

L213 L215 L218 L220 L223 L225 200 SERIES SKID STEER LOADERS

PRELIMINARY



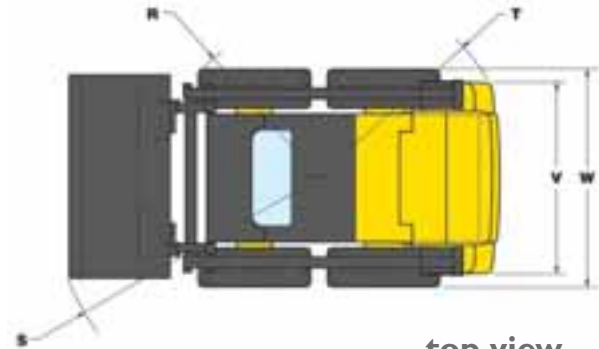
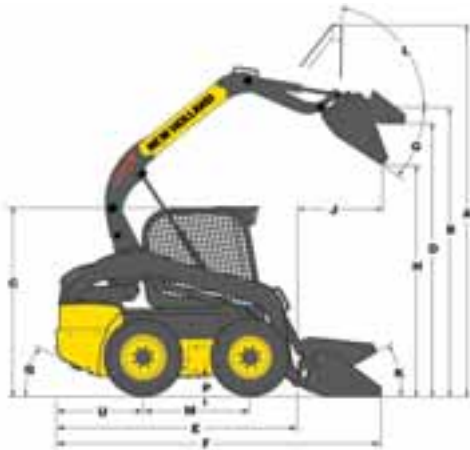
	L213	L215	L218	L220	L223	L225
ENGINE POWER	46 hp	52 hp	60 hp	60 hp	74 hp	82 hp
OPERATING WEIGHT	2270 kg	2400 kg	2660 kg	2900 kg	3350 kg	3580 kg
RATED OPERATING CAPACITY (@50% OF TIPPING LOAD)	590 kg	680 kg	818 kg	905 kg	1020 kg	1135 kg



BUILT AROUND YOU

L218/L220/L223/L225

MACHINE WEIGHTS & DIMENSIONS (mm)



top view

		L218	L220	L223	L225
Overall operating height					
A - with foundry/excavating bucket short lip	mm	3820	3845	4056	4056
A - with low profile/standard lip bucket	mm	3927	3952	4159	4159
A - with low profile extended/long lip bucket	mm	4055	4080	4287	4287
Height to					
B - Bucket hinge pin	mm	3048	3073	3290	3290
C - Top of ROPS	mm	1974	1988	2002	2002
D - Bottom of level bucket fully raised	mm	2877	2902	3115	3115
Overall length					
E - without attachment with coupler	mm	2685	2685	2993	2986
F - with foundry excavation bucket on ground		3352	3338	3631	3624
F - with low profile bucket	mm	3456	3440	3727	3727
F - with low profile extended bucket	mm	3585	3569	3863	3856
Dump					
G - Dump angle degrees		52	52	55	55
H - Dump height					
with foundry/excavating bucket short lip	mm	2377	2402	2615	2615
with low profile/standard lip bucket	mm	2251	2276	2556	2556
J - Dump reach (max height)	mm	783	758	820	820
Maximum attachment rollback					
K - Bucket on ground degrees		35	34	34	34
L - Bucket at full height degrees		88	88	85	85
Wheelbase and Clearance					
M - Wheelbase	mm	1128	1128	1322	1322
P - Ground clearance (bottom of belly pan)	mm	178	203	203	203
Q - Angle of departure, degrees		23	25	24	24
Clearance circle					
R - without bucket	mm	1289	1289	1428	1428
S - with foundry bucket in carry position	mm	2021 with 1.67 m ³ bucket	2055 with 1.82 m ³ bucket	2039 with 1.82 m ³ bucket	2039 with 1.82 m ³ bucket
S - with low profile bucket on ground	mm	2132 with 1.67 m ³ bucket	2150 with 1.82 m ³ bucket	2210 with 1.82 m ³ bucket	2210 with 1.82 m ³ bucket
S - with extended low profile on ground	mm	2250 with 1.67 m ³ bucket	2268 with 1.82 m ³ bucket	2323 with 1.82 m ³ bucket	2323 with 1.82 m ³ bucket
T - Clearance circle rear	mm	1606	1599	1796	1789
U - Rear axle to bumper	mm	924	924	1034	1034
V - Tread width	mm	1371 with 10" x 16.5" tyres	1448 with 12" x 16.5" tyres	1448 with 12" x 16.5" tyres	1465 with 12" x 16.5" tyres
W - Overall width	mm	1678	1755	1758	1758

SPECIFICATIONS

		L218	L220	L223	L225
ENGINE					
Manufacturer/model		ISM / N844LT	ISM / N844LT	FPT Industrial/ F5C E9454	FPT Industrial/ F5C E9454
Type		Diesel 4-stroke	Diesel 4-stroke	Diesel 4-stroke	Diesel 4-stroke
		Turbo, I.D.I.	Turbo, I.D.I.	Turbo, I.D.I.	Turbo, I.D.I.
Cylinder		4	4	4	4
Bore/stroke	mm	84x100	84x100	99x104	99x104
Displacement	l	2.2	2.2	3.2	3.2
Fuel injection		Indirect	Indirect	Direct	Direct
Fuel		#2 diesel	#2 diesel	#2 diesel	#2 diesel
Fuel filter		in line with water separator	in line with water separator	in line with water separator	in line with water separator
Air intake Turbocharged		with internal EGR	with internal EGR	with internal EGR	with internal EGR
Cooling		Liquid	Liquid	Liquid	Liquid
Engine speeds					
High idle - no load	rpm	3080+/-50	3080+/-50	2675+/-75	2675+/-75
Rated - full load	rpm	2900	2900	2500	2500
Low idle, rpm		1200+/-50	1200+/-50	1075+/-75	1075+/-75
Horsepower per SAE J1349					
Gross	hp (kW)	60 (45)@2900rpm	60 (45)@2900rpm	74 (55)@2500rpm	82 (61)@2500rpm
Net	hp (kW)	57 (42)@2900rpm	57 (42)@2900rpm	68 (51)@2500rpm	76 (57)@2500rpm
Peak torque	Nm	171@1800rpm	171@1800rpm	275@1400rpm	305@1400rpm
POWER TRAIN					
Drive pump mechanical					
Pump to engine ratio		1:1	1:1	1:1	1:1
Displacement	cc	35	35	46	46
Flow at rated engine rpm @100% eff.	Lpm	102	102	115	115
Charge pressure	bar	24.5	24.5	24.5	24.5
System relief	bar	345	345	345	345
Control: Direct mechanical		direct mechanical	direct mechanical	direct mechanical	mechanical servo
Drive pump electro hydraulic					
Pump to engine ratio		1:1	1:1	1:1	1:1
Displacement	cc	35	35	46	46
Flow	Lpm	102	102	115	115
Charge pressure	bar	25	25	25	25
System relief	bar	360	360	360	360
Control: Electro Hydraulic		yes	yes	yes	yes
Drive motors					
Max displacement	cc	325	325	470	470
Displacement opt high speed	cc	200	200	282	282
Speed @ high idle engine	rpm	313	313	244	244
Speed @ optional high speed	rpm	509	509	408	408
Torque @ max displ. and relief pressure	Nm	1784	1784	2694	2694
Travel speed					
Low range	km/h	11.9	12.1	11.6	11.6
High range (optional)	km/h	18.5	19	19.2	19.2
Final drive		single reduction chain drive			
Drive Chain					
Size		ASA #80	ASA #80	ASA #100	ASA #100
Axles					
Diameter	mm	50.8	50.8	61.94	61.94
Length	mm	384	384	398.7	398.7
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			

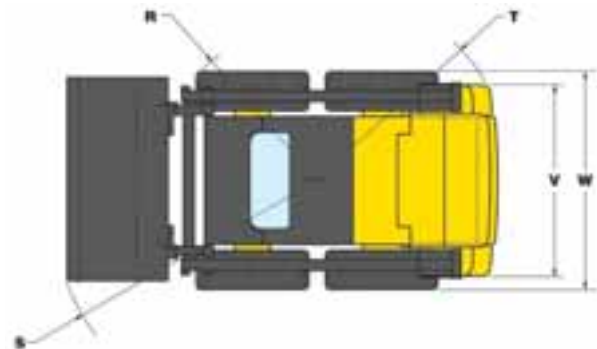
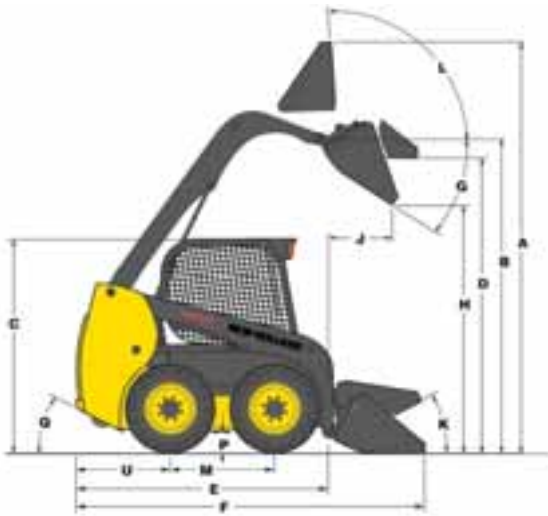
L218/L220/L223/L225

SPECIFICATIONS

		L218	L220	L223	L225
HYDRAULIC SYSTEM					
Pumps					
Type		Gear	Gear	Gear	Gear
Displacement standard aux.	cc	24.9	24.9	34.1	34.1
Displacement high flow aux.	cc	12.5	12.5	18.3	18.3
Pump flow	Lpm	72	72	85	85
Optional high flow	Lpm	108	108	131	131
Loader control valve					
Type		3 spool / open center / series			
Relief pressure	bar	207	207	207	207
Hidraulic filter		6 micron spin on	6 micron spin on	6 micron spin on	6 micron spin on
CYLINDERS					
Lift cylinders					
Bore diameter	mm	57	57	64	64
Rod diameter	mm	35	35	45	45
Stroke	mm	681	681	852	852
Closed length	mm	982	982	1192	1192
Bucket cylinders					
Bore diameter	mm	64	70	76	76
Rod diameter	mm	35	35	38	38
Stroke	mm	410	410	410	410
Closed length	mm	610	610	610	610
WEIGHTS					
Operating weight	kg	2660	2900	3350	3580
Shipping weight, w/bucket	kg	2520	2765	3200	3430
SERVICE CAPACITIES					
Fuel tank	l	75.5	75.5	96.5	96.5
Engine oil with filter	l	8.5	8.5	10	10
Hydraulic system					
Reservoir	l	16.2	16.2	22.75	22.75
Chain tanks (per side)	l	6.7	6.7	7.4	7.4
PERFORMANCE SPECS					
Rated operating load					
50% tip	kg	818	905	1020	1135
Tipping load	kg	1632	1814	2041	2268
Breakout forces					
Lift cylinder	kN	12.2	11.6	22.6	22.6
Bucket cylinder	kN	24.2	31.8	38.2	38.2
Cycle times					
Raise	sec.	3.0	3.0	3.9	3.9
Lower	sec.	2.4	2.4	2.5	2.5
Dump	sec.	2.2	2.6	2.7	2.7
Roll back	sec.	1.5	1.8	2.0	2.0

L213/L215

MACHINE WEIGHTS & DIMENSIONS (mm)



top view

		L213	L215
Overall operating height			
A - with foundry/excavating bucket short lip	mm	3591	3591
A - with low profile/standard lip bucket	mm	3732	3732
A - with low profile extended/long lip bucket	mm	3859	3859
Height to			
B - Bucket hinge pin	mm	2845	2845
C - Top of ROPS	mm	1919	1919
D - Bottom of level bucket, fully raised	mm	2682	2682
Overall length			
E - without attachment with coupler	mm	2435	2435
F - with foundry excavation bucket on ground	mm	3028	3028
F - with low profile bucket	mm	3175	3175
F - with low profile extended bucket	mm	3297	3297
Dump			
G - Dump angle	degrees	40	40
H - Dump height			
with foundry/excavating bucket short lip	mm	2246	2246
with low profile/standard lip bucket	mm	2154	2154
J - Dump reach (max height)	mm	469	469
Maximum attachment rollback			
K - Bucket on ground	degrees	26	26
L - Bucket at full height	degrees	95	95
Wheelbase and Clearance			
M - Wheelbase,	mm	941	941
P - Ground clearance (bottom of belly pan)	mm	178	178
Q - Angle of departure	degrees	22	22
Clearance circle			
R - without bucket	mm	1237	1237
S - with 152,4 cm foundry bucket in carry position	mm	1920	1920
S - with 152,4 cm low profile bucket on ground	mm	1994	1994
S - with 152,4 cm extended low profile on ground	mm	2112	2112
T - Clearance circle rear	mm	1433	1433
U - Rear axle to bumper	mm	858	858
V - Tread width	mm	1248 with 10" x 16.5" tyres	1248 with 10" x 16.5" tyres
W - Overall width	mm	1518	1518

L213/L215

SPECIFICATIONS

	L213	L215
ENGINE		
Manufacturer/model	ISM / N844	ISM / N844T
Type	Diesel 4 stroke, I.D.I.	Diesel 4 stroke, T, I.D.I.
Cylinder	4	4
Bore/stroke	84 x 90	84 x 90
Displacement	2.0	2.0
Fuel injection	indirect	indirect
Fuel	#2 diesel	#2 diesel
Fuel filter	in-line strainer	in-line strainer
Air intake	Naturally aspirated w/ internal EGR	Naturally aspirated w/ internal EGR
Cooling	Liquid	Liquid
Engine speeds		
High idle - no load	3140 +/- 50	3140 +/- 50
Rated - full load	2900	2900
Low idle	1080 +/- 50	1080 +/- 50
Horsepower per SAE J1349		
Gross	46 (34.3) @ 2900 rpm	52 (38.8) @ 2900 rpm
Net	43 (31.8) @ 2900 rpm	49 (36.3) @ 2900 rpm
Peak torque	130.5 @ 1750 rpm	148 @ 1750 rpm
POWER TRAIN		
Drive pump mechanical		
Pump to engine ratio	1.1	1.1
Displacement	35	35
Flow	102	102
Charge pressure	25	25
System relief	345	345
Control	Direct mechanical	Direct mechanical
Drive pump electro hydraulic		
Pump to engine ratio	1.1	1.1
Displacement	35	35
Flow	102	102
Charge pressure	25	25
System relief	360	360
Control	Electro Hydraulic	Electro Hydraulic
Drive motors		
Max displacement	325	325
Displacement opt high speed	NA	NA
Speed @ high idle engine	313	313
Speed @ optional high speed	NA	NA
Torque @ max displ. and relief pressure	1784	1784
Travel speed		
Low range	10.8	10.8
High range (optional)	NA	NA
Final drive	Single-reduction chain drive	Single-reduction chain drive
Drive Chain		
Size	ASA #80	ASA #80
Axles		
Diameter	50.8	50.8
Length	346	346
Parking brake		
Type	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

		L213	L215
HYDRAULIC SYSTEM			
Pumps			
Type		Gear	Gear
Displacement standard aux.	cc	20.4	20.4
Displacement high flow aux.	cc	N/A	N/A
Pump flow	Lpm	59	59
Optional high flow	Lpm	N/A	N/A
Loader control valve			
Type		3 Spool / open center / series	3 Spool / open center / series
Relief pressure	bar	207	207
Hydraulic filter		6 micron / spin on	6 micron / spin on
CYLINDERS			
Lift cylinders			
Bore diameter	mm	57	57
Rod diameter	mm	35	35
Stroke	mm	645	645
Closed length	mm	989	989
Bucket cylinders			
Bore diameter	mm	57	57
Rod diameter	mm	32	32
Stroke in	mm	370	370
Closed length	mm	594	594
WEIGHTS			
Operating weight	kg	2270	2400
Shipping weight	kg	2130	2270
SERVICE CAPACITIES			
Fuel tank	l	60.5	60.5
Engine oil with filter	l	7.5	7.5
Hydraulic system			
Reservoir	l	15.13	15.13
Chain tanks (per side)	l	6.3	6.3
PERFORMANCE SPECS			
Rated operating load			
50% tip	kg	590	680
Tipping load.	kg	1179	1361
Breakout forces			
Lift cylinder	kN	19	19
Bucket cylinder	kN	18.5	18.5
Cycle times			
Raise	sec.	3.4	3.4
Lower	sec.	2.1	2.1
Dump	sec.	1.9	1.9
Roll back	sec.	1.3	1.3

PARTS AND SERVICE

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The New Holland global parts network ensures fast, reliable, replacement parts for less downtime, increased productivity and, of course, profitable operation for its customers.



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