



**NEW HOLLAND**  
**CONSTRUCTION**

# **WHEEL LOADERS**

**LW230.B**

Specifications

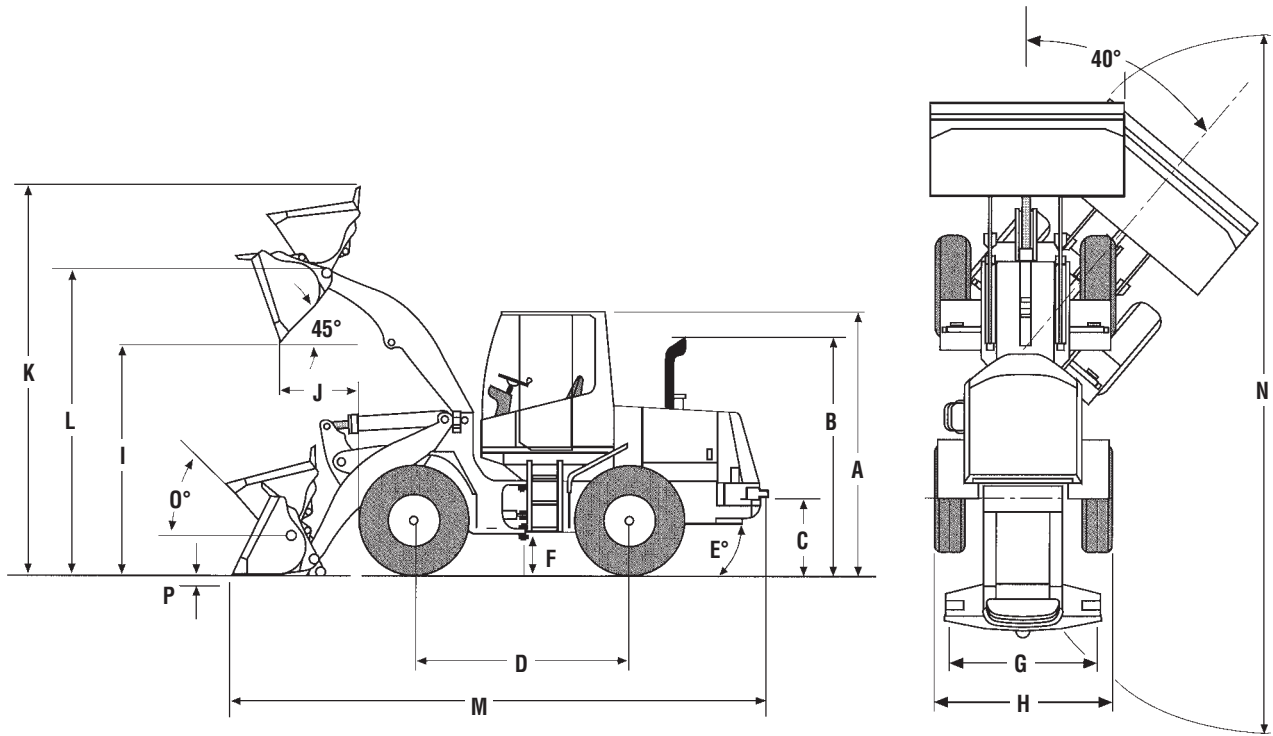


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*Courtesy of Machine.Market*

# LW230.B Specifications

## LW230.B DIMENSIONS



<b>A.</b> Height to top of cab.....	140.5" (3569 mm)	Turning radius-outside of tires .....	253.7" (6445 mm)
<b>B.</b> Height to top of exhaust.....	133.1" (3381 mm)	<b>F.</b> Ground clearance .....	19.3" (490 mm)
<b>C.</b> Height to drawbar.....	42.6" (1082 mm)	<b>G.</b> Tread width.....	87.4" (2220 mm)
<b>D.</b> Wheelbase.....	129.9" (3300 mm)	<b>H.</b> Width over tires.....	114.3" (2905 mm)
<b>E.</b> Rear departure angle .....	26°		

## ENGINE

Make and Model .....Cummins 6CTAA 8.3 EPA Tier 2 certified  
 Cylinders .....6  
 Displacement.....506.5 cu. in. (8.3 L)  
 Bore x Stroke.....4.49" (114 mm) x 5.31" (135 mm)  
 Power – Rated / Peak .....

Gross (per SAE J1995) .....	240 hp (179 kW) @ 2200 rpm / 257 hp (192 kW) @2000 rpm
Net (per SAE J1349).....	225 hp (168 kW) @ 2200 rpm / 242 hp (181 kW) @ 2000 rpm

Torque - Peak.....

Gross (per SAE J1995).....	845 lb-ft (1146 N-m) @ 1,400 rpm
Net (per SAE J1349) .....	820 lb-ft (1120 N-m) @ 1,400 rpm

Torque Rise .....25%  
 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  
 Cooling System.....Engine, torque converter, hydraulic, after-cooler sections  
 Fan .....Hydraulically driven suction fan, 28" (710mm) diameter, purge feature  
 Radiator .....5.5 fins/in.

## TRANSMISSION

Type .....Countershaft, power shift  
 Torque Converter.....Single-phase, single-stage, 3.0:1 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 26.5R25 XHA

	<b>Forward</b>	<b>Reverse</b>
Gear 1 .....	4.9 mph (7.8 km/h)	5.2 mph (8.4 km/h)
Gear 2 .....	8.8 mph (14.2 km/h)	9.5 mph (15.2 km/h)
Gear 3 .....	14 mph (22.0 km/h)	15 mph (24.15 km/h)
Gear 4 .....	23.6 mph (38.1 km/h)	24.6 mph (39.5 km/h)

## AXLES/BRAKES

Differentials  
 Standard: Torque proportioning, front rear  
 Optional: Limited slip, front and rear  
 Final drives.....Heavy-duty in-board planetary reduction  
 Rear axle oscillation.....26 degrees total, 9.7" (247 mm) maximum vertical travel at wheel  
 Brakes  
 Service brakes ..In-board, 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, integrated with the transmission

# LW230.B Specifications

PERFORMANCE DATA – PIN-ON BUCKETS			
KEY	Bucket Type/Size	General Purpose w/Bolt-on Edge	Stockpiling w/Bolt-on Edge
	Capacity, heaped (SAE)	4.8 yd <sup>3</sup> (3.7 m <sup>3</sup> )	5.2 yd <sup>3</sup> (4.0 m <sup>3</sup> )
	Capacity, struck (SAE)	4.2 yd <sup>3</sup> (3.2 m <sup>3</sup> )	4.6 yd <sup>3</sup> (3.5 m <sup>3</sup> )
	Bucket width	118.5" (3010 mm)	118.5" (3010 mm)
	Bucket Weight	3858 lb (1750 kg)	4079 lb (1850 kg)
	Breakout force	40,240 lb (18,253 kg)	37,992 lb (17232 kg)
	Tipping load, straight (ISO)	38,294 lb (17,370 kg)	37,919 lb (17,200 kg)
	Tipping load @ 40° full turn (ISO)	33,510 lb (15,200 kg)	33,000 lb (14,970 kg)
<b>I</b>	Dump clearance, 45° dump angle-full height	116.1" (2950 mm)	113.4" (2880 mm)
<b>J</b>	Reach, 45° dump angle, full height	43.5" (1105 mm)	46.3" (1176 mm)
	Reach, 45° dump angle, 7-ft. (2.13 m) height	68.1" (1729 mm)	69.6" (1767 mm)
	Max. Reach, bucket and loader arms level	48.1" (1222 mm)	48.1" (1222 mm)
<b>K</b>	Overall height, bucket @ full height	217.7" (5530 mm)	220.5" (5600 mm)
<b>L</b>	Hinge pin height, fully raised	164.6" (4180 mm)	164.6" (4180 mm)
<b>M</b>	Overall length, bucket on ground	325.7" (8272 mm)	329.6" (8372 mm)
<b>N</b>	Clearance circle, bucket @ carry	263.8" (6700 mm)	263.8" (6700 mm)
	Hydraulic Lifting Capacity @ Full Height	22,020 lb (9988 kg)	21,921 lb (9943 kg)
	Hydraulic Lifting Capacity @ Max. Reach	30,686 lb (13,918 kg)	30,349 lb (13,766 kg)
	Hydraulic Lifting Capacity @ Ground Level	47,179 lb (21,400 kg)	46,681 lb (21,165 kg)
	Max. dump angle @ full height	49°	49°
	Max. Rollback @ full height	60°	60°
	Max. Rollback @ max. reach	60°	60°
<b>O</b>	Max. Rollback @ carry	41°	41°
	Max. Rollback @ ground	40°	40°
<b>P</b>	Digging depth	3.7" (93 mm)	3.7" (93 mm)
	Operating weight	46,936 lb (21,290 kg)	47,156 lb (21,390 kg)

## HYDRAULIC SYSTEM/STEERING

Pumps (implement, steering/brakes).....	Dual gear pumps
Maximum flow .....	359 L/m up to 17,500 kPa; 220 L/m up to 21,000 kPa
Pressure.....	Loader relief: 21,000 kPa; steering relief: 21,000 kPa
Valves.....	Open-center, load sensing, with anticavitation and relief valves, 3 implement spools standard
Loader controls .....	Standard two-function; single joystick or dual fingertip lever control options
	Optional third-function with auxiliary lever
	Pilot operated controls with electromagnetic detents for float, raise, and bucket rollback; control lockout
Hydraulic cycle times	
Raise-loaded .....	5.9 sec.
Dump- loaded .....	1.5 sec.
Lower-empty, power down.....	4.0 sec.
Lower-empty, float down.....	3.5 sec.
Steering	
Type.....	Hydraulic load sensing with priority valve, Mechanically actuated, 40° center pivot articulation
Emergency Steering .....	Bi-directional gear pump, ground driven

## ELECTRICAL

Electrical system .....	24 volt, negative ground with 50-amp alternator
Batteries (two 24 volt) .....	650 CCA; 160 Ah

## HYDRAULIC CYLINDERS

Lift Cylinders, bore x stroke x rod.....	6.3" (160 mm) x 34.6" (880 mm) x 3.5" (90 mm)
Dump Cylinder, bore x stroke x rod.....	7.5" (190 mm) x 21.7" (550 mm) x 3.7" (95 mm)
Steering Cylinders, bore x stroke x rod .....	3.1" (80 mm) x 21.3" (542 mm) x 1.8" (45 mm)

## SERVICE CAPACITIES

Fuel tank.....	85.9 gal. (325 L)
Engine oil.....	18 qt. (17 L)
Engine oil with filter .....	22.2 qt. (21 L)
Transmission with filter .....	10.5 gal. (40 L)
Cooling system.....	11.4 gal. (43.2 L)
Hydraulic system.....	42.26 gal. (160 L)
Front Axle.....	38 qt. (36L)
Rear Axle.....	42.2 qt. (40L)

# LW230.B Standards & Options

## STANDARD EQUIPMENT

### ENGINE:

Cummins 6CTAA8.3 6-cylinder turbo diesel  
EPA certified, Tier 2  
Displacement: 8.3 L (506 cu in)  
Horsepower (kilowatts):  
RATED:  
Gross 240 hp (179 kW) @ 2200 rpm  
Net 224 hp (167 kW) @ 2000 rpm  
PEAK:  
Gross 257 hp (192 kW) @ 2000 rpm  
Net 242 hp (181 kW) @ 2000 rpm  
Air cleaner – dry type  
Automatic dust ejector  
Anti-freeze solution -31°F (-35°C)  
Fuel Tank: 79.3 gal. U.S. (300 L)

### DRIVE TRAIN:

AXLES & TIRES:  
All-wheel drive with wet disc brakes  
Automatic torque proportioning differentials  
Articulated frame  
Fixed front axle  
Oscillating rear axle  
26.5X25 XHA Michelin tires,  
(3-piece rims)

### TRANSMISSION:

Speeds: 4F-4R  
Powershift, countershaft design  
Computer controlled, full-power, proportional shifting  
Single lever electronic shift control with de-clutch  
Automatic control with hold and kick-down  
Forward/reverse control switch

### HYDRAULICS:

Open center hydraulic system  
Pilot control (2 levers, 2 spools)  
Auto lift kick-out/bucket positioner  
Load-sensing steering system  
Load-sensing implement system  
Load Travel Stabilizer (LTS) ride control system  
Emergency steering

### 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:

Wet disc brakes  
4-wheel, inboard 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 650 cold cranking amp (CCA) batteries  
Halogen lights:  
Two front headlights  
Two front worklights  
Two rear flood lights  
Two stop/two tail lights  
Front and rear turn signals and flashers  
Alternator: 70 amp  
Electrical disconnect switch  
Horn  
Backup alarm  
Auxiliary 12-volt socket in cab

### OPERATOR STATION

ROPS/FOPS cab, isolation mounted  
Heater/defroster ventilation system  
Air conditioning  
Sunscreen, front and rear  
Deluxe air suspension seat, w/2 in (51 mm) seat belt  
Tilt steering wheel w/integral steering knob  
Tinted safety glass  
Windshield wiper/washer, front and rear  
Wiring & speaker covers for radio installation  
Cigar/cigarette lighter-24 volt  
Inside rearview mirror  
Storage tray, cup holder

## STANDARD EQUIPMENT (...cont.)

### 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  
5. Engine coolant temp.  
6. Engine oil pressure  
7. Fuel level

8. General alarm  
9. Headlamp indicator  
10. Parking brake application  
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  
Front and rear lift and tie down points  
Drawbar, fixed

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.

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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.

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