

PRENTICE

2180 • 2210 Knuckleboom Loaders



Built Better Than It Needs To Be



No matter what logging job you're on, Prentice has the loader to make your day productive, profitable and comfortable. Prentice loaders are built using advanced boom design technology, for the strength and reliability needed to meet the demands of high production slashing and loading. Advanced features such as smooth and responsive joystick controls, and quiet, comfortable cabs, contribute to making the name Prentice synonymous with quality.

- Welded high-strength steel booms
- Standard 27' boom reach
- Swing speeds up to 8 RPM
- Heavy-duty subframes
- Lock valves integrated into stabilizer circuit

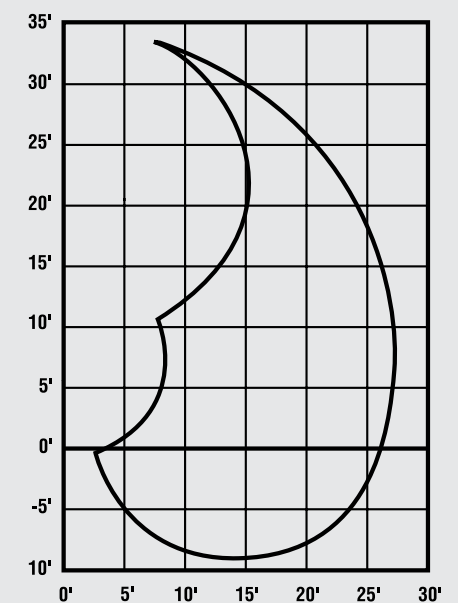
- Wide stabilizer leg spread
- Large pad size
- Factory installed hydraulic packages
 - Bar saw slasher
 - Circle saw slasher
 - OEM Carrier

Spacious operator cabs, featuring:

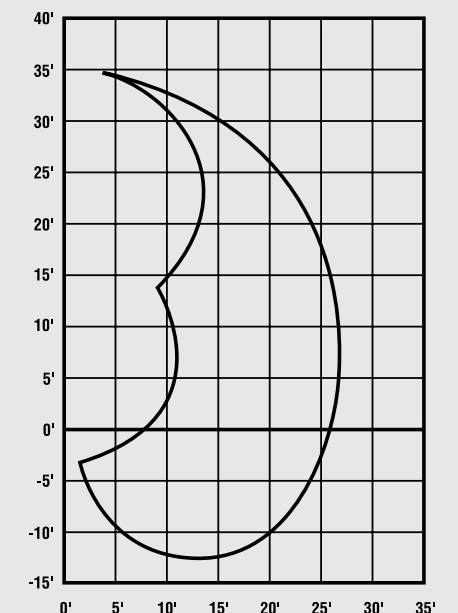
- Large tinted cab windows and LEXAN skylight
- Impact tested swing out front guard
- Large fully adjustable suspension seat with lumbar support and fold-up armrests

2180 · 2210 LIFT CAPACITIES

2180 Lift Capacity										
Lift Point Height	Lift Point Radius									
	10'	3m	15'	4.6m	20'	6.1m	25'	7.6m	Max.	Max.
	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.
30'/9.1m			4610	2091.1						
			4011	1819.4						100% Hyd
			4011	1819.4						Over End
25'/7.6m			9138	4145	5308	2407.7				100% Hyd
			7950	3606.1	4618	2094.7				Over End
			7950	3606.1	4618	2094.7				Over Side
20'/6.1m			9056	4107.8	8320	3773.9				100% Hyd
			7879	3573.9	7238	3283.1				Over End
			7879	3573.9	7238	3283.1				Over Side
15'/4.6m			10615	4815	9151	4150.9	5714	2591.9	1076	488.1
			9235	4189	7961	3611.1	4971	2254.8	936	424.6
			9235	4189	7961	3611.1	4971	2254.8	936	424.6
10'/3m	17869	8105.4	13989	6345.4	11322	5135.6	7657	3473.2	1023	464
	15546	7051.7	12170	5520.3	9850	4468	6662	3021.9	890	403.7
	15546	7051.7	12170	5520.3	8204*	3721.3	6662*	3021.9	890	403.7
5'/1.5m	23502	10660.5	15630*	7089.8	11869	5383.8	7500	3402	1021	463.1
	20447	9274.8	13598*	6168	10326	4683.9	6525	2959.7	888	402.8
	20447	9274.8	13191*	5983.4	7977*	3618.4	6525*	2959.7	888	402.8
0 0.0	18875	8561.7	15906*	7215	11646	5282.6	6549	2970.6		100% Hyd
	16421	7448.6	13838*	6276.9	10132	4595.9	5698	2584.6		Over End
	16421	7448.6	12792*	5802.4	7815*	3544.9	5698*	2584.6		Over Side
-5'/-1.5m	16660	7557	14074	6384	9861	4472.9				100% Hyd
	14494	6574.5	12244	5553.9	8579	3891.4				Over End
	14494	6574.5	12244	5553.9	7783*	3530.4				Over Side



2210 Lift Capacity										
Lift Point Height	Lift Point Radius									
	10'	3m	15'	4.6m	20'	6.1m	25'	7.6m	Max.	Max.
	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.
30'/9.1m			10085	4574.6						
			8774	3979.9						100% Hyd
			8774	3979.9						Over End
25'/7.6m			11483	5208.7	8978	4076.5				100% Hyd
			9990	4531.5	7811	3543.1				Over End
			9990	4531.5	7811	3543.1				Over Side
20'/6.1m			11567	5246.8	10166	4611.3				100% Hyd
			10063	4564.6	8844	4011.6				Over End
			10063	4564.6	8844	4011.6				Over Side
15'/4.6m			12507	5673.2	10455	4742.4	8718	3954.5	4079	1850.2
			10881	4935.6	9096	4125.9	7585	3440.5	3549	1609.8
			10881	4935.6	9096	4125.9	7088*	3215.1	3549	1609.8
10'/3m	13901	6305.5	12226	5545.7	8643	3920.5	3917	1776.5	3917	1776.5
	12094	5485.8	10637	4824.9	7519	3410.6	3408	1545.9		100% Hyd
	12094	5485.8	10103*	4582.7	7029*	3188.3	3408	1545.9		Over End
5'/1.5m	19224*	8720.0	14375	6520.5	8969	4068.3	3905	1771.3		100% Hyd
	16725*	7586.5	12506	5672.7	7803	3539.4	3397	1540.9		Over End
	16247*	7369.7	9054*	4106.9	6950*	3152.5	3397	1540.9		Over Side
0 0.0	9641	4373.2	18389*	8341.2	13364	6061.9	7833	3553		100% Hyd
	8388	3804.8	15998*	7256.7	11627	5274	6815	3091.3		Over End
	8388	3804.8	15843*	7186.4	9690*	4395.4	6815	3091.3		Over Side
-5'/-1.5m	14046	6371.3	14968	6789.5	10337	4688.8				100% Hyd
	12220	5543	13022	5906.8	8993	4079.2				Over End
	12220	5543	13022	5906.8	8993	4079.2				Over Side
-10'/-3m	10979	4980.1	8253	3743.6	2425	1100				100% Hyd
	9552	4332.8	7180	3256.8	2110	957.1				Over End
	9552	4332.8	7180	3256.8	2110	957.1				Over Side



NOTES:
 Do not attempt to lift or hold any load that is greater than the rated values over the end or side at their specified lift point and height. The weight of the grapple and all lifting accessories must be deducted from lift capacities shown.
 1. The over end capacities and over side capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity. Stability limited capacities are indicated with an asterisk (*).
 2. The lift point is located at the boom pivot pin.
 3. Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
 4. Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Caterpillar, Inc. prior to operating the machine.
 5. Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method—Knuckleboom Log Loaders and Certain Forestry Equipment".

2180 · 2210 SPECIFICATIONS

		2180	2210
Engines & Driveline			
Cummins	QSB 4.5, 110 HP (82 kw), Tier 3 Compliant	STD	NA
	QSB 15.5HP (11.5 kw), Tier 3 Compliant	NA	STD
Engine RPM	Full Load Governed	2100	2200
Electrical	12 V System		
	Circuit Breaker Protection	STD	STD
	Master Electrical Disconnect Switch	NA	STD
	2 Cab Mounted Work Lights	STD	STD
	2 Boom Lights	OPT	OPT
	Block Heater	NA	OPT
	Cold Weather Start Kit	NA	OPT
Pump Drive	Direct	STD	STD
	1 1/2" Manual Clutch	OPT	OPT
Operator's Cab			
38.5" X 56" (978 mm x 1423 mm) right side mounted w/ isolation pads, Tinted Safety Glass Windows, Lexan Skylight, Sun Visor, Fully adjustable Seat w/ Fold-up armrests, Operator protection Guard, Pressurized Cab w/ Heater, Integral Heat/AC Ductwork, Analog Gauges, Windshield Wiper/Washer, Horn, Defroster Fan, Lighter, Dome Light, Fire Extinguisher, Swing Open Door w/ Sliding Window, Sliding Cab Window		STD	STD
Pressurized Cab w/ Heat/Air Conditioning, Tachometer, AM/FM Cassette Radio		OPT	OPT
Hydraulic System			
3 in-line gear pumps		STD	STD
Flows	GPM @ 2200 RPM	35, 35, 18 (133, 133, 68 L/Min)	44, 33, 22 (167, 125, 83 L/Min)
	Pilot Pump	NA	STD
Pressure	System PSI / Swing PSI	2,500 / 2,600 (172 bar / 180 bar)	2,200 / 2,200 (152 bar / 152 bar)
Swing Motor	Radial Piston Motor	STD	STD
Swing Speed	RPM	7	8
Controls	Mechanical Levers	STD	NA
	Pilot Joysticks	N/A	STD
	Single Rocker Type Swing Pedal	STD	STD
	Mechanical Stabilizer Controls	STD	NA
	Electrical Stabilizer Controls	NA	STD
Filtration, Swivel & Serviceability	Single Element Return Filter, Steel Barrel Swivel w/ Durabar Core, Diagnostic nipples on pumps	STD	STD
Auxiliary Hydraulics	Bar Slasher/Hydraulics	OPT	OPT
	Carrier Hydraulics, Circle Saw Hydraulics	NA	OPT
Cylinders	Bore x Rod (in.)		
	Main (2)	5" x 3" (127 mm x 76 mm)	6" x 4" (152 mm x 102 mm)
	Stick (1)	6" x 3" (152 mm x 76 mm)	6" x 4" (152 mm x 102 mm)
	Live Heel	NA	6" x 4" (152 mm x 102 mm)
	Stabilizer(4)	5" x 2.5" (127 mm x 64 mm)	6" x 4" (152 mm x 102 mm)
Structural			
Counterweight	Lbs. Cast Steel	NA	1,100 (498 kg)
Tailswing	with/without counterweight	99" (2.52 m)	102" (2.6 m)
Booms	27' (8.2 m) Knuckleboom	STD	STD
	29' (8.8 m) Knuckleboom	OPT	NA
	30' (9.1 m) Knuckleboom	NA	OPT
	30' (9.1 m) Tuckaway Live Heel Boom	NA	OPT
Heels	Single "V" Heel, Double "W" Heel	OPT	OPT
Grapple Mounting Knuckle	9" (228 mm) Length	STD	STD
Swing Bearing	Diameter	38" OD (965 mm)	43" OD (1092 mm)
	Gearing	Internal	External
Lower Frame	Bolt-on Skid Resistant Fenders	STD	STD
	Wide Tread Ladder	STD	NA
	Two Wide Tread Ladders	NA	STD
Turntable Mounting	Centered Turntable	NA	STD
	23" (584 mm) Rear Offset	STD	OPT
Stabilizers (4)	Spread at Grade / Spread at Max Down Reach	172" / 160" (4369 mm / 4064 mm)	180" / 164" (4572 mm / 4166 mm)
	Reach Below Grade	9" (228 mm)	14" (356 mm)
Pad Size		18" x 25" (457 mm x 635 mm)	22" x 26" (559 mm x 660 mm)
Installation Kit	Standard Heavy Duty Kit	STD	STD
Capacities	2180	2210	Unit Weight
Fuel - Gal.	79 (299 liter)	71 (268 liter)	Wet, w/ standard boom, less options, carrier and grapple - Lbs.
Hydraulic - Gal.	71 (268 liter)	35 (133 liter)	15,450 (7008 kg)
			19,099 (8663 kg)



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We reserve the right to change specifications and to improve our products without notice or obligation.

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