

# SKID STEERS/COMPACT TRACK LOADERS



**L213**

**L216**

**L218**

**L220**

**L221**

**L228**

**L230**

**C227**

**C232**

**C238**

- Outstanding breakout forces and dump height
- Patented Super Boom® technology offers maximum reach at full height
- Comfortable sealed and pressurized cabs
- Superior serviceability for daily checks and routine maintenance



# WORK FASTER. WORK SMARTER.

No matter what your line of work—landscaping, farming or construction—you'll complete your jobs more effectively with New Holland 200 Series skid steers and compact track loaders.

## ROCK-SOLID STABILITY

New Holland introduced the long wheelbase concept to skid steers loaders, and now goes longer with the 200 Series. When combined with a low center of gravity and the correct front-to-rear weight distribution, the result is a smooth and stable ride.



## EXCELLENT DUMP HEIGHT AND REACH

The patented New Holland Super Boom® vertical lift linkage offers more height and reach which allows operators to load material into the center of the of high-sided truck boxes or hoppers.

## SUPERIOR OPERATOR COMFORT

New Holland knows that comfort is not simply a luxury: It's vital to your business. Operators who are comfortable can be more productive with less fatigue. We take the extra steps to make our operators as comfortable as possible.

- The wide comfortable cab provides more head room and shoulder room for any size operator. The entry foot well is flat for easy entry and exit.
- The optional heated, cloth upholstered, air-ride seat gives maximum support and eliminates fatigue.
- Our ergonomically designed joysticks put all controls right at your fingertips. We now offer optional joystick controls that are switchable - both ISO & H-Pattern.
- The air vents are strategically located to cover operator extremities as well as defrost the door and windows.
- There's more than twice the visibility as before in the critical zones based on visibility testing\*.



## EASY SERVICING

And when it comes to service, New Holland gets it: service downtime is lost revenue and maintenance is more likely to be done when it is easy to get done.

- By simply opening the engine compartment rear door, you can easily identify service points like the engine oil fill and dipstick, the air filter, oil cooler, radiator, coolant over flow, fuel filter, and oil filter. Battery maintenance is simple, too.
- And, if you need more service access, the flip-up cab opens the machine for easy access.



	MODEL	Gross Horsepower hp (kW)	Rated Operating Capacity @ 50% Tipping Weight lbs (kg)	Operating Weight lbs (kg)	Height to Hinge Pin in (mm)	Dump Reach Maximum Height in (mm)
Radial Lift	L213	49 (36)	1,300 (590)	5,070 (2300)	112 (2845)	18.5 (469)
	L216	60 (45)	1,600 (725)	5,510 (2505)	112 (2845)	18.5 (469)
	L221	74 (55)	2,100 (905)	6,970 (3160)	123 (3124)	20.3 (517)
	C227	74 (55)	2,700 (1225)	8,270 (3750)	123 (3124)	22.3 (568)
Super Boom® Vertical Lift	L218	60 (45)	1,800 (818)	5,930 (2690)	120 (3048)	30.8 (783)
	L220	67 (50)	2,000 (905)	6,470 (2930)	121 (3073)	29.8 (758)
	L228	74 (55)	2,800 (1270)	8,245 (3740)	129.4 (3287)	32.3 (821)
	L230	90 (67)	3,000 (1360)	8,300 (3765)	131 (3327)	30.7 (781)
	C232	74 (55)	3,200 (1451)	9,630 (4370)	131.1 (3330)	34.4 (875)
	C238	90 (67)	3,800 (1723)	10,100 (4581)	131.1 (3330)	34.4 (875)

\*ISO 5006: 2006 specifies a static test method for determining and evaluating the operator's visibility on a rectangular 1-meter boundary close around the machine and on a 12-meter visibility test circle.

# SEE HOW MUCH BETTER A LOADER CAN BE

Visibility is very important to operators and New Holland understands. Excellent visibility is delivered with the 200 Series—to the cutting edge, to the bucket at full height, to the sides, and to the rear. You'll complete jobs quickly and efficiently with these loaders.

## EXCELLENT VISIBILITY

- The threshold for the front door on the 200 Series has been lowered, allowing for even better sightlines to the loader bucket and to the trench.
- The see-through area on the cab roof provides a clear view to the bucket at full height.
- The side screens on New Holland skid steer and compact track loaders provide better visibility on both sides of the machine.



- Rear visibility is among the best in the industry by providing a large rear window, low engine hood and no rear frame towers.



## COMFORTABLE, CLEAN, AND QUIET ENVIRONMENT

- A huge glass door opens wide for easy entry and exit. When closed, it provides superior visibility to all corners and creates an open, uncluttered sense of space.
- A heater/defroster kit and optional air conditioning allows you to control the climate in any weather.
- Full-covering, noise-absorbing trim leads to quiet sound levels in enclosed cabs.
- Fully sealed and pressurized cab minimizes noise, dust and exhaust infiltration.
- Front lights at the side of the cab expand your forward view, especially to the upper corners, making it easier to position loads overhead and maneuver in low-clearance areas.
- Ample leg room and foot room add to operator comfort.
- A demolition door is available in lieu of a glass door for rugged working conditions.

## OTHER STANDARD FEATURES RELATED TO VISIBILITY:

- Dome light
- Top window
- Alarm package (backup & horn)
- Halogen work lights – two in front and two in back – for longer service life and excellent jobsite visibility
- Pre-wiring for rotating beacon, 4 point strobe or rear side lights
- Taillights
- Warning lights with alarm (engine coolant temperature, engine oil pressure, air cleaner restriction, hydraulic filter restriction, hydraulic oil temperature)
- Indicator lights (engine preheat, parking brake, seat belt reminder)





The full-view front windshield provides an outstanding view while the spacious cab provides a comfortable environment for the operator.

# COMFORT IS BUILT IN

Comfortable operators can work longer hours with less fatigue. The New Holland 200 Series breaks new ground with industry-leading dimensions, options, and ease of operation.

- Lower threshold
- Flat floor
- One of the widest skid steer cabs in the industry

## CONTROL LEVER OPTIONS

Mechanical controls are standard. Electro-hydraulic switchable (ISO-H pattern) controls are optional on all models. 200 Series skid steers and compact track loaders built with EH (Electro-Hydraulic) controls feature multiple speed and sensitivity settings on three different circuits: travel, boom and bucket. This allows the customer to personalize the controls depending on their preferences.

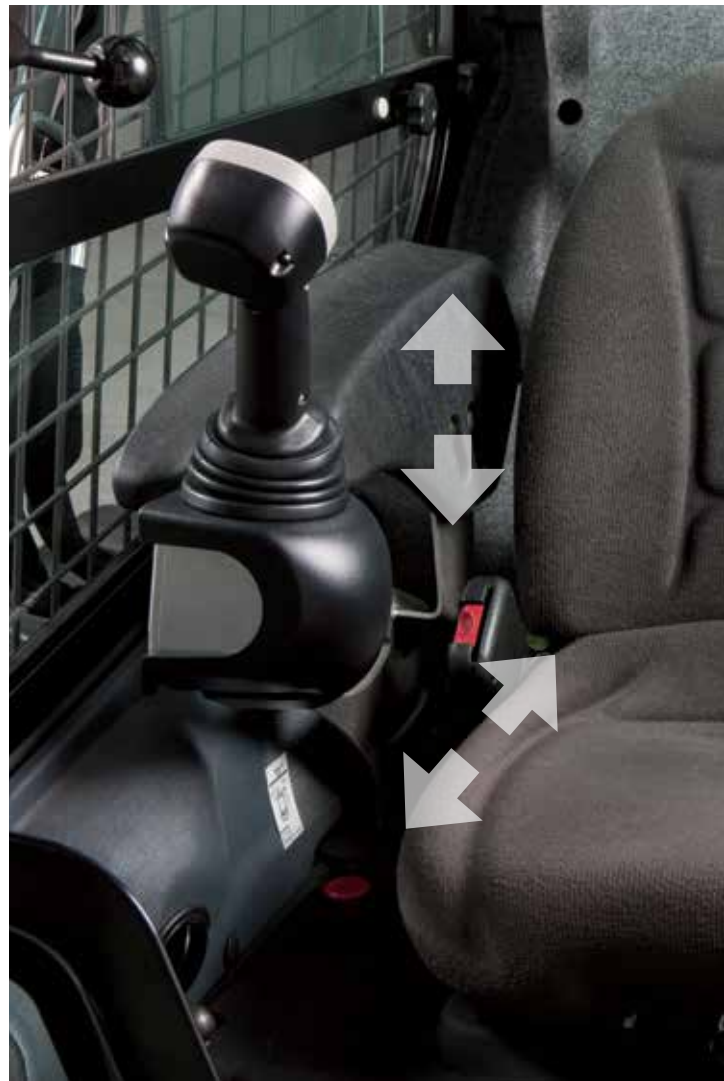
Arm rests can be adjusted up or down and EH control mounts have both vertical and horizontal adjustment to fit any operator.



Switches are easily accessible on the control handles to operate such items as the horn, left- and right-side proportional auxiliary, glide ride, turn signals, two-speed, float, or attachment multi-function control.



Controls available to match your preference.





The step floor is flat for easy entry/exit and more foot and leg room.



## CAB COMFORT

It's easy to enter and exit the 200 Series loaders because the threshold is low, the step area by the foot pedals is flat, and grab handles are positioned for convenient use when getting in and out.

All 200 Series loaders come standard with a retractable seatbelt (a shoulder belt is standard with enclosed cabs). All models have optional suspension seats or an air-ride cloth suspension seat for the ultimate in comfort.

All the switches and gauges are right in front of you and easy to access from the comfort of the operator's seat.

Even more options to customize the operator's environment and increase productivity:

- Enclosed cab with heat and air conditioning
- Hydraulic coupler
- Block heater
- Turn signals
- Self leveling
- Glide Ride
- High-flow hydraulics
- Enhanced high-flow hydraulics
- Radio with speakers
- Easy-to-remove and clean side windows (no tools required)

# HARD WORK AND DEMANDING CONDITIONS? BRING IT

New Holland 200 Series skid steers and compact track loaders are reliable workhorses that stand up to any challenge you face.

## LOWER EMISSIONS, ADDED FUEL SAVINGS

New Holland's Tier 4 Final engines not only meet extremely strict emissions requirements that curb airborne nitrogen oxide (NOx) and particulate matter (PM), they also deliver powerful performance, use less fuel and are easy to maintain to decrease your operating costs. These new engines provide the same power and torque as previous engines, without increasing RPM, providing fuel savings of at least 4%. In addition, when you don't use the full power of the machine, the variable flow hydraulic pump only uses the power required leading to significant extra-fuel savings and as well as reduced operating noise.



## FPT™ F5 ENGINES (L221, L228, L230, C227, C232, C238)

### HIGH PERFORMANCE IN ALL CONDITIONS

These engines stand out for their low-cost operation, extremely easy maintenance and excellent performance in the most demanding applications. The L230 & C238 use DOC with SCR using DEF. All other machines use a PM Catalyst with DOC that does not require a DPF. This allows for easier maintenance to the machine.

- These turbocharged engines feature externally cooled EGR (exhaust gas recirculation) for efficient air handling and high engine power density with the shortest load response time.
- A state-of-the-art direct fuel injection system uses a simple, proven, mechanical, rotary pump that provides accurate fuel delivery.
- Operators will notice a minimum of noise and vibration due to the design of the engine, including camshaft in crankcase, suspended oil pan, and balancer counterweights incorporated in crankshaft webs.
- Highly integrated engine components mean superior leakage prevention. Examples include the integrated Closed Crankcase Ventilation (CCV) system and the water-oil cooler, oil and water pumps with by-pass, which are all fully integrated in the block.
- Optimized engine structure, including precise mechanical clearances, piston rings oil system calculations, and a long, 500-hour oil change interval reduces maintenance needs and operating costs.







Optional high-flow hydraulics are available on the L218, L220, L221, L228, L230, C227, C232, C238.

## ISM ENGINES (L213, L216, L218, L220)

### CLEAN, COMPACT, QUIET AND EASY TO SERVICE

- These high-pressure common-rail (HPCR) engines use CEGR with a PM Catalyst and a DOC (L218/L220) that doesn't require a filter. This allows for easy maintenance.
- The combustion chamber and injection system use fuel efficiently and deliver outstanding power rise and torque.
- Low emissions and an energy-saving design make these engines as friendly to the environment as they are to your budget.
- The rigid cylinder block, small bore dimension and multiple cylinders lead to low noise and vibration—from idling up to maximum power—for added comfort and ease for operators.
- The compact, well-balanced engine is strong and durable. Its multi-level design also allows for simple parts interchangeability.
- One-sided daily maintenance layout allows for quick servicing activities.
- 500-hour service intervals (250 hours for L213/L216) decrease your operating costs, and maintenance downtime.

### ALL WEATHER PERFORMANCE

- Standard glow plugs.
- Reliable starter for easy starts
- Standard easy-access, maintenance-free battery with up to 1,000 cold cranking amps.
- Heavy-duty top and bottom oil cooler/radiator configuration for high cooling capacity under the most extreme conditions. Rigid mount reduces vibration and easy tilt-out for simple cleaning.



### RESPONSIVE HYDRAULICS

- Fast cycle times.
- In-line hydraulic pumps produce less noise and provide extra-smooth operation.
- Optional high-flow hydraulics (on the L218 through L230 & all CTLs) allow you to run attachments hour after hour.
- Enhanced high-flow hydraulics are available on the L230 and C238.
- The SAHR (Spring Applied Hydraulic Release) parking brake can be released or applied by the press of a button and is automatically applied when machine is shut off.

### EXTRA PERFORMANCE

- The dual-range transmission can provide travel speeds in excess of 11 mph (8 mph on CTLs) to save time on and between job sites. It is standard on the L220, L221, L228, L230 and all CTLs.

# EASY ACCESS SERVICEABILITY



On all vertical lift models, the operator is able to engage the boom lock from inside the cab for added safety when exiting the machine with the boom up. Always use caution when entering or exiting the cab, and always use boom locks when entering or exiting the cab with the bucket raised.



Single-side battery maintenance layout allows for quick service and fast maintenance activities.



New Holland “gets it”: If service access is not easy, it won't get done. New Holland groups daily service points for easy access. And all major service points can easily be reached by flipping the cab forward.

## SERVICE MADE EASY

- The rear door and hood provide easy service access for periodic maintenance and daily checkpoints (engine oil, fuel fill, hydraulic oil, coolant and radiator points may be accessed without tools).
- The radiator can be cleaned from both sides.

## SERVICE INTERVALS

- Every 500 hours – change engine oil and filter
- Every 500 hours – change primary fuel filters and hydraulic oil filters
- Every 2,000 hours – radiator drain and flush
- Spend more time on the job and less time in the shop for routine maintenance.

## BUILT TO LAST

- New Holland combined elements from the previous Super Boom loader design with proven technology from larger New Holland loaders to develop a new, superior boom design for the 200 Series.

## OPERATOR FEATURES

- Single boom lock stop keeps the boom in the raised position (vertical lift models only)
- Operators engage and disengage the boom lock without leaving the cab (vertical lift models).

## UNMATCHED ACCESS

If ever needed, the entire cab and boom lift assembly can be tilted forward to provide unrivaled access to components and easy cab cleanout.





The swing-out, rear door provides quick and easy access to check engine oil, hydraulic oil, radiator coolant and fuel fill.



**New Holland Construction Equipment is backed with a 1-Year/Unlimited Hours warranty. See the Warranty and Limitation of Liability for warranty details and terms.**



# MULTI-TASK MASTER

New Holland skid steers and compact track loaders do a lot more than lift and load. Take a look at the wide array of attachments and you'll quickly see how the versatility of these machines can make you more productive. These are just some of the available attachments:

- 4 X 1 Bucket
- Angle Broom
- Augers
- Auto Rake
- Backhoes
- Bale Handler
- Bale Spear
- Brush Grapple
- Chipper
- Cold Planer
- Concrete Bucket
- Concrete Claw
- Dozer Blade
- Harler Power Box Rake
- Hopper Broom
- Log Grapple
- Manure Forks
- Manure Scraper
- Pallet Forks
- Pick-Up Broom
- Post Driver
- Post Puller
- Power Side-Discharge Bucket
- Preparator Landscape Rake
- Rock Bucket
- Root Rake
- Rotary Cutter
- Scrap Grapple
- Silage Defacer
- Silt Fence Installer
- Skid Hoe
- Snow Blade
- Snow Bucket
- Snow Blower
- Snow Pusher
- Steel Tracks
- Stump Grinder
- Tiller
- Tree Shovel
- Tree Spade
- Trencher
- Vibratory Roller



## EASY ATTACHMENT CHANGES

Whatever you need to do—dig, lift, hammer, trench, plane, mow, sweep, rake or drill—there is a New Holland attachment that will get your work done.



## AUXILIARY PRESSURE RELEASE

A connect under pressure (CUP) hydraulic manifold is standard equipment on all models and allows for easy hook-up of all hydraulic attachments. By pushing on the fitting, you release pressure in both the machine and attachment lines. Lines can now be relieved without wrenches.

- A.** Hydraulic oil return (case drain)
- B.** Hydraulic oil supply. These fittings slide into manifold and when pressed in, any pressure within the manifold is directed to the hydraulic oil reservoir.
- C.** Drain line that flows to the tank
- D.** Pressure vents

Optional High Flow Auxiliaries shown below.



## HYDRAULIC COUPLER OPTION

An optional hydraulic attachment coupler increases uptime and productivity on the jobsite by allowing operators to exchange attachments quickly and safely.



# DEALER INSTALLED ACCESSORIES

## PLUG AND PLAY

All New Holland 200 Series machines are pre-wired to accept any electrical accessory. The weather-proof plug is conveniently located on the back of the cab and there is a separate switch already installed inside on the left post.



DRAWBAR



ATTACHMENT HOSE GUIDE



REAR DOOR INSERT



INTERIOR MIRROR KIT



FOOT CONTROLS



BEACON



SINGLE-POINT LIFT



COUNTER WEIGHT KIT



FOPS LEVEL 2



CYLINDER GUARDS



## EXTRAS AND UPGRADES

New Holland offers a variety of important accessories that can be installed easily on either new or used equipment. These can help upgrade an existing unit or customize one for a particular job. New Holland has kits for the 200 Series, but can also provide kits to upgrade previous models whether you are looking to add a weight kit, or enclose a cab and add air-conditioning.

If your upgrade is more than you are comfortable with, your local New Holland dealer will be happy to install any of our kits.



FOUR-POINT LIFT (FRONT)



FOUR-CORNER LED STROBE



FOUR-POINT LIFT (REAR)



FRONT DEMO DOOR



ROAD LIGHT KIT (REAR)

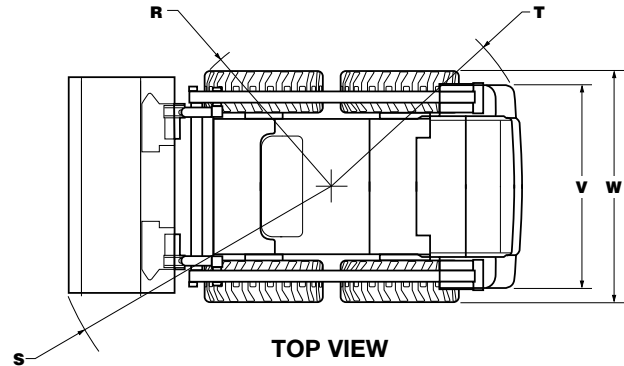
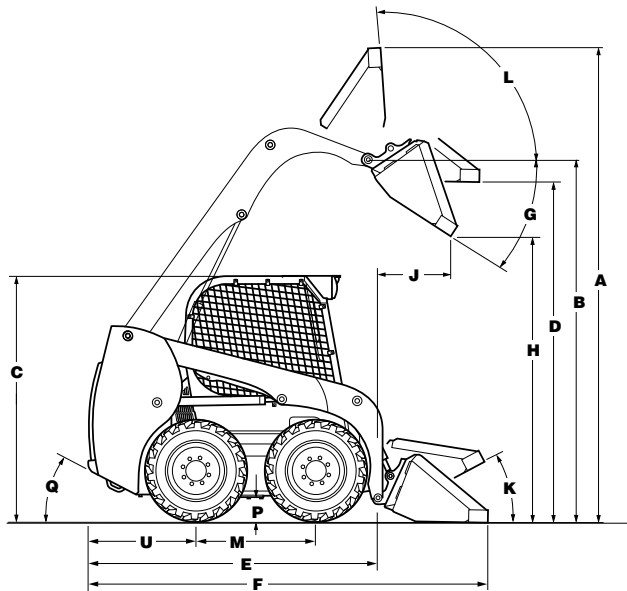


ROAD LIGHT KIT (FRONT)



HIGH BEAM LIGHT KIT

# Skid Steer Specifications (Radial Lift)



DIMENSIONS		L213	L216	L221
<b>Overall operating height</b>				
A.	with foundry/excavating bucket short lip, in (mm)	141.4 (3591)	141.4 (3591)	154.3 (3920)
A.	with low profile/standard lip bucket, in (mm)	146.9 (3732)	146.9 (3732)	158.3 (4050)
A.	with low profile extended/long lip bucket, in (mm)	152 (3859)	152 (3859)	163.2 (4146)
<b>Height to</b>				
B.	Bucket hinge pin, in (mm)	112 (2845)	112 (2845)	123 (3124)
C.	Top of ROPS, in (mm)	75.5 (1919)	75.5 (1919)	78.7 (1998)
D.	Bottom of level bucket, fully raised, in (mm)	105.6 (2682)	105.6 (2682)	116.1 (2950)
<b>Overall length</b>				
E.	without attachment with coupler, in (mm)	95.9 (2435)	95.9 (2435)	105.1 (2669)
F.	with foundry excavation bucket on ground, in (mm)	119.2 (3028)	119.2 (3028)	129.6 (3292)
F.	with low profile bucket, in (mm)	125 (3175)	125 (3175)	133.7 (3397)
F.	with low profile extended bucket, in (mm)	129.8 (3297)	129.8 (3297)	138.8 (3525)
<b>Dump</b>				
G.	Dump angle, degrees	40	40	40
<b>H.</b> Dump height				
	with foundry/excavating bucket short lip, in (mm)	88.4 (2246)	88.4 (2246)	98.2 (2495)
	with low profile/standard lip bucket, in (mm)	84.8 (2154)	84.8 (2154)	95.6 (2428)
J.	Dump reach (max height), in (mm)	18.5 (469)	18.5 (469)	20.3 (517)
<b>Maximum attachment rollback</b>				
K.	Bucket on ground, degrees	26	26	31
L.	Bucket at full height, degrees	95	95	99
<b>Wheelbase and Clearance</b>				
M.	Wheelbase, in (mm)	37 (941)	37 (941)	44.4 (1128)
P.	Ground clearance (bottom of belly pan), in (mm)	7 (178)	7 (178)	8 (203)
Q.	Angle of departure, degrees	22	22	25
<b>Clearance circle</b>				
R.	without bucket, in (mm)	48.7 (1237)	48.7 (1237)	50.7 (1289)
S.	with 60" inch foundry bucket in carry position, in (mm)	73.3 (1862)	73.3 (1862)	79.9 (2031)
S.	with 60" inch low profile bucket on ground, in (mm)	78.5 (1994)	78.5 (1994)	83.1 (2112)
S.	with 60" inch extended low profile on ground, in (mm)	83.1 (2112)	83.1 (2112)	87.7 (2228)
T.	Clearance circle rear, in (mm)	56.4 (1433)	56.4 (1433)	62.9 (1599)
U.	Rear axle to bumper, in (mm)	33.8 (858)	33.8 (858)	36.4 (924)
V.	Tread width, in (mm)	49.2 (1248)	49.2 (1248)	56.9(1448)
W.	Overall width, in (mm)	59.8 (1518)	59.8 (1518)	69.1 (1755)



# Skid Steer Specifications (Radial Lift)

ENGINE	L213	L216	L221
<b>Manufacturer/model</b>	ISM / N844L	ISM / N844LT	FPT/F5H FL463
<b>Type</b>	Diesel 4-stroke, I.D.I.	Diesel 4-stroke, T, I.D.I.	Diesel 4-stroke, Turbo, D.I.
<b>Cylinder</b>	4	4	4
<b>Bore/stroke, in (mm)</b>	3.31 x 3.94 (84 x 100)	3.31 x 3.94 (84 x 100)	3.9x4.3 (99x110)
<b>Displacement, in<sup>3</sup> (L)</b>	135.2 (2.216)	135.2 (2.216)	207 (3.4)
<b>Fuel injection</b>	Indirect	Indirect	HPCR Direct
<b>Fuel</b>	#2 diesel	#2 diesel	#2 diesel
<b>Fuel filter</b>	Pre-filter spin on @ 14 microns Main-filter spin on @ 10 microns	Pre-filter spin on @ 14 microns Main-filter spin on @ 10 microns	Pre-spin on 30 microns Main-spin on 4 microns
<b>Air intake</b>	Naturally aspirated	Turbocharged with external EGR	Turbocharged with CEGR external
<b>Cooling</b>	Liquid	Liquid	Liquid
<b>Engine speeds</b>			
High idle - no load, rpm	2825 +/- 25	2825 +/- 25	2500 +/-25
Rated - full load, rpm	2800	2800	2500
Low idle, rpm	1200 +/-50	1200 +/-50	1150 +/-25
<b>Horsepower per SAE J1349</b>			
Gross hp (kW)	49 (36) @ 2800 rpm	60 (45) @ 2800 rpm	74 (55) @2500 rpm
Net hp (kW)	46 (34) @ 2800 rpm	57 (42) @ 2800 rpm	68 (51) @ 2500 rpm
<b>Peak torque, lb-ft (N•m)</b>	105.5 (143) @ 1800 rpm	139 (188) @ 1800 rpm	232 (314) @ 1400 rpm

POWER TRAIN	L213	L216	L221
<b>Drive pump mechanical</b>			
Pump to engine ratio	1:1	1:1	1:1
Displacement, in <sup>3</sup> (cc)	2.14 (35)	2.14 (35)	2.81 (46)
Flow, gpm (Lpm)	25.1 (95)	25.1 (95)	29.4 (111)
Charge pressure, psi (bar)	360 (25)	360 (25)	360 +/-10 (24.5 +/-0.5)
System relief, psi (bar)	5000 (345)	5000 (345)	5220 (360)
Control	Direct mechanical or Electro Hydraulic	Direct mechanical or Electro Hydraulic	Direct mechanical or electro hydraulic
<b>Drive motors</b>			
Max displacement, in <sup>3</sup> (cc)	19.83 (325)	19.83 (325)	28.7 (470)
Speed @ high idle engine rpm	313	313	241
Speed @ optional high speed, rpm	NA	NA	355
Torque @ max displ. and relief pressure, ft-lbs (N•m)	1315 (1783)	1315 (1783)	1987 (2694)
<b>Travel speed with spec tires</b>			
Low range, mph (km/h)	7.4 (11.9)	7.4 (11.9)	7.8 (12.5)
High range (optional), mph (km/h)	NA	NA	11.4 (18.3)
Final drive	Single-reduction chain drive	Single-reduction chain drive	Single-reduction chain drive
<b>Drive chain</b>			
Size	ASA #80	ASA #80	ASA #100
<b>Axles</b>			
Diameter, in (mm)	2 (50.8)	2 (50.8)	2.44 (61.9)
Length, in (mm)	13.2 (346)	13.2 (346)	15.7 (399)
<b>Parking brake</b>			
Type	Spring applied, hydraulic release multiple disk	Spring applied, hydraulic release multiple disk	Spring applied, hydraulic release multiple disk
Engagement	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine

# Skid Steer Specifications (Radial Lift)

HYDRAULIC SYSTEM	L213	L216	L221
<b>Pumps</b>			
Type	Gear	Gear	Gear
Displacement standard aux., in <sup>3</sup> (cc)	1.45 (23.8)	1.52 (24.9)	2.23 (36.6)
Displacement high flow aux., in <sup>3</sup> (cc)	N/A	N/A	0.84 (13.8)
Pump flow, gpm (Lpm)	17.5 (66.2)	18.4 (69.7)	24.2 (91.5)
Optional high flow, gpm (Lpm)	N/A	N/A	33.2 (125.7)
<b>Loader control valve</b>			
Type	3 Spool / open center / series	3 Spool / open center / series	3 spool / open center / series
Relief pressure, psi (bar)	3046 (210)	3046 (210)	3046 (210)
Hydraulic filter	4 microns / spin on	4 microns / spin on	4 microns / spin on

CYLINDERS	L213	L216	L221
<b>Lift cylinder</b>			
Bore diameter, in (mm)	2.25 (57)	2.25 (57)	2.5 (63.5)
Rod diameter, in (mm)	1.38 (35)	1.38 (35)	1.75 (44.45)
Stroke, in (mm)	25.4 (645)	25.4 (645)	31.69 (804.9)
Closed length, in (mm)	38.9 (989)	38.9 (989)	45.59 (1158)
<b>Bucket cylinders</b>			
Bore diameter, in (mm)	2.25 (57)	2.5 (63.5)	2.75 (69.9)
Rod diameter, in (mm)	1.25 (32)	1.38 (34.9)	1.38 (34.9)
Stroke, in (mm)	14.6 (370)	14.6 (370)	16.14 (410)
Closed length, in (mm)	23.4 (594)	23.4 (594)	24.02 (610)

WEIGHTS	L213	L216	L221
<b>Operating weight</b> , lbs (kg)	5070 (2300)	5510 (2505)	6970 (3160)
<b>Shipping weight</b> , lbs (kg)	4770 (2160)	5210 (2370)	6670 (3025)

SERVICE CAPACITIES	L213	L216	L221
<b>Fuel tank</b> , gal (L)	16 (60.5)	16 (60.5)	19.5 (73.8)
<b>Engine oil with filter</b> , qt (L)	7.5 (7.1)	7.5 (7.1)	10 (9.4)
<b>Hydraulic system</b>			
System capacity with filter, qt (L)	30.9 (29.2)	30.9 (29.2)	34 (32.2)
<b>Chain tanks (per side)</b> , qt (L)	6.6 (6.25)	6.6 (6.25)	27.5 (26)

PERFORMANCE SPECS	L213	L216	L221
<b>Rated operating load</b>			
50% tip, lbs (kg)	1300 (590)	1600 (725)	2100 (905)
Tipping load, lbs (kg)	2600 (1179)	3200 (1455)	4200 lbs (1814)
<b>Breakout forces</b>			
Lift cylinder, lbs (kN)	2850 (12.7) Tip Limit	3310 (14.7) Tip Limit	4570 (20.3)
Bucket cylinder, lbs (kN)	4180 (18.6)	5270 (23.4)	7270 (32.3)
<b>Cycle times</b>			
Raise, sec	3.2	3.2	3.6
Lower, sec	2.0	2.0	1.8
Dump, sec	1.8	1.8	2.2
Roll back, sec	1.3	1.3	1.7

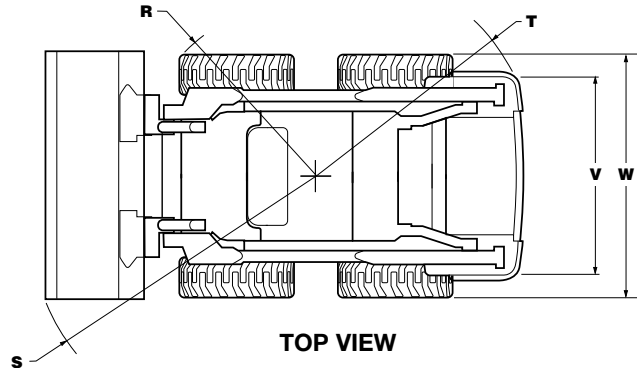
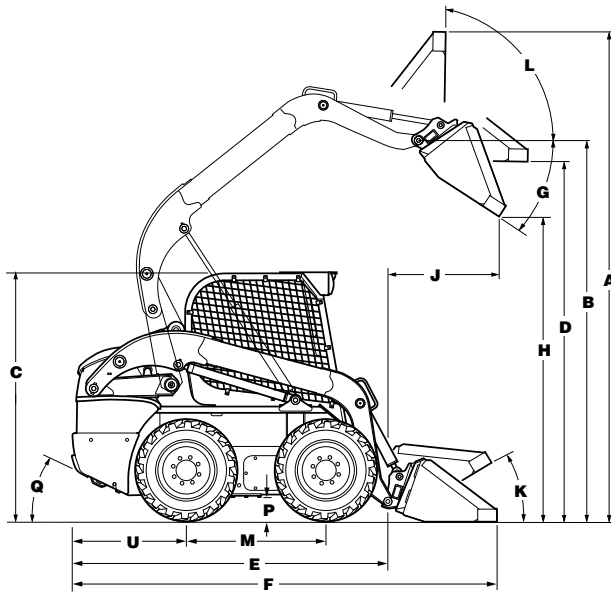
**For all Dimensions and Performance Metrics, unless otherwise specified:**

L213 – Equipped with 175 lb operator, 60” Dirt & Foundry Bucket and 10 x 16.5 tires

L216 – Equipped with 175 lb operator, 60” Dirt & Foundry Bucket and 10 x 16.5 tires

L221 - Equipped with 175 lb operator, 72” Dirt & Foundry Bucket and 12 x 16.5 tires

# Super Boom® Skid Steer Specifications (Vertical Lift)



DIMENSIONS		L218	L220	L228	L230
<b>Overall operating height</b>					
A.	with foundry/excavating bucket short lip, in (mm)	150.4 (3820)	151.4 (3845)	159.7 (4056)	161.3 (4096)
A.	with low profile/standard lip bucket, in (mm)	154.6 (3927)	155.6 (3952)	163.7 (4159)	165.3 (4199)
A.	with low profile extended/long lip bucket, in (mm)	159.6 (4055)	160.6 (4080)	168.8 (4287)	170.4 (4327)
<b>Height to</b>					
B.	Bucket hinge pin, in (mm)	120 (3048)	121 (3073)	129.4 (3287)	131.1 (3327)
C.	Top of ROPS, in (mm)	77.7 (1974)	78.7 (1998)	78.8 (2002)	80.4 (2042)
D.	Bottom of level bucket, fully raised, in (mm)	113.3 (2877)	114.3 (2902)	122.6 (3115)	124.2 (3155)
<b>Overall length</b>					
E.	without attachment with coupler, in (mm)	105.7 (2697)	105.7 (2697)	117.8 (2993)	118.9 (3021)
F.	with foundry excavation bucket on ground, in (mm)	131.9 (3352)	131.4 (3338)	142.9 (3631)	144 (3659)
F.	with low profile bucket, in (mm)	136.1 (3456)	135.4 (3440)	147 (3734)	143.1 (3762)
F.	with low profile extended bucket, in (mm)	141.1 (3585)	140.5 (3569)	152.1 (3863)	153.2 (3891)
<b>Dump</b>					
G.	Dump angle, degrees	52	52	55	55
<b>H.</b> Dump height					
	with foundry/excavating bucket short lip, in (mm)	93.7 (2380)	94.5 (2402)	102.9 (2615) @ 45°	104.5 (2655) @ 45°
	with low profile/standard lip bucket, in (mm)	90.7 (2305)	91.7 (2330)	100 (2541) @ 45°	101.6 (2581) @ 45°
J.	Dump reach (max height), in (mm)	30.8 (783)	29.8 (758)	32.3 (821) @ 45°	30.7 (781) @ 45°
<b>Maximum attachment rollback</b>					
K.	Bucket on ground, degrees	35	34	34	33
L.	Bucket at full height, degrees	88	88	85	85
<b>Wheelbase and Clearance</b>					
M.	Wheelbase, in (mm)	44.4 (1128)	44.4 (1128)	52 (1322)	52 (1322)
P.	Ground clearance (bottom of belly pan), in (mm)	7 (178)	8 (203)	8 (203)	9.5 (243)
Q.	Angle of departure, degrees	23	25	24	27
<b>Clearance circle</b>					
R.	without bucket, in (mm)	50.7 (1289)	50.7 (1289)	56.2 (1428)	56.2 (1428)
S.	with foundry bucket in carry position, in (mm)	79.6 (2021)	80.9 (2055)	80.3 (2039)	84.8 (2155)
	with 66" bucket		with 72" bucket	with 72" bucket	with 78" bucket
S.	with low profile bucket on ground, in (mm)	83.9 (2132)	84.6 (2150)	87 (2210)	88.4 (2246)
	with 66" bucket		with 72" bucket	with 72" bucket	with 78" bucket
S.	with extended low profile on ground, in (mm)	88.6 (2250)	89.3 (2268)	91.5 (2323)	92.6 (2352)
	with 66" bucket		with 72" bucket	with 72" bucket	with 78" bucket
T.	Clearance circle rear, in (mm)	62.9 (1599)	62.9 (1599)	70.4 (1789)	71.2 (1809)
U.	Rear axle to bumper, in (mm)	36.4 (924)	36.4 (924)	40.7 (1034)	42.0 (1069)
V.	Tread width, in (mm)	53.9 (1371)	56.9 (1448)	56.9 (1448)	62.2 (1580)
	with 10" x 16.5" tires		with 12" x 16.5" tires	with 12" x 16.5" tires	with 14" x 17.5" tires
W.	Overall width, in (mm)	66.1 (1678)	69.1 (1755)	69.6 (1768)	76 (1930)

# Super Boom<sup>®</sup> Skid Steer Specifications (Vertical Lift)

ENGINE	L218	L220	L228	L230
<b>Manufacturer/model</b>	ISM / N844LTA	ISM / N844LTA	FPT / F5H FL463A*F001	FPT / F5BFL413E*B002
<b>Type</b>	Diesel 4-stroke, Turbo, D.I.	Diesel 4-stroke, Turbo, D.I.	Diesel 4-stroke, Turbo, D.I.	Diesel 4-stroke, Turbo, D.I.
<b>Cylinder</b>	4	4	4	4
<b>Bore/stroke, in (mm)</b>	3.31 x 3.94 (84 x 100)	3.31 x 3.94 (84 x 100)	3.9 x 4.3 (99 x 110)	3.9 x 4.3 (99 x 110)
<b>Displacement, in<sup>3</sup> (L)</b>	135 (2.2)	135 (2.2)	207.5 (3.4)	207.5 (3.4)
<b>Fuel injection</b>	HPCR Direct	HPCR Direct	HPCR Direct	HPCR Direct
<b>Fuel</b>	#2 diesel	#2 diesel	#2 diesel	#2 diesel
<b>Fuel filter</b>	Pre-filter spin on @ 30 microns Main-filter spin on @ 4 microns	Pre-filter spin on @ 30 microns Main-filter spin on @ 4 microns	Pre-filter spin on @ 30 microns Main-filter spin on @ 4 microns	Pre-filter 99.8% @ 30 microns Main filter 95% @ 4 microns
<b>Air intake</b>	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR
<b>Cooling</b>	Liquid	Liquid	Liquid	Liquid
<b>Engine speeds</b>				
High idle - no load, rpm	2825 +/- 25	2825 +/- 25	2500 +/- 25	2500 +/- 25
Rated - full load, rpm	2800	2800	2500	2500
Low idle, rpm	1200 +/- 50	1200 +/- 50	1150 +/- 25	1150 +/- 25
<b>Horsepower per SAE J1349</b>				
Gross hp (kW)	60 (45) @ 2800 rpm	67 (50) @ 2800 rpm	74 (55) @ 2500 rpm	90 (67) @ 2500 rpm
Net hp (kW)	57 (42) @ 2800 rpm	64 (47.7) @ 2800 rpm	68 (51) @ 2500 rpm	84 (63) @ 2500 rpm
<b>Peak torque, lb-ft (N•m)</b>	135 (183) @ 1800 rpm	153 (208) @ 1800 rpm	232 (314) @ 1400 rpm	282 (383) @ 1400 rpm

POWER TRAIN	L218	L220	L228	L230
<b>Drive pump mechanical</b>				
Pump to engine ratio	1:1	1:1	1:1	1:1
Displacement, in <sup>3</sup> (cc)	2.14 (35)	2.14 (35)	2.07 (34)	2.07 (34)
Flow at rated engine rpm @100% eff., gpm (Lpm)	25.1 (95)	25.1 (95)	29.4 (111)	29.4 (111)
Charge pressure, psi (bar)	360 (24.5)	360 (24.5)	360 (24.5)	360 (24.5)
System relief, psi (bar)	5000 (345)	5000 (345)	5220 (360)	5220 (360)
Control	Direct mechanical	Direct mechanical	Mechanical servo	Mechanical servo
<b>Drive pump electro hydraulic</b>				
Pump to engine ratio	1:1	1:1	1:1	1:1
Displacement, in <sup>3</sup> (cc)	2.14 (35)	2.14 (35)	2.75 (45)	2.75 (45)
Flow, gpm (Lpm)	25.1 (95)	25.1 (95)	24.2 (91.5)	24.2 (91.5)
Charge pressure, psi (bar)	362 (25)	362 (25)	362 (25)	362 (25)
System relief, psi (bar)	5220 (360)	5220 (360)	5220 (360)	5220 (360)
Control	Electro hydraulic	Electro hydraulic	Electro hydraulic	Electro hydraulic
<b>Drive motors</b>				
Max displacement, in <sup>3</sup> (cc)	19.83 (325)	19.83 (325)	28.7 (470)	28.7 (470)
Speed @ high idle engine rpm	313	313	237	237
Speed @ optional high speed, rpm	443	443	355	355
Torque @ max displ. and relief pressure, lb-ft (N•m)	1315 (1783)	1315 (1783)	1987 (2694)	1987 (2694)
<b>Travel speed with spec tires</b>				
Low range, mph (km/h)	7.4 (11.9)	7.8 (12.5)	7.0 (11.3)	7.7 (12.4)
High range (optional), mph (km/h)	10.8 (17.4)	11.4 (18.3)	10.5 (16.9)	11.5 (18.5)
Final drive	Single-reduction chain drive	Single-reduction chain drive	Single-reduction chain drive	Single-reduction chain drive
<b>Drive chain</b>				
Size	ASA #80	ASA #80	ASA #100	ASA #100
<b>Axles</b>				
Diameter, in (mm)	2 (50.8)	2 (50.8)	2.44 (62)	2.44 (62)
Length, in (mm)	15.1 (384)	15.1 (384)	15.6 (396)	15.6 (396)
<b>Parking brake</b>				
Type	Spring applied, hydraulic release disc			
Engagement	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine			

# Super Boom® Skid Steer Specifications (Vertical Lift)

HYDRAULIC SYSTEM	L218	L220	L228	L230
<b>Pumps</b>				
Type	Gear	Gear	Gear	Gear
Displacement standard aux., in <sup>3</sup> (cc)	1.7 (27.8)	1.7 (27.8)	2.23 (36.6)	2.23 (36.6)
Displacement high flow aux., in <sup>3</sup> (cc)	.84 (13.8)	.84 (13.8)	1.24 (20.4)	1.24 (20.4)
Pump flow, gpm (Lpm)	20.6 (78)	20.6 (78)	24.2 (91.5)	24.2 (91.5)
Optional high flow, gpm (Lpm)	30.7 (116.2)	30.7 (116.2)	37.6 (142.5)	37.6 (142.5)
<b>Loader control valve</b>				
Type	3 spool / open center / series	3 spool / open center / series	3 spool / open center / series	3 spool / open center / series
Relief pressure, psi (bar)	3046 (210)	3046 (210)	3046 (210)	3046 (210)
Hydraulic filter	4 microns / spin on	4 microns / spin on	4 microns / spin on	4 microns / spin on

CYLINDERS	L218	L220	L228	L230
<b>Lift cylinder</b>				
Bore diameter, in (mm)	2.25 (57)	2.5 (63.5)	2.75 (68.85)	2.75 (68.85)
Rod diameter, in (mm)	1.38 (34.9)	1.75 (44.45)	2.0 (50.8)	2.0 (50.8)
Stroke, in (mm)	26.8 (681)	26.8 (681)	33.4 (847.9)	33.4 (847.9)
Closed length, in (mm)	38.7 (982)	38.7 (982)	47.1 (1196)	47.1 (1196)
<b>Bucket cylinders</b>				
Bore diameter, in (mm)	2.5 (63.5)	2.75 (69.9)	3.0 (76.2)	3.0 (76.2)
Rod diameter, in (mm)	1.38 (34.9)	1.38 (34.9)	1.5 (38.1)	1.5 (38.1)
Stroke, in (mm)	16.1 (410)	16.1 (410)	16.4 (410)	16.4 (410)
Closed length, in (mm)	24 (610)	24 (610)	24 (610)	24 (610)

WEIGHTS	L218	L220	L228	L230
<b>Operating weight</b> , lbs (kg)	5930 (2690)	6470 (2930)	8245 (3740)	8735 (3962)
<b>Shipping weight</b> , with bucket, lbs (kg)	5630 (2550)	6170 (2795)	7565 (3430)	7965 (3610)

SERVICE CAPACITIES	L218	L220	L228	L230
<b>Fuel tank</b> , gal (L)	19.5 (73.8)	19.5 (73.8)	25.5 (96.5)	25.5 (96.5)
<b>Engine oil with filter</b> , qt (L)	7.5 (7.1)	7.5 (7.1)	8.9 (8.5)	8.9 (8.5)
<b>Hydraulic system</b>				
System capacity with filter, qt (L)	34 (32.2)	34 (32.2)	45.4 (48)	45.4 (48)
<b>Chain tanks (per side)</b> , qt (L)	7.9 (7.4)	7.9 (7.4)	23.5 (22.2)	23.5 (22.2)

PERFORMANCE SPECS	L218	L220	L228	L230
<b>Rated operating load</b>				
50% tip, lbs (kg)	1800 (818)	2000 (905)	2800 (1270)	3000 (1360)
Tipping load, lbs (kg)	3600 (1633)	4000 (1814)	5600 (2540)	6000 (2722)
<b>Breakout forces</b>				
Lift cylinder, lbs (kN)	2620 (11.7)	3450 (15.3)	6030 (27.3)	6350 (28.2)
Bucket cylinder, lbs (kN)	5550 (24.7)	7300 (32.5)	8620 (38.3)	8620 (38.3)
<b>Cycle times</b>				
Raise, sec	2.8	3.5	4.5	4.5
Lower, sec	2.3	2.3	2.6	2.6
Dump, sec	2.1	2.6	2.6	2.6
Roll back, sec	1.5	2.0	2.0	2.0

**For all Dimensions and Performance Metrics, unless otherwise specified:**

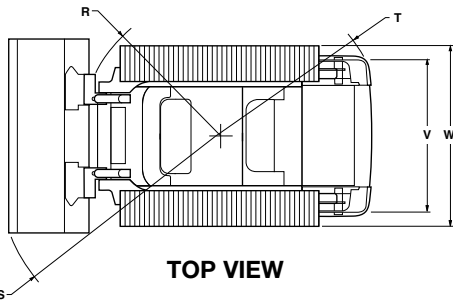
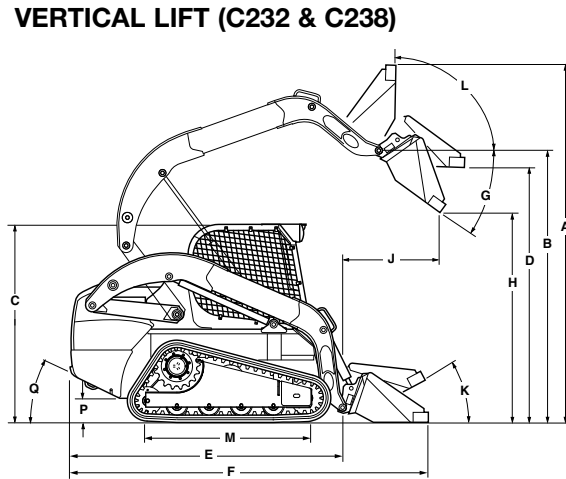
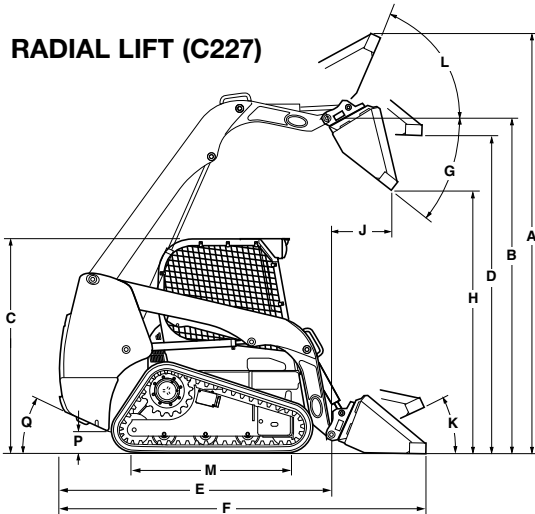
- L218 – Equipped with 175 lb operator, 66" Dirt & Foundry Bucket with 10 x 16.5 tires
- L220 – Equipped with 175 lb operator, 66" Dirt & Foundry Bucket with 12 x 16.5 tires
- L228 – Equipped with 175 lb operator, 72" Dirt & Foundry Bucket with 12 x 16.5 tires
- L230 – Equipped with 175 lb operator, 78" Dirt & Foundry Bucket with 14 x 17.5 tires

# 200 Series Skid Steer Tire Options

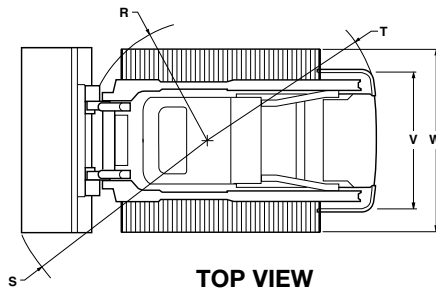
SKID STEER TIRE OFFERING		L213	L216	L218	L220	L221	L228	L230
8501207	10 X 16.5 Heavy Duty (59 OTW)	Standard	Standard					
8501507	27 X 10.5 - 15 Premium (64 OTW)	X	X					
8501307	10 X16.5 Premium (59 OTW)	X	X					
8501707	10 X 16.5 Heavy Duty (64 OTW)			Standard	X	X		
8501807	10 X 16.5 Premium (64 OTW)			X	X	X		
8501907	10 X 16.5 Premium Liner (64 OTW)			X	X	X		
8502007	10 X 16.5 Severe Duty (64 OTW)			X	X	X		
8502107	10 X 16.5 Non- Pneumatic (64 OTW)	X	X	X	X	X		
8503107	12 X 16.5 Heavy Duty (70 OTW)			X	Standard	Standard	Standard	X
8503207	12 X 16.5 Premium (70 OTW)			X	X	X	X	X
8503307	12 X 16.5 Premium-Liner (70 OTW)			X	X	X	X	X
8503407	12 X 16.5 Severe Duty (70 OTW)				X	X	X	X
8503607	12 X 16.5 Non-Pneumatic (70 OTW)					X	X	X
8505107	14 X 17.5 Premium (76 OTW)						X	Standard



# Compact Track Loader Specifications



TOP VIEW



TOP VIEW

DIMENSIONS		C227	C232	C238
<b>Overall operating height</b>				
A.	with foundry/excavating bucket short lip, in (mm)	154.3 (3920)	161.3 (4096)	161.3 (4096)
A.	with low profile/standard lip bucket, in (mm)	158.3 (4020)	165.3 (4199)	165.3 (4199)
A.	with low profile extended/long lip bucket, in (mm)	163.2 (4146)	170.4 (4327)	170.4 (4327)
<b>Height to</b>				
B.	Bucket hinge pin, in (mm)	123 (3124)	131.1 (3330)	131.1 (3330)
C.	Top of ROPS, in (mm)	78.7 (1998)	80.4 (2043)	80.4 (2043)
D.	Bottom of level bucket, fully raised, in (mm)	116.1 (2950)	124.2 (3155)	124.2 (3155)
<b>Overall length</b>				
E.	without attachment with coupler, in (mm)	105.1 (2669)	117.8 (2993)	118.9 (3021)
F.	with foundry excavation bucket on ground, in (mm)	129.6 (3292)	142.9 (3631)	144.0 (3659)
F.	with low profile bucket, in (mm)	133.7 (3397)	147 (3734)	148.1 (3762)
F.	with low profile extended bucket, in (mm)	138.8 (3525)	152.1 (3863)	153.2 (3891)
<b>Dump</b>				
G.	Dump angle, degrees	40	55	55
<b>H.</b> Dump height				
	with foundry/excavating bucket short lip, in (mm)	98.2 (2495) @ 45°	104.5 (2655) @ 45°	104.5 (2655) @ 45°
	with low profile/standard lip bucket, in (mm)	95.6 (2428) @ 45°	101.6 (2581) @ 45°	101.6 (2581) @ 45°
J.	Dump reach (max height), in (mm)	22.3 (568) @ 45°	34.4 (875) @ 45°	34.4 (875) @ 45°
<b>Maximum attachment rollback</b>				
K.	Bucket on ground, degrees	31	33	33
L.	Bucket at full height, degrees	99	85	85
<b>Track and Clearance</b>				
M.	Track on ground, in (mm)	55.9 (1419)	64.5 (1639)	64.5 (1639)
P.	Ground clearance (bottom of belly pan), in (mm)	8 (203)	9.5 (243)	9.5 (243)
Q.	Angle of departure, degrees	32	32	32
<b>Clearance circle</b>				
R.	without bucket, in (mm)	50.7 (1289)	56.2 (1428)	56.2 (1428)
S.	with foundry bucket in carry position, in (mm)	79.9 (2031) with 72" bucket	84.8 (2155) with 78" bucket	84.8 (2155) with 78" bucket
S.	with low profile bucket on ground, in (mm)	83.1 (2112) with 72" bucket	88.4 (2246) with 78" bucket	88.4 (2246) with 78" bucket
S.	with extended low profile on ground, in (mm)	87.7 (2228) with 72" bucket	92.6 (2352) with 78" bucket	92.6 (2352) with 78" bucket
T.	Clearance circle rear, in (mm)	62.9 (1599)	70.4 (1789)	70.4 (1789)
V.	Track gauge, in (mm)	53.4 (1356)	58.3 (1480)	58.3 (1480)
W.	Overall width, in (mm)	65.9 (1676)	76 (1930)	76 (1930)

# Compact Track Loader Specifications

ENGINE	C227	C232	C238
<b>Manufacturer/model</b>	FPT / F5H FL463A	FPT / F5H FL463A*F001	FPT / F5BFL413E*B002
<b>Type</b>	Diesel 4-stroke, turbo, D.I.	Diesel 4-stroke, turbo, D.I.	Diesel 4-stroke, Turbo, D.I.
<b>Cylinder</b>	4	4	4
<b>Bore/stroke, in (mm)</b>	3.9 x 4.3 (99 x 109)	3.9 x 4.3 (99 x 110)	3.9 x 4.3 (99 x 110)
<b>Displacement, in<sup>3</sup> (L)</b>	207 (3.4)	207 (3.4)	207 (3.4)
<b>Fuel injection</b>	HPCR Direct	HPCR Direct	HPCR Direct
<b>Fuel</b>	#2 diesel	#2 diesel	#2 diesel
<b>Fuel filter</b>	Pre-spin on 30 microns Main-spin on 4 microns	Pre-spin on 30 microns Main-spin on 4 microns	Pre-filter spin on @ 30 microns Main-filter spin on @ 4 microns
<b>Air intake</b>	Turbocharged with external EGR	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR
<b>Cooling</b>	Liquid	85W140 gear oil	85W140 gear oil
<b>Engine speeds</b>			
High idle - no load, rpm	2500 +/- 25	2500 +/- 25	2500 +/- 25
Rated - full load, rpm	2500	2500	2500
Low idle, rpm	1150 +/- 25	1150 +/- 25	1150 +/- 25
<b>Horsepower per SAE J1349</b>			
Gross hp (kW)	74 (55) @ 2500 rpm	74 (55) @ 2500 rpm	90 (67) @ 2500 rpm
Net hp (kW)	68 (51) @ 2500 rpm	68 (51) @ 2500 rpm	84 (63) @ 2500 rpm
<b>Peak torque, lb-ft (N•m)</b>	232 (314) @ 1400 rpm	232 (314) @ 1400 rpm	282 (383) @ 1400 rpm

POWER TRAIN	C227	C232	C238
<b>Drive pump electro hydraulic</b>			
Pump to engine ratio	1:1	1:1	1:1
Displacement, in <sup>3</sup> (cc)	2.75 (45)	2.75 (45)	2.75 (45)
Flow, gpm (Lpm)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)
Charge pressure, psi (bar)	362 (24.5)	362 (24.5)	360 (24.5)
System relief, psi (bar)	5220 (360)	5220 (360)	5220 (360)
Control	Mechanical or Electro hydraulic	Mechanical or Electro hydraulic	Mechanical or Electro hydraulic
<b>Drive motors</b>			
Effective Max displacement, in <sup>3</sup> (cc)	67 (1098)	67 (1098)	67 (1098)
Effective Displacement opt high speed, in <sup>3</sup> (cc)	43.6 (714)	43.6 (714)	43.6 (714)
Speed @ high idle engine rpm	103	103	103
Speed @ optional high speed, rpm	156	156	156
Torque @ max displ. and relief pressure, lb-ft (N•m)	4654 (6310)	4654 (6310)	4654 (6310)
<b>Travel speed</b>			
Low range, mph (km/h)	5.1 (8.2)	5.1 (8.2)	5.1 (8.2)
High range (optional), mph (km/h)	7.6 (12.2)	7.6 (12.2)	7.6 (12.2)
Final drive	Planetary gearbox with 2-speed motor	Planetary gearbox with 2-speed motor	Planetary gearbox with 2-speed motor
<b>Parking brake</b>			
Type	Spring applied, hydraulic release disc	Spring applied, hydraulic release disc	Spring applied, hydraulic release disc
Engagement	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine	Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine

UNDERCARRIAGE	C227	C232	C238
<b>System</b>	S-Wave Pattern	S-Wave Pattern	S-Wave Pattern
<b>Idlers / rollers per side</b>	2/3	2/4	2/4
<b>Ground pressure</b>			
PSI (with spec belt)	5.9	4.2	4.6



# Compact Track Loader Specifications

HYDRAULIC SYSTEM	C227	C232	C238
<b>Pumps</b>			
Type	Gear	Gear	Gear
Displacement standard aux., in <sup>3</sup> (cc)	2.23 (36.6)	2.23 (36.6)	2.23 (36.6)
Displacement high flow aux., in <sup>3</sup> (cc)	.76 (12.5)	1.24 (20.4)	1.24 (20.4)
Pump flow, gpm (Lpm)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)
Optional high flow, gpm (Lpm)	32.4 (122.6)	37.6 (142.5)	37.6 (142.5)
<b>Loader control valve</b>			
Type	3 spool / open center / series	3 spool / open center / series	3 spool / open center / series
Relief pressure, psi (bar)	3046 (210)	3046 (210)	3046 (210)
Hydraulic filter	6 microns / spin on	6 microns / spin on	6 microns / spin on

CYLINDERS	C227	C232	C238
<b>Lift cylinder</b>			
Bore diameter, in (mm)	2.5 (63.5)	2.5 (63.5)	2.75 (69.8)
Rod diameter, in (mm)	1.75 (44.5)	1.75 (44.5)	2.0 (50.8)
Stroke in, in (mm)	31.69 (804.9)	33.5 (851.9)	33.4 (847.9)
Closed length, in (mm)	45.59 (1158.0)	46.9 (1192)	47.1 (1196)
<b>Bucket cylinders</b>			
Bore diameter, in (mm)	2.75 (69.9)	3.9 (99)	3.9 (99)
Rod diameter, in (mm)	1.38 (34.9)	1.5 (38.1)	1.5 (38.1)
Stroke, in (mm)	16.14 (410)	16.14 (410)	16.14 (410)
Closed length, in (mm)	24.02 (610)	24.02 (610)	24.02 (610)
<b>Rated operating load</b>			
50% tip, lbs (kg)	2700 (1225)	3200 (1451)	3800 (1723)
35% tip, lbs (kg)	1890 (860)	2240 (1018)	2660 (1209)
Tipping load, lbs (kg)	5400 (2449)	6400 (2902)	7600 (3447)
<b>Breakout forces</b>			
Lift cylinder, lbs (kN)	6080 (27)	4840 (21.5)	6110 (27.2)
Bucket cylinder, lbs (kN)	7270 (32.3)	7510 (33.4)	7360 (32.7)
<b>Cycle times</b>			
Raise, sec	3.6	3.8	4.5
Lower, sec	1.8	2.4	2.6
Dump, sec	2.2	2.6	2.6
Roll back, sec	1.7	2.0	2.0

WEIGHTS	C227	C232	C238
<b>Operating weight, lbs (kg)</b>	8270 (3750)	9630 (4370)	10,100 (4581)
<b>Shipping weight, lbs (kg)</b>	7970 (3615)	9300 (4220)	9765 (4430)

SERVICE CAPACITIES	C227	C232	C238
<b>Fuel tank, gal (L)</b>	19.5 (73.8)	25.5 (96.5)	25.5 (96.5)
<b>Engine oil with filter, qt (L)</b>	8.9 (8.5)	8.9 (8.5)	8.9 (8.5)
<b>System Capacity with filter, qt (L)</b>	34 (32.2)	47 (44.5)	47 (44.5)

**For all Dimensions and Performance Metrics, unless otherwise specified:**

C227 – Equipped with 175 lb operator, 72” Dirt & Foundry Bucket with 12.6 (320 mm) track belt

C232 – Equipped with 175 lb operator, 78” Heavy Duty Bucket and 17.7 (450 mm) track belt

C238 – Equipped with 175 lb operator, 78” Heavy Duty Bucket and 17.7 (450 mm) track belt

# Skid Steer/Compact Track Loader Bucket Options

SKID STEER AND CTL BUCKET OFFERING	L213	L216	L218	L220	L221	L223	L228	L230	C227	C232	C238
<b>Dirt &amp; Foundry Bucket</b>											
60" Dirt & Foundry Bucket (1524 mm), 11.5 cu. ft. Heaped Capacity	X	X									
66" Dirt & Foundry Bucket (1676 mm), 15.2 cu. ft. Heaped Capacity	X	X	X	X	X				X		
72" Dirt & Foundry Bucket (1829 mm), 16.7 cu. ft. Heaped Capacity	X	X	X	X	X	X	X	X	X		
78" Dirt & Foundry Bucket (1981 mm), 18.4 cu. ft. Heaped Capacity			X	X	X	X	X	X	X	X	X
<b>Low Profile Bucket</b>											
60" Low Profile Bucket (1524 mm), 11.5 cu. ft. Heaped Capacity	X	X									
66" Low Profile Bucket (1676 mm), 13.2 cu. ft. Heaped Capacity	X	X	X	X	X				X		
72" Low Profile Bucket (1829 mm), 14.5 cu. ft. Heaped Capacity	X	X	X	X	X	X	X	X	X		
<b>Low Profile Extended Bucket</b>											
60" Low Profile Extended (1524 mm), 14.3 cu. ft. Heaped Capacity	X	X									
66" Low Profile Extended (1676 mm), 15.5 cu. ft. Heaped Capacity	X	X	X	X	X				X		
72" Low Profile Extended (1829 mm), 17.1 cu. ft. Heaped Capacity	X	X	X	X	X	X	X	X	X		
78" Low Profile Extended (1981 mm), 18.6 cu. ft. Heaped Capacity			X	X	X	X	X	X	X	X	X
84" Low Profile Extended (2134 mm), 20.2 cu. ft. Heaped Capacity			X	X	X	X	X	X	X	X	X
<b>Light Material Bucket</b>											
60" Light Material Bucket (1524 mm), 19.7 cu. ft. Heaped Capacity	X	X									
72" Light Material Bucket (1829 mm), 23.7 cu. ft. Heaped Capacity	X	X	X	X	X	X	X	X	X		
84" Light Material Bucket (2134 mm), 27.9 cu. ft. Heaped Capacity			X	X	X	X	X	X	X	X	X
<b>Manure &amp; Slurry Bucket</b>											
60" Manure-Slurry Bucket (1524 mm), 16.7 cu. ft. Heaped Capacity	X	X									
72" Manure-Slurry Bucket (1829 mm), 19.1 cu. ft. Heaped Capacity	X	X	X	X	X	X	X	X	X		
84" Manure-Slurry Bucket (2134 mm), 22.5 cu. ft. Heaped Capacity			X	X	X	X	X	X	X	X	X
<b>Heavy Duty Dirt Bucket</b>											
66" Heavy Duty Dirt Bucket (1676 mm), 13.3 cu. ft. Heaped Capacity	X	X	X	X	X				X		
72" Heavy Duty Dirt Bucket (1829 mm), 14.6 cu. ft. Heaped Capacity			X	X	X	X	X	X	X		
78" Heavy Duty Dirt Bucket (1981 mm), 15.9 cu. ft. Heaped Capacity			X	X	X	X	X	X	X	X	X
84" Heavy Duty Dirt Bucket (2134 mm), 19.4 cu. ft. Heaped Capacity						X	X	X		X	X



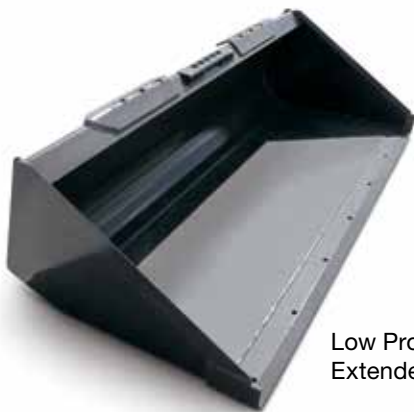
Heavy Duty  
Dirt Bucket



Dirt Foundry  
Bucket



Light Material  
Bucket



Low Profile  
Extended Bucket



Manure &  
Slurry Bucket



## 200 SERIES LOADERS

### L213

49 Gross hp (36 kW)

Rated operating capacity  
1,300 lbs (590 kg)

### L216

60 Gross hp (45 kW)

Rated operating capacity  
1,600 lbs (725 kg)

### L218

60 Gross hp (45 kW)

Rated operating capacity  
1,800 lbs (818 kg)

### L220

67 Gross hp (50 kW)

Rated operating capacity  
2,000 lbs (905 kg)

### L221

74 Gross hp (55 kW)

Rated operating capacity  
2,100 lbs (905 kg)

### L228

74 Gross hp (55 kW)

Rated operating capacity  
2,800 lbs (1270 kg)

### L230

90 Gross hp (67 kW)

Rated operating capacity  
3,000 lbs (1360 kg)

### C227

74 Gross hp (55 kW)

Rated operating capacity  
2,700 lbs (1225 kg)

### C232

74 Gross hp (55 kW)

Rated operating capacity  
3,200 lbs (1451 kg)

### C238

90 Gross hp (67 kW)

Rated operating capacity  
3,800 lbs (1723 kg)

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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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