum flow | 22.6 gpm (85.6 L/m) @ 2000 rpm and 2800 psi (19305 kPa) |
| Pressure | Loader relief: 3625 psi (25,000 kPa); steering relief: 3500 psi (24 132 kPa) |
| Valves | Closed-center, load sensing; positive low pressure regeneration for bucket dump |
| Loader controls | Standard two-function valve; single- and dual-lever controls |
| | Optional third-function valve; with auxiliary lever |
| | Pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout |
| Hydraulic cycle times | |
| Raise-loaded..... | 5.6 sec. |
| Dump- loaded..... | 2.4 sec. |
| Lower-empty, power down | 3.29 sec. |
| Lower-empty, float down | 3.29 sec. |
| Steering | |
| Type | Hydraulic orbital, load sensing, 40° center pivot articulation |
| Filtration | 10 -micron, full flow cartridge filter on return line |

HYDRAULIC CYLINDERS

| | |
|---|---|
| Lift Cylinders, bore x stroke x rod | 4.75" (121 mm) x 32.6" (828 mm) x 3.0" (76 mm) |
| Dump Cylinder, bore x stroke x rod | 5.75" (146 mm) x 24.8" (629 mm) x 3.0" (76 mm) |
| Steering Cylinders, bore x stroke x rod | 3.0" (76 mm) x 19.1" (485 mm) x 1.75" (44 mm) |

SERVICE CAPACITIES

| | |
|--------------------------------|---------------------|
| Fuel tank | 66.9 gal. (253 L) |
| Engine oil | 14 qt. (13.25 L) |
| Engine oil with filter | 16 qt. (15.1 L) |
| Transmission with filter | 6.75 gal. (236 L) |
| Cooling system | 9.75 gal. (36.9 L) |
| Hydraulic | 27.9 gal. (105.7 L) |
| Hydraulic system | 51.0 gal. (139.1 L) |
| Axles (total), each | |
| Front | 32.0 qt. (30.3 L) |
| Rear | 29.0 qt. (27.4 L) |

W170B W170BTC Base & Optional Equipment

BASE EQUIPMENT

ENGINE:

New Holland 667TA/EB3
EPA off-road certified, Tier III
Displacement: 411 cu in (6.7 L)
Power

Standard:

Rated Gross 181 hp (135 kW)
@ 2000 rpm
Peak Gross 182 hp (136 kW)
@ 1900 rpm
Rated Net 169 hp (126 kW)
@ 2000 rpm
Peak Net 172 hp (128 kW)
@ 1800 rpm

Boosted Power:

Rated/Peak Gross 195 hp
(145 kW) @ 2000 rpm
Rated/Peak Net 183 hp
(137 kW) @ 2000 rpm

Economy:

Rated Gross 136 hp (101 kW)
@ 2000 rpm
Peak Gross 157 hp (117 kW)
@ 1500 rpm
Rated Net 124 hp (93 kW)
@ 2000 rpm
Peak Net 149 hp (111 kW)
@ 1500 rpm

Torque, Max.

Standard:

Gross 625 lb-ft (847 N-m)
@ 1400 rpm
Net 596 lb-ft (809 N-m)
@ 1300 rpm

Boosted:

Gross 636 lb-ft (862 N-m)
@ 1400 rpm
Net 605 lb-ft (821 N-m)
@ 1400 rpm

Economy:

Gross 614 lb-ft (832 N-m)
@ 1200 rpm
Net 590 lb-ft (800 N-m)
@ 1200 rpm

Air-to-Air after cooler

Air cleaner - 2 stage w/radial seal elements

Anti-freeze solution -34°F (-37°C)

Cold weather starting aid, grid heater

Electronic fuel injection

Hydraulically driven suction fan w/ guard

Advanced Cooling System (ACS)

DRIVE TRAIN:

AXLES & TIRES:

Limited slip differentials - front and rear

Maintenance free driveshafts

Axle dipsticks

3-piece wheels

TRANSMISSION:

Speeds: 4F-3R
Computer controlled, full-power, proportional shifting
Single lever electronic shift control
Programmable gear selection
Selectable fully-automatic and manual modes
Electronic transmission disconnect
On-board diagnostics with fault code storage and retrieval
Single, vertically mounted, spin-on oil filter
Oil cooler

HYDRAULICS:

Pilot-operated joystick control
2-spool valve
Pressure compensated, load sensing hydraulics
Wide-angle steering system
Vertically mounted, spin-on oil filter
Hydraulic diagnostic quick couplers
O-ring face seal hydraulic fittings
Full-flow oil cooler
Steering system priority

LOADER SYSTEM:

Automatic return-to-dig, automatic height control, and automatic return-to-travel
Position indicator on bucket
Single lever / two spool loader control
Z-bar loader linkage
Single piece, flame cut, loader arms
Ground level lubrication points

BRAKES:

4-Wheel, outboard mounted, wet disc hydraulic brakes
Parking brake, spring applied hydraulic release
Separate front and rear brake systems

ELECTRICAL SYSTEM:

24-volt system
Two Heavy Duty 12V 700 cold cranking amp (CCA) batteries
Halogen lights:
Two front and two rear worklights
Two front driving (hi/lo beam)
Stop/tail lights and backup lights
Front and rear turn signals and flashers
Alternator: 70 amp
Electrical disconnect switch
Horn
Backup alarm

BASE EQUIPMENT (continued)

OPERATOR STATION

ROPS cab with heater
Inside rearview mirror
Cloth mechanical suspension seat, w/ 51 mm (2 in.) seatbelt
Storage tray, cup holder
Tilt steering wheel w/integral steering knob
Fully adjustable wrist rest
Cigar/cigarette lighter-24 volt
Wiring & speaker covers for radio installation

INSTRUMENTS

Individual gauges for:
1. Engine coolant temp.
2. Fuel level
3. Hour meter
4. Speedometer
5. Trans. Oil temp.
Indicator Lights for:
1. Air filter restriction

2. Battery charge
3. Brake oil pressure
4. Emergency Steering (if equipped)
5. Engine coolant temp.
6. Engine oil pressure
7. Fuel level
8. General alarm
9. High beam
10. Parking break
11. Trans. Oil temp.
12. Trans. speed
13. Turn signals

OTHER EQUIPMENT

Articulation and loader lift arm locking bars
Drawbar hitch
Front and rear fenders, left side steps
Remote drain points
Front and rear lift and tie down points

OPTIONAL EQUIPMENT

OPERATOR STATION

Air conditioning for ROPS cab
Mechanical suspension seat,
Cloth covered with 3" retractable belt
Air suspension seat,
Cloth covered with 2" retractable belt
Cloth covered with 3" retractable belt
AM/FM cassette stereo radio, 24 volt
Power converter 24V-12V with outlet
Fire extinguisher
Rotating beacon light

ENGINE

Cold weather starting aid, block heater
Pre-cleaner, full view
Reversing fan (purge feature)
Spark arresting muffler

HYDRAULICS

Hydraulic diagnostics panel
Hydraulic pin-puller circuit for use with coupler
Load Travel Stabilizer (LTS)
Secondary steering
Valve, 2 spool 2 lever control
Valve, 3 spool 3 lever control
Valve, 3 spool joystick + 1 lever control

AXLES & TIRES

20.5x25, 12 PR L3 bias ply, rock tread, 3-pc rim
20.5R25, GP2B radial, traction tread, 3-pc rim
20.5R25, XTLA radial, traction tread, 3-pc rim
20.5R25, RT-3B TL radial, rock tread, 3-pc rim
20.5R25, XHA radial, rock tread, 3-pc rim
Spare tires and wheels

BUCKETS AND ATTACHMENTS

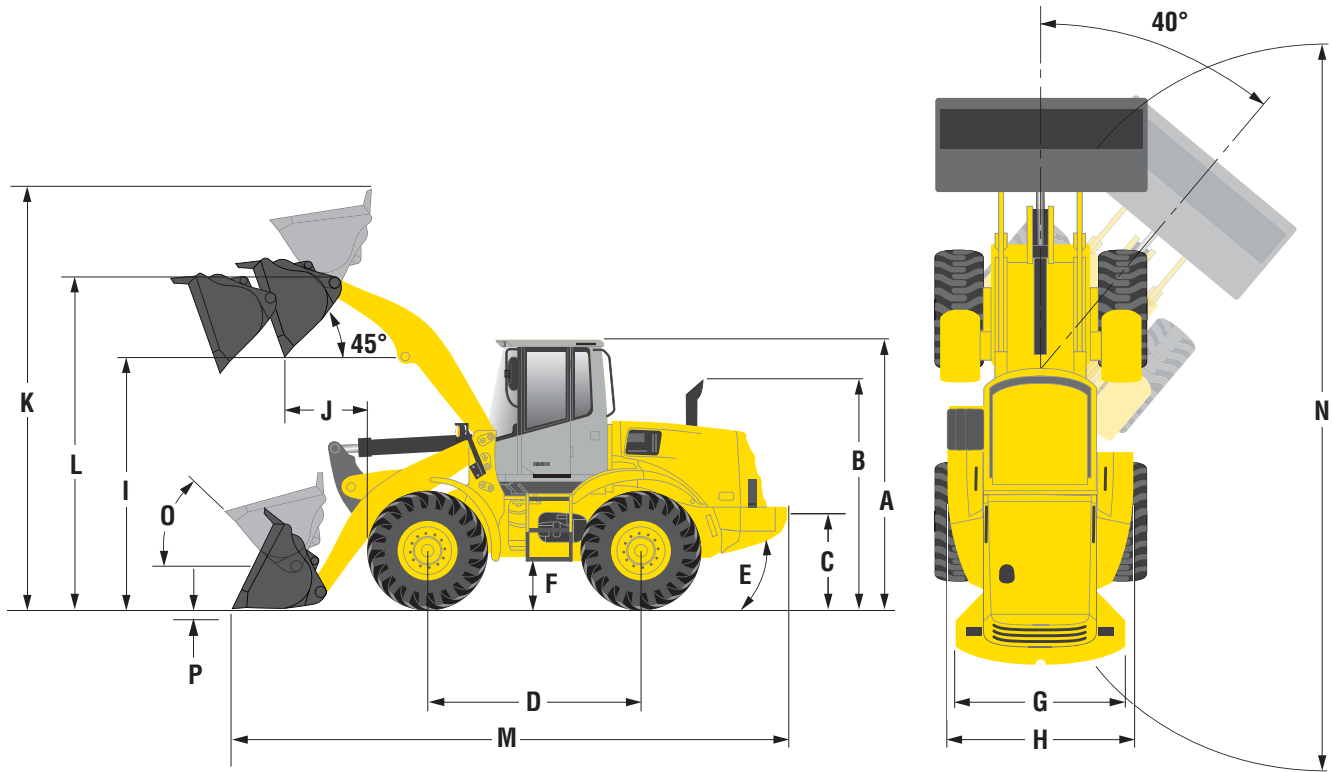
Pin-on buckets, see page three
JRB hydraulic quick coupler with pin-puller circuit
JRB 3.0 yd³ general purpose coupler bucket
ACS attachments are available through your New Holland Construction Dealer

OTHER EQUIPMENT

Standard fenders with RH and LH steps
Rear frame articulation joint side covers
Axle stops for use with 20.5 tires with chains
Tool box
Transmission bottom guard
Special paint, other than standard New Holland yellow

W190B Specifications

DIMENSIONS



DIMENSIONS

| | | | |
|-----------------------------|------------------|---------------------------------|------------------|
| A. Height to top of cab | 136.5" (3467 mm) | Turning radius-outside of tires | 237.5" (6032 mm) |
| B. Height to top of exhaust | 116.7" (2963 mm) | F. Ground clearance | 16.4" (415.8 mm) |
| C. Height to drawbar | 42.4" (1078 mm) | G. Tread width | 87.8" (2230 mm) |
| D. Wheelbase | 131.5" (3340 mm) | H. Width over tires | 113.6" (2885 mm) |
| E. Rear departure angle | 34° | | |

PERFORMANCE DATA: COUPLER BUCKETS

| KEY | Bucket Type/Size | |
|---|---|---|
| | Excavating w/Bolt-on Edge | Excavating w/Teeth and Segments |
| Capacity, heaped (SAE) | 3.77 yd ³ (3.44m ³) | 3.77 yd ³ (3.44 m ³) |
| Capacity, struck (SAE) | 3.17 yd ³ (2.89 m ³) | 3.17 yd ³ (2.89 m ³) |
| Bucket width | 119.3" (3030 mm) | 120" (3048 mm) |
| Bucket Weight, with coupler | 4,338 lb. (1968 kg) | 4,514 lb. (2048 kg) |
| Breakout force | 34,785 lb. (15,778 kg) | 31,191 lb. (14,148 kg) |
| Tipping load, straight (ISO) | 30,055 lb. (13,633 kg) | 29,824 lb. (13,528 kg) |
| Tipping load @ 40° full turn (ISO) | 25,873 lb. (11,736 kg) | 25,642 lb. (11,631kg) |
| I. Dump clearance, 45° dump angle-full height | 117.2" (2979 mm) | 113.4" (2880 mm) |
| J. Reach, 45° dump angle, full height | 45.7" (1161 mm) | 49.8" (1265 mm) |
| Reach, 45° dump angle, 7-ft. (2.13 m) height | 69.1" (1552 mm) | 71.2" (1808 mm) |
| K. Overall height, bucket @ full height | 214.8" (5456 mm) | 214.8" (5456 mm) |
| L. Hinge pin height, fully raised | 162.3" (4122 mm) | 162.3" (4122 mm) |
| M. Overall length, bucket on ground | 309.8" (7869 mm) | 315.7" (8019 mm) |
| N. Clearance circle, bucket @ carry | 523" (13,284 mm) | 527.1" (13,388 mm) |
| Hydraulic Lifting Capacity @ Full Height | 19,993 lb. (9069 kg) | 19,815 lb. (8968 kg) |
| Hydraulic Lifting Capacity @ Max. Reach | 26,739 lb. (12,129 kg) | 26,557 lb. (12,049 kg) |
| Hydraulic Lifting Capacity @ Ground Level | 34,387 lb. (15,598 kg) | 34,215 lb. (15,520 kg) |
| Max. dump angle @ full height | 55° | 55° |
| Max. Rollback @ full height | 59° | 59° |
| Max. Rollback @ max. reach | 54° | 54° |
| O. Max. Rollback @ carry | 44° | 44° |
| Max. Rollback @ ground | 41° | 41° |
| P. Digging depth | 2.8" (71 mm) | 3.2" (81 mm) |
| Operating weight | 39,074 lb. (17,724 kg) | 39,250 lb. (17,804 kg) |

W190B Specifications

PERFORMANCE DATA: PIN-ON BUCKETS

| KEY | Bucket Type/Size | | | | |
|---|---|---|---|---|---|
| | General Purpose w/Bolt-on Edge | General Purpose w/Teeth and Segments | General Purpose w/Bolt-on Edge | General Purpose w/Teeth and Segments | Stockpiling w/Bolt-on Edge |
| Capacity, heaped (SAE) | 3.44 yd ³ (3.15 m ³) | 3.44 yd ³ (3.15 m ³) | 4.15 yd ³ (3.79 m ³) | 4.15 yd ³ (3.79 m ³) | 4.43 yd ³ (2.29 m ³) |
| Capacity, struck (SAE) | 2.9 yd ³ (2.65 m ³) | 2.9 yd ³ (2.65 m ³) | 3.54 yd ³ (3.23 m ³) | 3.54 yd ³ (3.23 m ³) | 3.78 yd ³ (1.96 m ³) |
| Bucket width | 115.3" (2929 mm) | 120" (3048 mm) | 115.3" (2929 mm) | 120" (3048 mm) | 115.3" (2602 mm) |
| Bucket weight | 3,107 lb. (1409 kg) | 3,225 lb. (1463 kg) | 3,442 lb. (1561 kg) | 3,560 lb. (1615 kg) | 3,508 lb. (884 kg) |
| Breakout force | 40,738 lb. (18,478 kg) | 36,332 lb. (16,480 kg) | 35,408 lb. (16,061 kg) | 31,977 lb. (14,505 kg) | 34,416 lb. (10,613 kg) |
| Tipping load, straight (ISO) | 32,178 lb. (14,596 kg) | 32,025 lb. (14,526 kg) | 31,639 lb. (14,351 kg) | 31,482 lb. (14,280 kg) | 31,376 lb. (14,232 kg) |
| Tipping load @ 40° full turn (ISO) | 27,864 lb. (12,369 kg) | 27,711 lb. (12,570 kg) | 27,348 lb. (12,405 kg) | 27,190 lb. (12,333 kg) | 27,110 lb. (12,297 kg) |
| I. Dump clearance, 45° dump angle-full height | 121.5" (3086 mm) | 118.1" (3000 mm) | 117.5" (2985 mm) | 114.1" (2898 mm) | 116.6" (2962 mm) |
| J. Reach, 45° dump angle, full height | 38.8" (986mm) | 42.8" (1087 mm) | 43.6" (1107 mm) | 47.6" (1209 mm) | 44.6" (1133 mm) |
| Reach, 45° dump angle, 7-ft. (2.13 m) height | 64" (1625 mm) | 66.6" (1692 mm) | 67" (1702 mm) | 69.5" (1765 mm) | 67.7" (1720 mm) |
| K. Overall height, bucket @ full height | 210.1" (5337 mm) | 210.1" (5337 mm) | 216.4" (5497 mm) | 216.4" (5497 mm) | 217.7" (5030 mm) |
| L. Hinge pin height, fully raised | 162.3" (4122 mm) | 162.3" (4122 mm) | 162.3" (4122 mm) | 162.3" (4122 mm) | 162.3" (4122 mm) |
| M. Overall length, bucket on ground | 303.1" (7699 mm) | 308.4" (7833 mm) | 309.4" (7859 mm) | 314.7" (7993 mm) | 310.8" (7894 mm) |
| N. Clearance circle, bucket @ carry | 515.6" (13,096 mm) | 522.9" (13,281 mm) | 519.1" (13,185 mm) | 526.5" (13,373 mm) | 519.9" (13,205 mm) |
| Hydraulic Lifting Capacity @ Full Height | 20,615 lb. (9351 kg) | 20,495 lb. (9296 kg) | 20,275 lb. (9197 kg) | 20,155 lb. (9142 kg) | 20,204 lb. (9164 kg) |
| Hydraulic Lifting Capacity @ Max. Reach | 28,014 lb. (12,707 kg) | 27,893 lb. (2,652 kg) | 27,658 lb. (12,545 kg) | 27,536 lb. (12,490 kg) | 27,571 lb. (12,508 kg) |
| Hydraulic Lifting Capacity @ Ground Level | 37,388 lb. (16,959 kg) | 37,257 lb. (16,899 kg) | 36,864 lb. (16,721 kg) | 36,731 lb. (16,661 kg) | 36,608 lb. (16,605 kg) |
| Max. dump angle @ full height | 55° | 55° | 55° | 55° | 55° |
| Max. Rollback @ full height | 59° | 59° | 59° | 59° | 59° |
| Max. Rollback @ max. reach | 54° | 54° | 54° | 54° | 54° |
| O. Max. Rollback @ carry | 44° | 44° | 44° | 44° | 44° |
| Max. Rollback @ ground | 41° | 41° | 41° | 41° | 41° |
| P. Digging depth | 2.9" (74 mm) | 2.9" (74 mm) | 2.9" (74 mm) | 2.9" (74 mm) | 2.9" (74 mm) |
| Operating weight | 37,844 lb. (17,166 kg) | 37,962 lb. (17,219 kg) | 38,178 lb. (17,317 kg) | 38,296 lb. (17371 kg) | 38,245 lb. (17,348 kg) |

ADJUSTMENTS TO OPERATING WEIGHTS AND TIPPING LOADS WITH PIN-ON BUCKETS

| For loader with: | Add (+) or deduct (-) lb. (kg) as indicated | | |
|------------------|---|------------------------|-----------------------------|
| | Operating Weight | Tipping Load, Straight | Tipping Load, 40° Full Turn |
| 23.5x25 L2 | -1116 lb. (-45 kg) | -895 lb. (-35 kg) | -790 lb. (-31 kg) |
| 23.5x25 L3 | -480 lb. (+103 kg) | -385 lb. (+78 kg) | -340 lb. (+69 kg) |
| 23.5R25 L5 | -1188 lb. (+172 kg) | 952 lb. (+131 kg) | 841 lb. (+115 kg) |

Note: Above data is based on loader equipped with 23.5R25 XHATL Michelin radial tires, ROPS cab with heater & A/C, auxiliary steering, front and rear fenders, full fuel, 175 lb. operator. Specifications per ISO 13497 unless otherwise noted.

W190B Specifications

ENGINE

| | | |
|---------------------------------------|---|--|
| Make and Model | New Holland 667TA/E3, Tier III certified | |
| Cylinders | 6 | |
| Displacement..... | 411 cu. in. (6.8 L) | |
| Bore x Stroke | 4.09" (104 mm) x 5.20" (132 mm) | |
| Power | | |
| Standard: | | |
| Rated Gross (per SAE J1995) | 209 hp (156 kW) @ 2000 rpm | |
| Peak Gross (per SAE J1995)..... | 210 hp (157 kW) @ 1800 rpm | |
| Rated Net (per SAE J1349) | 195 hp (145 kW) @ 2000 rpm | |
| Peak Net (per SAE J1349)..... | 198 hp (148 kW) @ 1800 rpm | |
| Boosted Power: | | |
| Rated/Peak Gross (per SAE J1995)..... | 227 hp (169 kW) @ 2000 rpm | |
| Rated/Peak Net (per SAE J1349)..... | 213 hp (159 kW) @ 2000 rpm | |
| Economy: | | |
| Rated Gross (per SAE J1995) | 177 hp (132 kW) @ 2000 rpm | |
| Peak Gross (per SAE J1995)..... | 190 hp (142 kW) @ 1500 rpm | |
| Rated Net (per SAE J1349) | 163 hp (122 kW) @ 2000 rpm | |
| Peak Net (per SAE J1349)..... | 181 hp (135 kW) @ 1500 rpm | |
| Torque, Max. | | |
| Standard: | | |
| Gross (per SAE J1995) | 724 lb-ft (982 N-m) @ 1400 rpm | |
| Net (per SAE J1349)..... | 701 lb-ft (950 N-m) @ 1300 rpm | |
| Boosted: | | |
| Gross (per SAE J1995) | 739 lb-ft (1002 N-m) @ 1400 rpm | |
| Net (per SAE J1349)..... | 712 lb-ft (966 N-m) @ 1400 rpm | |
| Economy: | | |
| Gross (per SAE J1995) | 712 lb-ft (966 N-m) @ 1200 rpm | |
| Net (per SAE J1349)..... | 693 lb-ft (940 N-m) @ 1200 rpm | |
| Governor | Electronic Control | |
| Torque Rise | 33% | |
| Fuel Injection..... | Direct injection, diesel | |
| Fuel Filter | Full-flow spin-on cartridge | |
| Lube System | Full-flow spin-on filter cartridge with integral cooler | |
| Aspiration | Turbocharged, air to air cooled | |
| Air Cleaner..... | Dry type elements with warning restriction indicator | |
| Advanced Cooling System | Independent mounted coolers, mid-mounted | |
| Fan | Hydraulically driven suction fan, 28" (711mm) diameter, purge feature (optional) | |
| Radiator | 5 rows, 9 fins/in. | |

TRANSMISSION

| | | |
|-------------------------------------|--|----------------------|
| Type Countershaft, power shift | | |
| Torque Converter | Single-phase, single-stage, 2.28:1 stall ratio | |
| Shift Control System..... | Electronic control module, torque sensing, manual or automatic shifting | |
| Control location | Steering column-mounted twist-grip shift lever, auxiliary controls on loader joystick | |
| Travel speeds with 23.5x25 L3 tires | | |
| | Forward | Reverse |
| Gear 1 | 4.3 mph (6.9 km/h) | 4.5 mph (7.2 km/h) |
| Gear 2 | 8.4 mph (13.5 km/h) | 8.8 mph (14.2 km/h) |
| Gear 3 | 14.9 mph (23.9 km/h) | 15.6 mph (25.0 km/h) |
| Gear 4 | 24.0 mph (38.6 km/h) | |

AXLES/BRAKES

| | |
|----------------------------|--|
| Differentials | Limited slip, front and rear |
| Final drives | Heavy-duty out board planetary reduction |
| Rear axle oscillation..... | 24 degrees total, 15.2" (386 mm) maximum vertical travel at wheel |
| Brakes | |
| Service brakes | Outboard, hydraulically actuated, maintenance-free, multiple wet disc with accumulator, acting on all four wheels. Complies with SAE J1473 and ISO 3450. |
| Parking brake..... | Spring applied, hydraulically released, acting on transmission output shaft |

SERVICE CAPACITIES

| | |
|--------------------------------|--------------------|
| Fuel tank | 76 gal. (287.7 L) |
| Engine oil | 20 qt. (18.9 L) |
| Engine oil with filter | 23.7 qt. (22.4 L) |
| Transmission with filter | 10.5 gal. (39.7 L) |
| Cooling system | 10.8 gal. (40.9 L) |
| Hydraulic reservoir | 23.8 gal. (90 L) |
| Hydraulic system | 46 gal. (174.1 L) |
| Front axles (total), each..... | 9.75 qt. (9.2 L) |
| Rear axles (total), each | 6.25 qt. (5.9 L) |

ELECTRICAL

| | |
|------------------------------|---|
| Electrical system..... | 24 volt, negative ground with 70-amp alternator |
| Batteries (two 12 volt)..... | 700 CCA; 170 Ah |

HYDRAULIC SYSTEMS/STEERING

| | |
|--------------------------------|---|
| Pump (steering/implement)..... | Variable-displacement, piston pump |
| Maximum flow | 45.2 gpm (171 L/m) @ 2000 rpm and 3600 psi (24,822 kPa) |
| Pressure..... | Loader relief: 3625 psi (25,000 kPa); Steering relief: 3500 psi (24,132 kPa) |
| Valves | Closed-center, load sensing; positive low pressure regeneration for bucket dump |
| Loader controls..... | Standard two-function valve; single- or dual-lever controls, optional third-function valve; with auxiliary lever, pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout |
| Hydraulic cycle times | |
| Raise-loaded..... | 5.6 sec. |
| Dump-loaded..... | 1.1 sec. |
| Lower-empty, power down..... | 2.7 sec. |
| Lower-empty, float down..... | 2.1 sec. |
| Steering | |
| Type | Hydraulic orbital, load sensing, 40° center pivot articulation |
| Filtration | 10-micron, full flow cartridge filter on return line |

HYDRAULIC CYLINDERS

| | |
|---|--|
| Lift Cylinders, bore x stroke x rod | 6" (152 mm) x 31.75" (806 mm) x 3.5" (89 mm) |
| Dump Cylinder, bore x stroke x rod | 6.5" (165 mm) x 23.61" (560 mm) x 3.5" (89 mm) |
| Steering Cylinders, bore x stroke x rod | 3.25" (83 mm) x 18.97" (482 mm) x 1.75" (44 mm) |

W190B Base & Optional Equipment

BASE EQUIPMENT

ENGINE

New Holland 667TA/E3 6-cylinder turbo diesel
EPA off-road certified, Tier III
Displacement: 411 cu in (6.8 L)
Power

Standard:

Rated Gross 209 hp (156 kW) @ 2000 rpm
Peak Gross 210 hp (157 kW) @ 1800 rpm
Rated Net 195 hp (145 kW) @ 2000 rpm
Peak Net 198 hp (148 kW) @ 1800 rpm

Boosted Power:

Rated/Peak Gross 227 hp (169 kW) @ 2000 rpm
Rated/Peak Net 213 hp (159 kW) @ 2000 rpm

Economy:

Rated Gross 177 hp (132 kW) @ 2000 rpm
Peak Gross 190 hp (142 kW) @ 1500 rpm
Rated Net 163 hp (122 kW) @ 2000 rpm
Peak Net 181 hp (135 kW) @ 1500 rpm

Torque, Max.

Standard:

Gross 724 lb-ft (982 N-m) @ 1400 rpm
Net 701 lb-ft (950 N-m) @ 1300 rpm

Boosted:

Gross 739 lb-ft (1002 N-m) @ 1400 rpm
Net 712 lb-ft (966 N-m) @ 1200 rpm

Economy:

Gross 712 lb-ft (966 N-m) @ 1200 rpm
Net 693 lb-ft (940 N-m) @ 1200 rpm

Air-to-Air after cooler

Anti-freeze solution -34°F (-37°C)

Fuel Tank: 76 gal. U.S. (288 L)

Air cleaner - 2 stage w/radial seal elements

Hydraulically driven suction fan w/guard

Grid heater for cold weather starting

Electronic fuel injector

Advanced Cooling System (ACS)

Selectable power mode

AXLES & TIRES

Limited slip differentials - front and rear

Maintenance free driveshafts and axle dipsticks

23.5X25 L2 Bias Ply Tires,
3 Pc Rims

TRANSMISSION

Speeds: 4F-3R

Computer controlled, full-power, proportional shifting

Single lever electronic shift control
FNR shuttle shift

Programmable gear selection
Selectable fully-automatic and manual modes

Electronic transmission disconnect
On-board diagnostics with fault code storage and retrieval

Single, vertically mounted, spin-on oil filter

Oil cooler

HYDRAULICS

Pilot-operated joystick control

2-spool valve

Pressure compensated, load sensing hydraulics

Two vertically mounted, spin-on oil filters

Hydraulic diagnostic quick couplers

O-ring face seal hydraulic fittings

Full-flow oil cooler

Cushioned steering cylinders

Standard hydraulic steering system

LOADER SYSTEM

Automatic return-to-dig, automatic height control, and automatic return-to-travel

Position indicator on bucket

Single lever / two spool loader control

Z-bar loader linkage

Single piece, flame cut, loader arms

Ground level lubrication points

BRAKES

4-Wheel, outboard mounted, wet disc hydraulic brakes

Parking brake, spring applied hydraulic release

Separate front and rear brake systems

ELECTRICAL SYSTEM

24-volt system

Two Heavy Duty 12V 700 cold cranking amp (CCA) batteries

Halogen lights:

2 front and 2 rear worklights

2 front driving (hi/lo beam)

Stop/tail lights and backup lights

Front and rear turn signals and flashers

Alternator: 70 amp

Electrical disconnect switch

Horn

Backup alarm

BASE EQUIPMENT

OPERATOR STATION

ROPS cab with heater and A/C

Inside rearview mirror

Cloth mechanical suspension seat, w/ 51 mm (2 in) seatbelt

Storage tray, cup holder

Tilt steering wheel w/integral steering knob

Fully adjustable wrist rest

Cigar/cigarette lighter-24 volt

Wiring & speaker covers for radio installation

Multi-Function Display Panel

INSTRUMENTS

Individual gauges for:

1. Engine coolant temp.
2. Fuel level
3. Hour meter
4. Speedometer
5. Trans. Oil temp.

Indicator Lights for:

1. Air filter restriction

2. Battery charge
3. Brake oil pressure
4. Emergency Steering (if equipped)
5. Engine coolant temp.
6. Engine oil pressure
7. Fuel level
8. General alarm
9. High beam
10. Parking break
11. Trans. Oil temp.
12. Trans. speed
13. Turn signals

OTHER EQUIPMENT

Articulation and loader lift arm

locking bars

Drawbar hitch

Front and rear fenders, left side steps

Remote drain points

Front and rear lift and tie down points

OPTIONAL EQUIPMENT

OPERATOR STATION

Mechanical suspension seat, cloth covered with 3" belt

Air suspension seat, cloth covered with 2" belt

Air suspension seat, cloth covered with 3" belt

AM/FM cassette stereo radio, 12 volt includes 24V-12V power converter

Fire extinguisher

Amber rotating beacon

ENGINE

Cold weather package (Includes block heater, low temp hydraulic, and oil, heavy duty batteries, grid heater, oil cooler bypass)

Cooling system w/hydraulic cooler & reversing variable speed fan

HYDRAULICS

Valve, 3 spool 3 lever control

Valve, 3 spool joystick + 1 lever control

*Hydraulic pin-puller circuit Z-bar, for use with Quick Couplers

Load Travel Stabilizer (LTS)

Standard steering w/secondary electric steering

AXLES & TIRES

23.5 R25 L2 radial, 3 piece rim

23.5 X 25 L3 bias ply, 3 piece rim

23.5 R25 L3 radial, 3 piece rim

Axle stops for 20.5 tires w/chains

BUCKETS AND ATTACHMENTS

Pin-on buckets (see pages 16-17)
General purpose bucket, 3.5 yd³ w/bolt-on edge

General purpose bucket, 3.5 yd³ w/teeth & segments

Medium material bucket, 4.25 yd³ w/bolt-on edge

Medium material bucket, 4.25 yd³ w/teeth & segments

Light material bucket, 4.5 yd³ w/bolt-on cutting edge

ACS Quick Coupler, Pro Series 2000 ACS Quick Coupler, includes 3.5 yd³ bucket with cutting edge

ACS Quick Coupler, includes 3.5 yd³ bucket with teeth

JRB Quick Coupler

JRB Quick Coupler, pin-puller circuit & general purpose bucket, 3.5 yd³ w/bolt-on edge

JRB Quick Coupler, pin-puller circuit & general purpose bucket,

3.5 yd³ w/teeth

Heavy duty counterweight (adds 1,225 lbs.)

OTHER EQUIPMENT

Standard fenders with RH and LH steps

Rear frame articulation joint side covers (transmission guards)

Axle stops for use with 20.5 tires with chains

Tool box, bolts to loader frame, right side

Transmission bottom guard (belly pan)

Pre-cleaner, full view

Special paint, other than standard New Holland yellow

(*Note: included with codes LJF, LJG and LJH)

WHEEL LOADERS

W170B

Horsepower
Net 183 hp (136 kW)

Operating weight
30,707 lbs (13,928 kg) with
3.0 yd³ pin-on excavating bucket
with bolt-on edge

30,562 lbs (13,863 kg) with 48"
utility forks

Bucket capacity
3.0 to 3.5 yd³ (2.3 to 2.7 m³)

W190B

Horsepower
Net 213 hp (159 kW)

Operating weight
38,178 lbs (17,317 kg) with
4.25 yd³ pin-on general purpose
bucket with bolt-on edge

Bucket capacity
4.25 yd³ (3.9 m³)



New Holland Construction Equipment Dealers are committed to your success

Your New Holland construction equipment dealer can match you with the best equipment for your operation. Your productivity is their goal and your profitability is their priority.

Providing dependable, efficient construction equipment is only the beginning. Your dealer can also make it easier to put New Holland construction equipment to work on your job site by tailoring low-rate financing, lease programs and insurance plans to meet your needs.

After the sale your dealer provides peace of mind with expert parts and service support. Factory-trained technicians will service your equipment promptly and maintain your investment.

Visit your New Holland construction equipment dealer and see for yourself why New Holland is a



New Holland construction equipment is backed with a **1-Year Unlimited-Hour Standard Warranty***

Visit our website at www.newhollandconstruction.com Or, call toll-free: 1-866-726-3396

 **NEW HOLLAND**

*Mid-size and full-size excavators feature 1-year/2,000 hour standard warranties.

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.

© 2006 CNH America LLC
New Holland is a trademark of CNH America LLC.



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 #NHC1060623 | 110615 • GP • PRINTED IN U.S.A.

www.newhollandconstruction.com