



2410 • 2414 Knuckleboom Loaders



Built Better Than It Needs To Be



System Versatility

Various factory installed hydraulic packages are available including bar saw slasher, delimber, carrier, and grapple saw, as well as the popular TMS II package.

High Visibility

Excellent visibility of the work area is provided through large tinted cab windows. Overhead visibility is maximized through the large, tinted Lexan skylight. Operator protection is afforded by the front guard. This swingout guard is designed for quick and simple access for front window cleaning.

Superior Operator Station

Prentice loader cabs are designed with operator comfort in mind. The spacious cabs feature a large, fully adjustable suspension seat with lumbar support. Fold-up armrests are fully adjustable to allow adjustment of the joystick controls to match the operator.

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 delimiting and loading. Advanced features such as smooth and responsive joystick controls, and quiet, comfortable cabs, contribute to making the name PRENTICE synonymous with quality.



Prentice Loader Booms

Prentice loader booms are built tough with welded high-strength steel. Delimiting booms feature heavy steel castings at the base end, stick end, and cylinder junctions with the main boom.

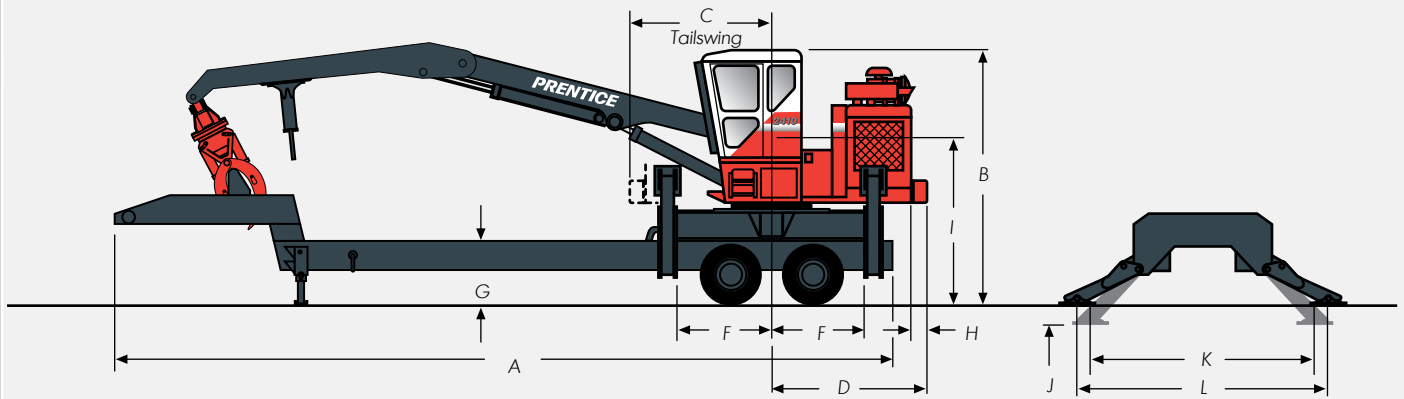
High Performance

Prentice loaders feature swing torque ratings up to nearly 80,000 ft-lbs. Combined with swing speeds up to 9 RPM, Prentice loaders provide excellent performance in all applications from shortwood loading, to drag loading, and pull-through delimiting.

Engineered Stability

Prentice heavy-duty subframes are engineered for high reliability. Lock valves integrated into the stabilizer circuit reduce cylinder movement and increase stability. Wide stabilizer leg spread, large pad size and deep below grade reach provide a stable base.

2410 & 2414 DIMENSIONS



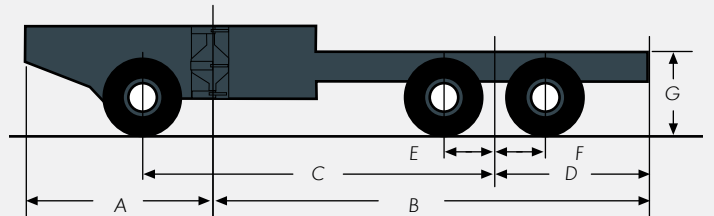
Machine Dimensions	2410		2414	
A	1219.20 cm	480.00"	1219.20 cm	480.00"
B	398.78 cm	157.00"	398.78 cm	157.00"
C	248.92 cm	98.00"	248.92 cm	98.00"
D	238.13 cm	93.75"	238.13 cm	93.75"
E	152.40 cm	60.00"	152.40 cm	60.00"
F	152.40 cm	60.00"	152.40 cm	60.00"
G	99.06 cm	39.00"	99.06 cm	39.00"
H	27.31 cm	10.75"	27.31 cm	10.75"
I	269.24 cm	106.00"	269.24 cm	106.00"
J	39.37 cm	15.50"	39.37 cm	15.50"
K	454.66 cm	179.00"	454.66 cm	179.00"
L	495.30 cm	195.00"	495.30 cm	195.00"

Dimensions of the "SPA" Self-Propelled Articulated Carrier

Shown (not to scale):

PRENTICE "SPA" Self-Propelled Articulated Carrier with 9.00x20 tires. Carrier is designed for PRENTICE 2410 & 2414 loaders.

A	269.24 cm	106.00"
B	477.52 cm	188.00"
C	411.48 cm	162.00"
D	162.56 cm	64.00"
E & F	68.58 cm	27.00"
G	101.60 cm	40.00"



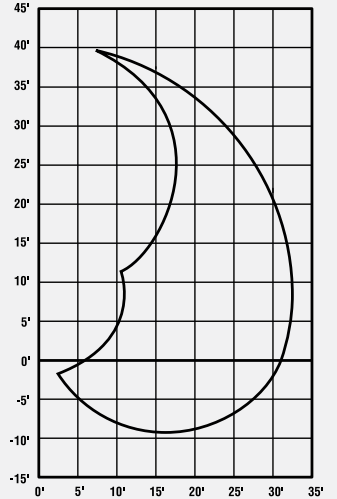
Specifications of the "SPA" Self-Propelled Articulated Carrier

Articulating Cylinders	(2); 8.89 cm (3 1/2") Bore, 5.08 cm (2") rod
Speed	Forward and Reverse, Low Range 5.23 km/h (3 1/4 mph), High Range 10.86 km/h (6 3/4 mph)
Frame	Welded 30.48 cm (12") I-beam, boxed in critical areas. Loader can be removed from carrier to facilitate service.
Drive Axle:	22,680 kg (50,000 lbs.) Rated live tandem (reconditioned)
Front Axle:	10,433 kg (23,000 lbs.) Rated Timken (reconditioned hubs)
Tire Options	9.00x20, 10 ply, 10.00x20, 10 ply, 11.00x20, 10 ply
Wheels	Rear-dual 10 hole Budd discs with 50.8 cm (20") rims Front-10 hole reversed Budd discs with 50.8 cm (20") rims. Rims will accept tire sizes up to 11.00x20
Parking Brakes	Spring-actuated brakes lock all four drive wheels; hydraulically released.
Service Brake	Hydraulically actuated brakes for all four drive wheels.
Articulating Pivot	(2) Pins, 7.62 cm (3") diameter special alloy steel
Power	Five-piston radial two-speed drive motor with shift control located in loader cab.
Steering Lockout	Mechanical lockout link provided to freeze the articulation joint during transit or maintenance.
Steering	Special "float" valve in loader swing control permits articulation while boom and grapple rest on front section of carrier frame. Lockout ensures that "float" valve may ONLY be activated while carrier is in "DRIVE" mode.
Gradeability	17.6%
Weight	Approximately 8,391 kg (18,500 lbs.) Less tires
Turning Radius	9.45 meters (31 feet)
Color	Black
Wheelbase	411.48 cm (162")

2410 & 2414 LIFT CAPACITY

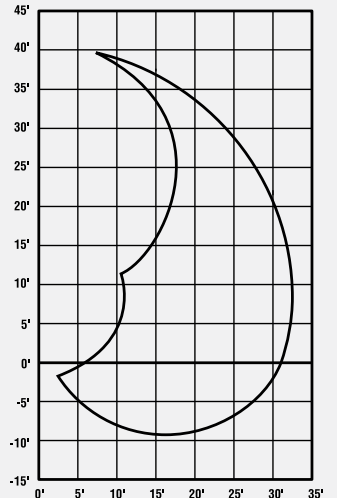
Lift Capacity Chart PRENTICE 2410 · Boom Type: Knuckleboom · Boom length: 32' 6"

		Radius															
		10'/3m		15'/4.6m		20'/6.1m		25'/7.6m		30'/9.1m		Max Reach					
		kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.				
Elevation	35'/10.6m			5286.7	11655											100% Hyd Over End Over Side	
				4599.5	10140												
				4599.5	10140												
	30'/9.1m					4972.9	10963									100% Hyd Over End Over Side	
						4326.4	9538										
						4326.4	9538										
	25'/7.6m					5758.4	12695	4410.8	9724							100% Hyd Over End Over Side	
						5010	11045	3937.4	8460								
						5010	11045	3937.4	8460								
	20'/6.1m					6363.5	14029	5428.7	11968	2767.9	6102					100% Hyd Over End Over Side	
					5536.2	12205	4722.9	10412	2408.2	5309							
					5536.2	12205	4722.9	10412	2408.2	5309							
15'/4.6m			7299.3	16092	6877.5	15162	6073.2	13389	3974	8761	2324.2	5124			100% Hyd Over End Over Side		
			6350.4	14000	5983.4	13191	5283.5	11648	3457.3	7622	2022.1	4458					
			6350.4	14000	5983.4	13191	5283.5	11648	3457.3	7622	2022.1	4458					
10'/3m			9814.5	21637	8452.4	18634	6934.2	15287	4668.4	10292	2366	5216			100% Hyd Over End Over Side		
			8538.6	18824	7353.8	16212	6032.9	13300	4061.5	8954	2058.4	4538					
			8538.6	18824	7353.8	16212	6032.9	13300	4061.5	8954	2058.4	4538					
5'/1.5m	18436.1	40644	12083.4	26639	9112.8	20090	7295.7	16084	4947.4	10907	2480.3	5468			100% Hyd Over End Over Side		
	16039.3	35360	10512.6	23176	7928	17478	6347.2	13993	4304.2	9489	2157.8	4757					
	16039.3	35360	10512.6	23176	7928	17478	6347.2	13993	4304.2	9489	2157.8	4757					
0 0.0	10192.8	22471	12622.8	27828	9241.6	20374	7086.8	15644	4361.8	9616					100% Hyd Over End Over Side		
	8867.9	19550	10981.6	24210	8040.1	17725	6173.5	13610	3794.8	8366							
	8867.9	19550	10981.6	24210	8040.1	17725	6173.5	13610	3794.8	8366							
-5'/-1.5m	9419.5	20766	11628.5	25636	8447.8	18624	6120.4	13493							100% Hyd Over End Over Side		
	8194.7	18066	10116.6	22303	7349.7	16203	5324.8	11739									
	8194.7	18066	10116.6	22303	7349.7	16203	5324.8	11739									



Lift Capacity Chart PRENTICE 2414 · Boom Type: Knuckleboom · Boom length: 32' 6"

		Radius															
		10'/3m		15'/4.6m		20'/6.1m		25'/7.6m		30'/9.1m		Max Reach					
		kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.				
Elevation	35'/10.6m			6514.1	14361											100% Hyd Over End Over Side	
				5667.3	12494												
				5667.3	12494												
	30'/9.1m					6142.2	13541									100% Hyd Over End Over Side	
						5343.8	11781										
						5343.8	11781										
	25'/7.6m					6077.8	13399	5470.4	12060							100% Hyd Over End Over Side	
						5287.6	11657	4759.2	10492								
						5287.6	11657	4759.2	10492								
	20'/6.1m					6246.1	13770	5763	12705	3497.7	7711					100% Hyd Over End Over Side	
					5434.1	11980	5013.6	11053	3043.2	6709							
					5434.1	11980	5013.6	11053	3043.2	6709							
15'/4.6m			7689.4	16952	7085.2	15620	6041	13318	4944	10914	2967	6541			100% Hyd Over End Over Side		
			6689.7	14748	6164	13589	5255.9	11587	4306.9	9495	2581.4	5691					
			6689.7	14748	6164	13589	5255.9	11587	4306.9	9495	2581.4	5691					
10'/3m			10201	22489	9232.1	20353	7230.4	15940	5247.7	11569	3019.2	6656			100% Hyd Over End Over Side		
			8874.7	19565	8031.9	17707	6290.5	13868	4565.5	10065	2626.8	5791					
			8874.7	19565	8031.9	17707	6290.5	13868	4565.5	10065	2626.8	5791					
5'/1.5m	21356.8	47083	14054.3	30984	10646.4	23471	8611.6	18885	5083.1	11221	3164.3	6976			100% Hyd Over End Over Side		
	18580.4	40962	12227.2	26956	9262.5	20420	7452.6	16430	4428	9762	2752.9	6069					
	18580.4	40962	12227.2	26956	9262.5	20420	7452.6	16430	4428	9762	2752.9	6069					
0 0.0	10070.8	22202	14724.3	32461	10824.7	23864	8356.2	18422	4487	9892					100% Hyd Over End Over Side		
	8761.7	19316	12810.1	28241	9417.6	20762	7269.8	16027	3903.7	8606							
	8761.7	19316	12810.1	28241	9417.6	20762	7269.8	16027	3903.7	8606							
-5'/-1.5m	9314.2	20534	13622.5	30032	9940.6	21915	7256.7	15998							100% Hyd Over End Over Side		
	8103.6	17865	11851.7	26128	8648.3	19066	6313.2	13918									
	8103.6	17865	11851.7	26128	8648.3	19066	6313.2	13918									



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.

- The over end capacities and over side rated capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity.
--Stability limited capacities are indicated with an asterisk (*).
- The lift point is located at the boom pivot pin.
- Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
- Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Blount, Inc. prior to operating the machine.
- Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method--Knuckleboom Log Loaders and Certain Forestry Equipment".

2410 & 2414 SPECIFICATIONS

Engines & Driveline		2410	2414
Cummins	QSB 173HP TIER 3	STD	STD
Engine RPM	Full Load Governed	2200	2200
Electrical	12 V System, Circuit Breaker Protection, Master Electrical Disconnect Switch Electronic Monitoring System, 2 Cab Mounted Work Lights Boom Lights Block Heater Cold Weather Start Kit	STD OPT OPT OPT	STD OPT OPT OPT
Pump Drive	Direct	STD	STD
Operator's Cab			
94 cm (37") x 127 cm (50") left side mounted with isolation pads, Tinted Safety Glass Windows, Lexan Skylight, Sun Visor, Fully adjustable Seat with Fold-up armrests, Operator protection Guard, Pressurized Cab with Heat/Air Conditioning, Integral Heat/AC Ductwork Windshield Wiper/Washer, Horn, Defroster Fan, 12V Power Point, Dome Light, Fire Extinguisher Swing Open Door with Sliding Window, Sliding Cab Window		STD	STD
Hydraulic System			
3 in-line gear pumps		STD	
Two Variable Displacement Axial Piston Pumps			STD
Flows	LPM (GPM) @ 2200 RPM	216 (57), 155 (41), 125 (33)	394 (104)
Pilot Pump (Standard with pilot joysticks)		STD	STD
Pressure	System kPa (PSI)	17,236 (2,500)	24,131 (3,500)
	Swing kPa (PSI)	17,236 (2,500)	22,063 (3,200)
Swing Motor	Axial Piston Motors	STD	STD
Swing Speed	RPM	7	9
Control	Pilot Joysticks	STD	STD
	Dual Swing Pedals		STD
	Single Rocker Type Swing Pedal	STD	
Filtration	Electrical Stabilizer Controls	STD	STD
	Two Single Element Return Filters	STD	STD
	Case Drain Filters		STD
	Saw Return Filters		STD
Swivel	Steel Barrel with Durabar Core	STD	STD
Serviceability	Diagnostic nipples on pumps, Hand Hydraulic Oil Fill Pumps	STD	STD
Auxiliary Hydraulics	Bar Slasher/Hydraulics, Delimber Hydraulics	OPT	OPT
	Carrier Hydraulics	OPT	OPT
	Circle Saw Hydraulics		OPT
	Bar Slasher/Delimiter/Carrier Hydraulics	OPT	OPT
Cylinders, Bore x Rod (in.)	Main (2)	15.24 cm x 10.16 cm (6"x4")	12.7 cm x 7.62 cm (5"x3")
	Stick (1)	17.78 cm x 10.16 cm (7"x4")	15.24 cm x 10.16 cm (6"x4")
	Live Heel	15.24 cm x 10.16 cm (6"x4")	12.7 cm x 7.62 cm (5"x3")
	Stabilizer(4)	15.24 cm x 10.16 cm (6"x4")	15.24 cm x 10.16 cm (6"x4")
Structural			
Upper Frame	48.26 cm (19") Fixed Mount Cab Riser (3.7 m / 12' Eye Level)	STD	STD
	91.44 cm (36") Hydraulic Tilt Cab Riser (4.12 m / 13'5" Eye Level)	OPT	OPT
	139.7 cm (55") Fix Mount Cab Riser (4.57 m / 15' Eye Level)	OPT	OPT
Counterweight	kg (Lbs.) Cast Iron	1,392.5 (3,070)	1,392.5 (3,070)
Booms	9.9 m (32'6") Knuckleboom	STD	STD
	10.97 m (36') Knuckleboom, 10.21 m (33'6") Live Heel Boom	OPT	OPT
Heels	Single "V" Heel, Double "W" Heel	OPT	OPT
Grapple Mounting Knuckle	22.86 cm (9") Length	STD	STD
	30.48 cm (12") Length (for use with live heel booms)	OPT	OPT
Swing Bearing	Diameter	137 cm (54") OD	137 cm (54") OD
	Gearing	External	External
Lower Frame	Bolt-on Skid Resistant Fenders, Two Wide Tread Ladders	STD	STD
Stabilizers	Pad Size	55.88 cm x 66.04 cm (22"x26")	55.88 cm x 66.04 cm (22"x26")
Installation Kit	Heavy-Duty Installation Kit	STD	STD
Stationary Electric Mount		OPT	
Capacities	Fuel Liters (Gallons)	336.9 (89)	336.9 (89)
	Hydraulic Liters (Gallons)	246 (65)	246 (65)
Unit Weight	Wet, with standard boom, less options, carrier and grapple - kg (Lbs.)	15,422 (34,000)	15,422 (34,000)



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

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