SKID STEER LOADERS AND COMPACT TRACK LOADERS

L213 | L216 | L218 | L220 | L221 | L228 | L234

C227 | C232 | C238

NEW HOLLAND CONSTRUCTION



Courtesy of Machine.Market

Reach higher, dump farther and travel faster.

No matter what your line of work—landscaping, farming or construction—you'll complete your jobs more quickly and 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 high-sided truck boxes or hoppers.



Courtesy of Machine.Market

	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)	5,180 (2350)	112 (2845)	18.5 (469)
	L216	60 (45)	1,600 (725)	5,645 (2560)	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)	6,230 (2832)	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)
	L234	90 (67)	3,400 (1542)	8,900 (4045)	131.1 (3330)	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)



Superior operator comfort

New Holland knows that comfort is not simply a luxury: It's vital to your business. Operators who are comfortable are more productive with less fatigue. That's why the wide New Holland cab provides more head room and shoulder room for any size operator, and there's more than twice the visibility of previous models in the critical zones based on visibility testing*. Comfortably sealed, pressurized cabs feature air vents that are strategically located to cover operator extremities as well as defrost the door and windows.





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. And, if you need more service access, the flip-up cab opens the machine for easy access.

*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.

Courtesy of Machine.Market

Designed for hard work and demanding conditions.

New Holland skid steer and compact track loaders provide outstanding breakout forces to keep you working in the toughest conditions, while impressive dump height improves working effectiveness. Every area of these loaders is designed to make your workday more comfortable and productive.



Front halogen lights positioned at side of cab expand visibility for easier positioning of loads overhead and maneuvering in low-clearance areas

No rear frame towers to block your view

See-through area on the cab roof for a clear view to the bucket at full height

Among the widest cabs in the industry

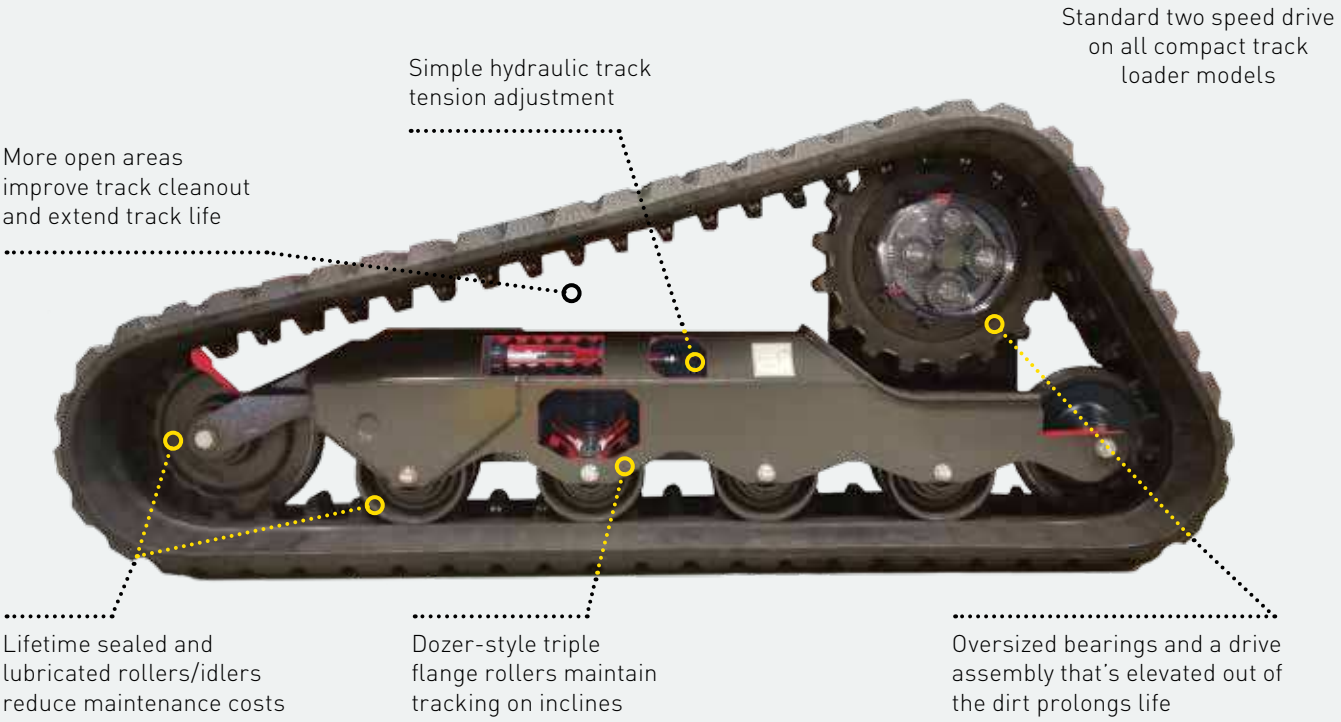
Huge glass door for superior visibility to all corners

Easy daily service checkpoints

Long wheelbase for stability and smooth riding comfort

Lower front door threshold for clear sightline to the loader bucket and trench

Courtesy of Machine.Market





A smooth ride and improved track life

New track undercarriage design on compact track loaders results in improved cleanout, less noise and increased durability.

The new low-profile undercarriage design of New Holland compact track loaders provides longer-lasting track and a smoother ride by using steel-embedded tracks rolling on the rubber instead of the steel. The undercarriage design has fewer moving parts than competitive designs for less complexity. The simplified carrier design provides easier cleanout, and improved carrier life.

MODEL	TRACK WIDTH	OVER TRACK WIDTH	GROUND PRESSURE
C227	12.6 in	65.9 in	5.9 psi
C232	17.7 in	76.0 in	4.2 psi
C238	17.7 in	76.0 in	4.4 psi





Super Boom® maximizes your visibility

You work with speed and confidence due to the unmatched visibility of the New Holland 200 Series. You have a clear view to the cutting edge, to the bucket at full height, to the sides, and to the rear. Rear visibility is among the best in the industry due to a large rear window, low engine hood and no rear frame towers. It's an important advantage that helps you complete jobs quickly and improve your overall efficiency.

Courtesy of Machine.Market

Comfort is built in to increase productivity.

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. Your view is clear in all directions—even to the raised bucket or attachment thanks to the see-through area on the cab roof. Switches and gauges are right in front of you and easy to use from the comfort of your seat. Warning lights with alarm include engine coolant temperature, engine oil pressure, air cleaner restriction, hydraulic filter restriction and hydraulic oil temperature. Other standard features include a dome light, a backup and horn alarm package, taillights, halogen work lights (including two in front and two in back), pre-wiring for a rotating beacon and 4-point strobe or rear side lights.



Optional Glide Ride

For intense load-and-carry operations, the optional Glide Ride feature prevents loads from shifting during transport so you retain loads and get a smooth ride over rough job sites for less fatigue.



Courtesy of Machine.Market



Comfortable, clean, and quiet

Choose the fully sealed and pressurized enclosed cab to minimize dust and exhaust infiltration. It's quiet too, with full-covering trim that absorbs noise. A heater/defroster kit and optional air conditioning allow you to control the climate in any weather. Another option is side windows that are easy to remove and clean. A demolition door is available in lieu of a glass door for rugged working conditions. Even more options are available to customize the comfort of your operating environment and increase productivity, including turn signals, radio with speakers, a block heater, self-leveling, hydraulic coupler, high-flow hydraulics and enhanced high-flow hydraulics.





Seat and controls to match your preference

All 200 Series loaders offer a selection of seats, with optional suspension seats or the heated, composite air-ride seat for maximum support and ultimate comfort. An optional, factory-installed lap bar, is now offered on all skid steers and compact track loader models. Our ergonomically designed joysticks put all controls right at your fingertips. Mechanical controls are standard with electro-hydraulic switchable (ISO-H pattern) controls optional on all models. 200 Series skid steers and compact track loaders built with EH (electro-hydraulic) controls feature multiple speed and sensitivity settings. This allows operators to personalize the controls depending on their preferences. You can adjust armrests up or down and EH control mounts have both vertical and horizontal adjustment to fit any operator.

Easy entry and exit

It's easy to enter and exit 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. The cab is one of the widest in the industry, and ample leg room and foot room adds to operator comfort.



Courtesy of Machine.Market

Hard work and demanding conditions? Bring it on!

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



Responsive hydraulics

You can expect fast cycle times from the reliable hydraulic system. The in-line hydraulic pumps produce less noise and provide extra-smooth operation. Add the optional high-flow hydraulics on the L218, L220, L221, L228, L234, C227, C232, C238 to run attachments hour after hour. The Spring Applied Hydraulic Release (SAHR) parking brake can be released or applied by the press of a button and is automatically applied when machine is shut off.

Fast travel

The 200 Series 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, L234 and all CTLs.



FPT™ F5 Engines (L221, L228, L234, 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. They are turbocharged and feature externally cooled EGR (exhaust gas recirculation) for efficient air handling and high engine power density with the shortest load response time. The L234 and C238 use Diesel Oxidation Catalyst (DOC) with Selective Catalytic Reduction (SCR) using Diesel Exhaust Fluid (DEF). All other machines use a PM Catalyst with DOC that does not require a Diesel Particulate Filter (DPF). This allows for easier maintenance to the machine. A state-of-the-art direct fuel injection system uses a simple, proven, mechanical, rotary pump that provides accurate fuel delivery. Operators will notice minimum noise and vibration due to the design of the engine, including camshaft in crankcase, suspended oil pan, and balancer counterweights incorporated in crankshaft webs. The 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.

ISM Engines (L213, L216, L218, L220)

Clean, compact and quiet

Low emissions and an energy-saving design make these engines as friendly to the environment as they are to your budget. A high-pressure common-rail (HPCR) system uses cooled exhaust gas recirculation (CEGR) with a diesel oxidation catalyst (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. The compact, well-balanced engine is strong and durable. Its multi-level design also allows for simple parts interchangeability. The rigid cylinder block, small bore dimension and multiple cylinders lead to low noise and vibration—from idling up to maximum power—for added operator comfort.

Courtesy of Machine.Market

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 extra-fuel savings and reduced operating noise.





Courtesy of Machine.Market

Easy-access serviceability.

New Holland "gets it." Daily service points are grouped together 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. You can access engine oil, fuel fill, hydraulic oil, coolant and radiator points without tools, and you can clean the radiator from either side. Long service intervals mean you spend more time working and less time in the shop for routine maintenance. Engine oil and filter changes are required every 500 hours as are changes to the primary fuel filters and hydraulic oil filters. Radiator drain and flush is required only every 2,000 hours.



Simple boom lock

On all vertical lift models, you can 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.





Courtesy of Machine.Market





All-weather performance

A standard maintenance-free battery provides up to 1,000 cold cranking amps. The single-side battery maintenance layout allows for quick service and fast maintenance activities. Glow plugs and a reliable starter are also standard. The heavy-duty top and bottom oil cooler/radiator configuration provides high cooling capacity under the most extreme conditions.



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.

Courtesy of Machine.Market

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













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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

Attachment considerations:

As you evaluate your attachment options, here are some things to consider.

- Sized to machine
- Specific job to complete
- Hydraulic flow required





Courtesy of Machine.Market

Customize your machine with these dealer-installed accessories.





REAR DOOR INSERT



INTERIOR MIRROR KIT



FOOT CONTROLS



BEACON



SINGLE-POINT LIFT



COUNTER WEIGHT KIT



FOPS LEVEL 2



CYLINDER GUARDS

Courtesy of Machine.Market







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.

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.



DRAWBAR



ATTACHMENT HOSE GUIDE



FOUR-POINT LIFT (FRONT)



FOUR-CORNER LED STROBE



FOUR-POINT LIFT (REAR)



FRONT DEMO DOOR



ROAD LIGHT KIT (REAR)

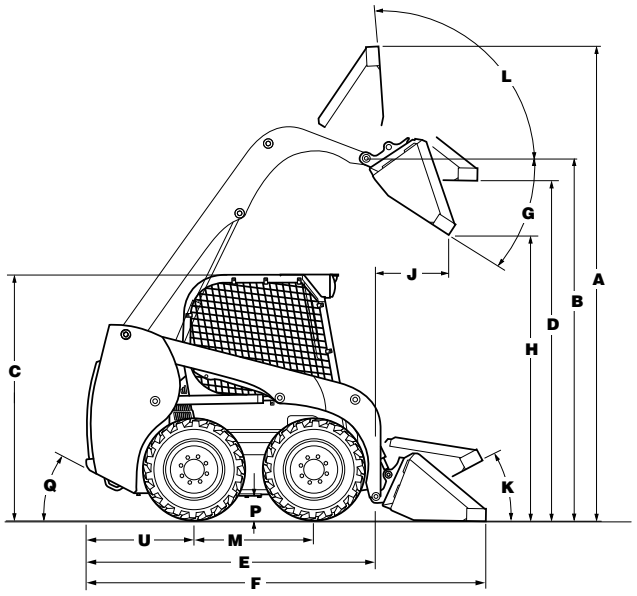


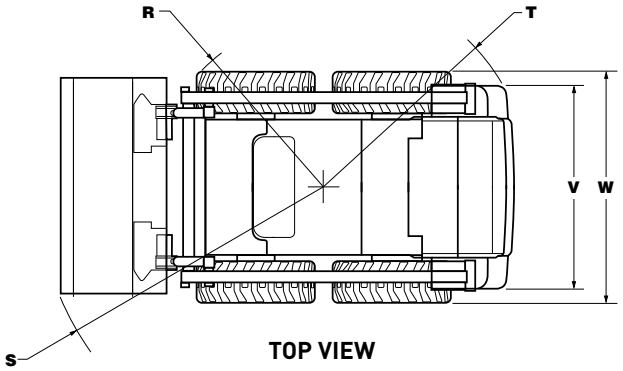
ROAD LIGHT KIT (FRONT)



HIGH BEAM LIGHT KIT

Courtesy of Machine.Market





TOP VIEW

			L213	L216	L221
DIMENSIONS					
	Overall operating height				
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)
	Height to				
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)
	Overall length				
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)
	Dump				
G.	Dump angle	degrees	40	40	40
H.	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)
	Maximum attachment rollback				
K.	Bucket on ground	degrees	26	26	31
L.	Bucket at full height	degrees	95	95	99
	Wheelbase and clearance				
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
	Clearance circle				
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) with 10" x 16.5" tires	49.2 (1248) with 10" x 16.5" tires	56.9(1448) with 12"x16.5" tires
W.	Overall width	in (mm)	59.8 (1518)	59.8 (1518)	69.1 (1755)

Courtesy of Machine.Market

		L213	L216	L221
ENGINE				
Manufacturer/model		ISM / N844L	ISM / N844LT	FPT/F5H FL463
Type		Diesel 4-stroke, I.D.I.	Diesel 4-stroke, T, I.D.I.	Diesel 4-stroke, Turbo, D.I.
Cylinder		4	4	4
Bore/stroke	in (mm)	3.31 x 3.94 (84 x 100)	3.31 x 3.94 (84 x 100)	3.9x4.3 (99x110)
Displacement	in^3 (L)	135.2 (2.216)	135.2 (2.216)	207 (3.4)
Fuel injection		Indirect	Indirect	HPCR Direct
Fuel		#2 diesel	#2 diesel	#2 diesel
Fuel filter		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
Air intake		Naturally aspirated	Turbocharged with external EGR	Turbocharged with CEGR external
Cooling		Liquid	Liquid	Liquid
Engine speeds				
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
Horsepower per SAE J1349				
	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
Peak torque	lb-ft (N•m)	105.5 (143) @ 1800 rpm	139 (188) @ 1800 rpm	232 (314) @ 1400 rpm

		L213	L216	L221
POWERTRAIN				
Drive pump mechanical				
Pump to engine ratio		1:1	1:1	1:1
Displacement	in^3 (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
Drive motors				
Max displacement	in^3 (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	lb-ft (N•m)	1315 (1783)	1315 (1783)	1987 (2694)
Travel speed with spec tires				
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
Drive chain				
Size		ASA #80	ASA #80	ASA #100
Axles				
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)
Parking brake				
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

Courtesy of Machine.Market

		L213	L216	L221
HYDRAULIC SYSTEM				
Pumps				
Type		Gear	Gear	Gear
Displacement standard aux.	in^3 (cc)	1.45 (23.8)	1.52 (24.9)	2.23 (36.6)
Displacement high flow aux.	in^3 (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)
Loader control valve				
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

		L213	L216	L221
CYLINDERS				
Lift cylinder				
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)
Bucket cylinders				
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)

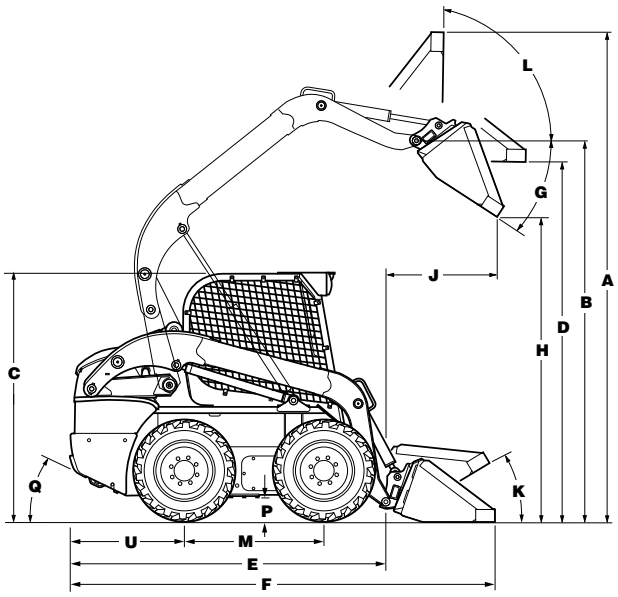
		L213	L216	L221
WEIGHTS				
Operating weight	lbs (kg)	5070 (2300)	5510 (2505)	6970 (3160)
Shipping weight	lbs (kg)	4770 (2160)	5210 (2370)	6670 (3025)

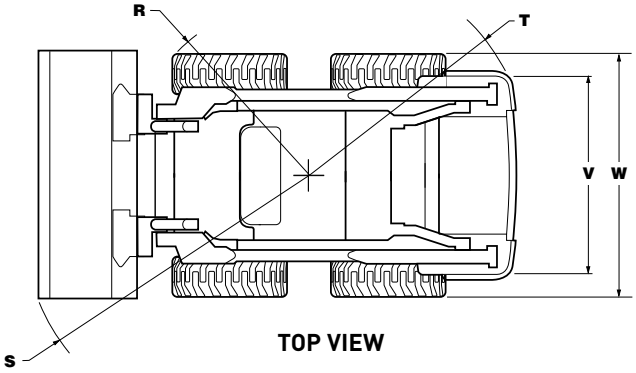
		L213	L216	L221
SERVICE CAPACITIES				
Fuel tank	gal (L)	16 (60.5)	16 (60.5)	19.5 (73.8)
Engine oil with filter	qt (L)	7.5 (7.1)	7.5 (7.1)	10 (9.4)
Chain tanks (per side)	qt (L)	6.6 (6.25)	6.6 (6.25)	27.5 (26)
Hydraulic system				
System capacity with filter	qt (L)	30.9 (29.2)	30.9 (29.2)	34 (32.2)

		L213	L216	L221
PERFORMANCE SPECS				
Rated operating load				
50% tip	lbs (kg)	1300 (590)	1600 (725)	2100 (953)
Tipping load	lbs (kg)	2600 (1179)	3200 (1455)	4200 lbs (1905)
Breakout forces				
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)
Cycle times				
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

Courtesy of Machine.Market





TOP VIEW

			L218	L220	L228	L234
DIMENSIONS						
	Overall operating height					
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)
	Height to					
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)
	Overall length					
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)	148 (3760)
F.	with low profile extended bucket	in (mm)	141.1 (3585)	140.5 (3569)	152.1 (3863)	152.9 (3884)
	Dump					
G.	Dump angle	degrees	52	52	55	48
H.	Dump height					
	with foundry/excavating bucket short lip	in (mm)	93.7 (2380)	94.7 (2405)	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°
	Maximum attachment rollback					
K.	Bucket on ground	degrees	35	34	34	33
L.	Bucket at full height	degrees	88	88	85	85
	Wheelbase and clearance					
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
	Clearance circle					
R.	without bucket	in (mm)	50.7 (1289)	50.7 (1289)	55.6 (1412)	56.2 (1428)
S.	with foundry bucket in carry position	in (mm)	79.6 (2021) with 66" bucket	80.9 (2055) with 72" bucket	84.0 (2134) with 72" bucket	84.8 (2155) with 78" bucket
S.	with low profile bucket on ground	in (mm)	83.9 (2132) with 66" bucket	84.6 (2150) with 72" bucket	87.7 (2228) with 72" bucket	88.4 (2246) with 78" bucket
S.	with extended low profile on ground	in (mm)	88.6 (2250) with 66" bucket	89.3 (2268) with 72" bucket	92.3 (2345) with 72" bucket	93 (2363) 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)	42.4 (1078)
V.	Tread width	in (mm)	53.9 (1371) with 10" x 16.5" tires	56.9 (1448) with 12" x 16.5" tires	56.9 (1448) with 12" x 16.5" tires	62.2 (1580) with 14" x 17.5" tires
W.	Overall width	in (mm)	66.1 (1678)	69.1 (1755)	69.6 (1768)	76 (1930)

Courtesy of Machine.Market

		L218	L220	L228	L234
ENGINE					
Manufacturer/model		ISM / N844LTA	ISM / N844LTA	FPT / F5H FL463A*F001	FPT / F5BFL413E*B002
Type		Diesel 4-stroke, Turbo, D.I.	Diesel 4-stroke, Turbo, D.I.	Diesel 4-stroke, Turbo, D.I.	Diesel 4-stroke, Turbo, D.I.
Cylinder		4	4	4	4
Bore/stroke	in (mm)	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)
Displacement	in³ (L)	135 (2.2)	135 (2.2)	207.5 (3.4)	207.5 (3.4)
Fuel injection		HPCR Direct	HPCR Direct	HPCR Direct	HPCR Direct
Fuel		#2 diesel	#2 diesel	#2 diesel	#2 diesel
Fuel filter		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
Air intake		Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR
Cooling		Liquid	Liquid	Liquid	Liquid
Engine speeds					
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
Horsepower per SAE J1349					
	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
Peak torque	lb-ft (N•m)	135 (183) @ 1800 rpm	153 (208) @ 1800 rpm	232 (314) @ 1400 rpm	282 (383) @ 1400 rpm

		L218	L220	L228	L234
POWER TRAIN					
Drive pump mechanical					
Pump to engine ratio		1:1	1:1	1:1	1:1
Displacement	in³ (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
Drive pump electro hydraulic					
Pump to engine ratio		1:1	1:1	1:1	1:1
Displacement	in³ (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
Drive motors					
Max displacement	in³ (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)
Travel speed with spec tires					
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
Drive chain					
Size		ASA #80	ASA #80	ASA #100	ASA #100
Axles					
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)
Parking brake					
Type		Spring applied, hydraulic release disc			
Engagement		Depress on/off brake button on instrument panel, disconnect lapbelt, get off seat, or stop engine			

Courtesy of Machine.Market

		L218	L220	L228	L234
HYDRAULIC SYSTEM					
Pumps					
Type		Gear	Gear	Gear	Gear
Displacement standard aux.	in^3 (cc)	1.7 (27.8)	1.7 (27.8)	2.23 (36.6)	2.23 (36.6)
Displacement high flow aux.	in^3 (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)
Loader control valve					
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)	3450 (238)
Hydraulic filter		4 microns / spin on	4 microns / spin on	4 microns / spin on	4 microns / spin on

		L218	L220	L228	L234
CYLINDERS					
Lift cylinder					
Bore diameter	in (mm)	2.25 (57)	2.5 (63.5)	2.75 (68.85)	2.75 (69.85)
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)
Bucket cylinders					
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)	15.7 (398)
Closed length	in (mm)	24 (610)	24 (610)	24 (610)	24 (610)

		L218	L220	L228	L234
WEIGHTS					
Operating weight	lbs (kg)	6230 (2832)	6470 (2930)	8245 (3740)	8900 (4045)
Shipping weight, with bucket	lbs (kg)	5930 (2695)	6170 (2795)	7565 (3430)	8557 (3890)

		L218	L220	L228	L234
SERVICE CAPACITIES					
Fuel tank	gal (L)	19.5 (73.8)	19.5 (73.8)	25.5 (96.5)	25.5 (96.5)
Engine oil with filter	qt (L)	7.5 (7.1)	7.5 (7.1)	8.9 (8.5)	8.9 (8.5)
Chain tanks (per side)	qt (L)	7.9 (7.4)	7.9 (7.4)	23.5 (22.2)	23.5 (22.2)
DEF tank	gal (L)	NA	NA	NA	2.8 (10.7)
Hydraulic system					
System capacity with filter	qt (L)	34 (32.2)	34 (32.2)	48 (45.4)	48 (45.4)

		L218	L220	L228	L234
PERFORMANCE SPECS					
Rated operating load					
50% tip	lbs (kg)	1800 (818)	2000 (905)	2800 (1270)	3400 (1542)
Tipping load	lbs (kg)	3600 (1633)	4000 (1814)	5600 (2540)	6800 (3084)
Breakout forces					
Lift cylinder	lbs (kN)	2620 (11.7)	3450 (15.3)	6030 (27.3)	6918 (30.8)
Bucket cylinder	lbs (kN)	5550 (24.7)	7300 (32.5)	8620 (38.3)	9323 (41.5)
Cycle times					
Raise	sec	2.8	3.5	4.5	4.5
Lower	sec	2.3	2.3	2.6	3.4
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
L234 – Equipped with 175 lb operator, 78" Dirt & Foundry Bucket with 14 x 17.5 tires

Courtesy of Machine.Market

	L213	L216	L218	L220	L221	L228	L234
TIRE OPTIONS							
10 X 16.5 Heavy Duty (59 OTW)	Standard	Standard					
27 X 10.5 - 15 Premium (64 OTW)	X	X					
10 X16.5 Premium (59 OTW)	X	X					
10 X 16.5 Heavy Duty (64 OTW)			Standard	X	X		
10 X 16.5 Premium (64 OTW)			X	X	X		
10 X 16.5 Premium Liner (64 OTW)			X	X	X		
10 X 16.5 Severe Duty (64 OTW)			X	X	X		
10 X 16.5 Non- Pneumatic (64 OTW)	X	X	X	X	X		
12 X 16.5 Heavy Duty (70 OTW)			X	Standard	Standard	Standard	
12 X 16.5 Premium (70 OTW)			X	X	X	X	
12 X 16.5 Premium-Liner (70 OTW)			X	X	X	X	
12 X 16.5 Severe Duty (70 OTW)				X	X	X	
12 X 16.5 Non-Pneumatic (70 OTW)					X	X	
14 x 17.5 Heavy Duty (76 OTW)							X
14 x 17.5 Severe Duty (76 OTW)							X
14 x 17.5 Non-Pneumatic (76 OTW)							X
14 X 17.5 Premium (76 OTW)						X	

Heavy Duty



Premium & Premium (with Liner)



Severe Duty



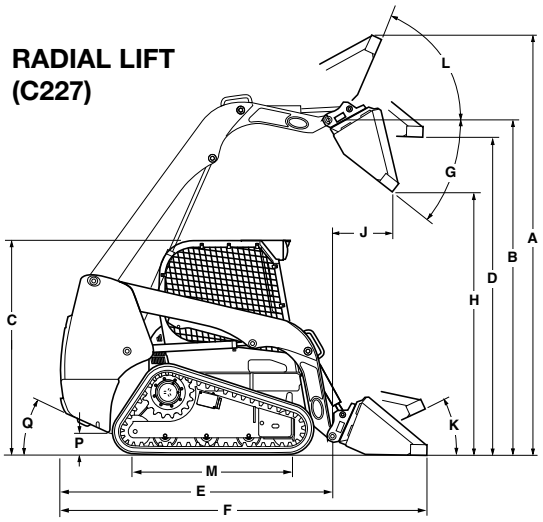
Non-Pneumatic

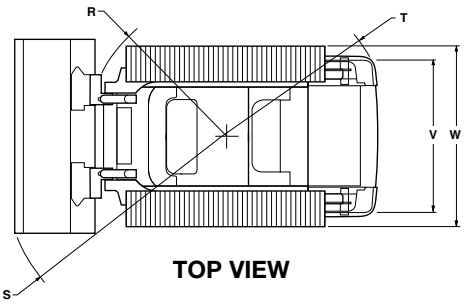




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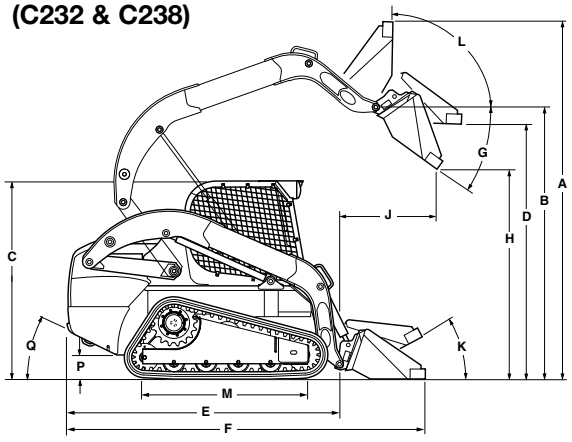
RADIAL LIFT (C227)

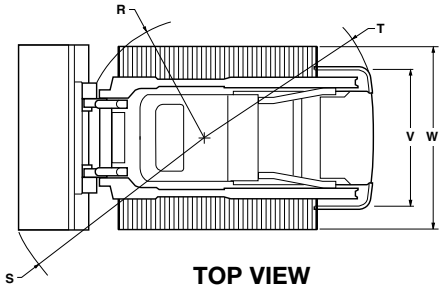




TOP VIEW

VERTICAL LIFT (C232 & C238)





TOP VIEW

			C227	C232	C238
DIMENSIONS					
	Overall operating height				
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)
	Height to				
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)
	Overall length				
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)
	Dump				
G.	Dump angle	degrees	40	55	55
H.	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°
	Maximum attachment rollback				
K.	Bucket on ground	degrees	31	33	33
L.	Bucket at full height	degrees	99	85	85
	Track and clearance				
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
	Clearance circle				
R.	without bucket	in (mm)	55.5 (1410)	58.2 (1482)	58.2 (1482)
S.	with foundry bucket in carry position	in (mm)	83.9 (2132) with 72" bucket	87.6 (2225) with 78" bucket	87.6 (2225) with 78" bucket
S.	with low profile bucket on ground	in (mm)	87.6 (2226) with 72" bucket	91.4 (2322) with 78" bucket	91.4 (2322) with 78" bucket
S.	with extended low profile on ground	in (mm)	92.3 (2344) with 72" bucket	95.8 (2434) with 78" bucket	95.8 (2434) with 78" bucket
T.	Clearance circle rear	in (mm)	59.1 (1501)	67 (1702)	67 (1702)
V.	Track guage	in (mm)	53.4 (1356)	58.3 (1480)	58.3 (1480)
W.	Overall width	in (mm)	65.9 (1676)	76 (1930)	76 (1930)

Courtesy of Machine.Market

		C227	C232	C238
ENGINE				
Manufacturer/model		FPT / F5H FL463A	FPT / F5H FL463A*F001	FPT / F5BFL413E*B002
Type		Diesel 4-stroke, turbo, D.I.	Diesel 4-stroke, turbo, D.I.	Diesel 4-stroke, Turbo, D.I.
Cylinder		4	4	4
Bore/stroke	in (mm)	3.9 x 4.3 (99 x 109)	3.9 x 4.3 (99 x 110)	3.9 x 4.3 (99 x 110)
Displacement	in^3 (L)	207 (3.4)	207 (3.4)	207 (3.4)
Fuel injection		HPCR Direct	HPCR Direct	HPCR Direct
Fuel		#2 diesel	#2 diesel	#2 diesel
Fuel filter		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
Air intake		Turbocharged with external EGR	Turbocharged Aftercooled with external EGR	Turbocharged Aftercooled with external EGR
Cooling		Liquid	85W140 gear oil	85W140 gear oil
Engine speeds				
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
Horsepower per SAE J1349				
	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
Peak torque	lb-ft (N•m)	232 (314) @ 1400 rpm	232 (314) @ 1400 rpm	282 (383) @ 1400 rpm

		C227	C232	C238
POWER TRAIN				
Drive pump electro hydraulic				
Pump to engine ratio		1:1	1:1	1:1
Displacement	in^3 (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
Drive motors				
Effective Max displacement	in^3 (cc)	67 (1098)	67 (1098)	67 (1098)
Effective Displacement opt high speed	in^3 (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)
Travel speed				
Low range	mph (km/h)	5.1 (8.2)	5.1 (8.2)	5.1 (8.2)
High range (optional)		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
Parking brake				
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

	C227	C232	C238
UNDERCARRIAGE			
System	S-Wave Pattern	S-Wave Pattern	S-Wave Pattern
Idlers / rollers per side	2/3	2/4	2/4
Ground pressure			
PSI (with spec belt)	5.9	4.2	4.4

Courtesy of Machine.Market

		C227	C232	C238
HYDRAULIC SYSTEM				
Pumps				
Type		Gear	Gear	Gear
Displacement standard aux.	in^3 (cc)	2.23 (36.6)	2.23 (36.6)	2.23 (36.6)
Displacement high flow aux.	in^3 (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		32.4 (122.6)	37.6 (142.5)	37.6 (142.5)
Loader control valve				
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

		C227	C232	C238
CYLINDERS				
Lift cylinder				
Bore diameter	in (mm)	2.5 (63.5)	2.5 (63.5)	2.75 (69.8)
Rod diameter, in (mm)	in (mm)	1.75 (44.5)	1.75 (44.5)	2.0 (50.8)
Stroke in, in (mm)	in (mm)	31.69 (804.9)	33.5 (851.9)	33.4 (847.9)
Closed length, in (mm)	in (mm)	45.59 (1158.0)	46.9 (1192)	47.1 (1196)
Bucket cylinders				
Bore diameter, in (mm)	in (mm)	2.75 (69.9)	3.9 (99)	3.9 (99)
Rod diameter, in (mm)	in (mm)	1.38 (34.9)	1.5 (38.1)	1.5 (38.1)
Stroke, in (mm)	in (mm)	16.14 (410)	16.14 (410)	16.14 (410)
Closed length, in (mm)	in (mm)	24.02 (610)	24.02 (610)	24.02 (610)
Rated operating load				
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)
Breakout forces				
Lift cylinder	lbs (kN)	6080 (27)	4840 (21.5)	6110 (27.2)
Bucket cylinder	lbs (kN)	7270 (32.3)	7360 (32.7)	7360 (32.7)
Cycle times				
Raise	sec	3.6	3.9	4.6
Lower	sec	1.8	2.5	2.7
Dump	sec	2.2	2.7	2.7
Roll back	sec	1.7	2.0	2.0

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

	C227	C232	C238
SERVICE CAPACITIES			
Fuel tank, gal (L)	19.5 (73.8)	25.5 (96.5)	25.5 (96.5)
Engine oil with filter, qt (L)	8.9 (8.5)	8.9 (8.5)	8.9 (8.5)
System Capacity with filter, qt (L)	34 (32.2)	47 (44.5)	47 (44.5)
DEF tank, gal (L)	NA	NA	2.8 (10.7)

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

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SKID STEER AND CTL BUCKET OFFERING	L213	L216	L218	L220	L221	L223	L228	L234	C227	C232	C238
Dirt & foundry bucket											
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
Low profile bucket											
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		
Low profile Extended Bucket											
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
Light Material Bucket											
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
Manure & Slurry Bucket											
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
Heavy Duty Dirt Bucket											
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

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THINK SAFETY

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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