

2384 B-Series Knuckleboom Loader



Built Better Than It Needs To Be



The new Prentice 2384 B-Series Knuckleboom Loader combines high production and low fuel use. The enhanced engine and hydraulic power system, a choice of operating modes and an automatic idle system work together to give today's logger the best of both worlds – high production and low fuel consumption.

Improved Fuel Economy & Performance

A choice of 3 work modes is available at the flip of a switch: Power Mode for unmatched productivity in the most demanding applications; Run Mode for top fuel efficiency in lighter applications; and new Intermediate Mode for added flexibility. A new Automatic Idle Down feature, as well as enhanced engine and hydraulic systems, add even greater fuel efficiency in all modes. A 100-gallon removable fuel tank allows you to work up to 2-1/2 days without refueling when operating in Run Mode.

Solid Structure

The 32 ft. purpose-built delimbing boom features steel castings at the base end, mid-boom and main-stick end for supreme reliability and longevity. The sub-frame design is simple and clean, but engineered for long life providing a rock solid base for optimum stability.

Improved Operators Module

Upgrades to the line of sight control panel allows operators to call up a diagnostic screen with data on fuel hydraulic oil level, engine and hydraulic oil temperature and other machine vital signs. A new SAE J1939 diagnostic connection has been added for fast troubleshooting by trained mechanics.

The new B-Series loader includes a stronger and quieter operator cab module with a larger heating and air conditioning system. Other improvements to the cab include improved air flow venting to provide heat and cooling where needed most. A tachometer cup holder and coat hook come standard and XM radio is optional.

Powerful System

The custom-engineered, industry first, excavator-type hydraulic system forms the heart of the 2384 B-Series. The system is designed for fast cycle times, smooth operation and maximum reliability in delimbing and loading operations. Swing torque of 47,700 ft. lbs. and swing speed of 11 RPM increases loading and delimbing efficiency.

Lift Capacity Chart per SAE J2417 · Boom Type: Knuckleboom w/o Heel · Boom length: 32'

Do not attempt to lift or hold any load that is greater than these rated values at their specified lift point and height. The weight of the grapple and all lifting accessories must be deducted from the lift capacities shown.

Lift Point	Lift Point Radius													
Height	10'	3m	15'	4.6m	20'	6.1m	25'	7.6m	30'	9.1m	32'	9.8m		
	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.		
35′/10.6m													100% Hyc	
													Over End	
													Over Side	
30′/9.1m					11902	5398.7							100% Hyc	
					10355	4696.9							Over End	
					10355	4696.9							Over Side	
25'/7.6m					12414	5630.9	10433	4732.4					100% Hyc	
					10800	4898.8	9077	4117.3					Over End	
					10800	4898.8	9077	4117.3					Over Side	
20′/6.1m			12538	5687.1	12679	5751.1	11317	5133.3					100% Hyc	
			10908	4947.8	11031	5003.6	9846	4466.1					Over End	
			10908	4947.8	11031	5003.6	9846	4466.1					Over Side	
15′/4.6m			16017	7265.2	14539	6594.8	12333	5594.2	9221	4182.6	5877	2665.8	100% Hyc	
			13935	6320.8	12649	5737.5	10730	4867.1	8022	3638.7	5113	2319.2	Over End	
			13935	6320.8	12649	5737.5	10730	4867.1	8007*	3631.9	5113	2319.2	Over Side	
10'/3m			20075	9105.9	15864	7195.8	13109	5946.1	9822	4455.2	5933	2691.2	100% Hyc	
			17465	7921.9	13802	6260.5	11405	5173.6	8522	3875.9	5162	2341.4	Over End	
			17465	7921.9	13802	6260.5	10851*	5173.6	7897	3582.2	5162	2341.4	Over Side	
5′/1.5m			22300	10155.1	16737	7591.8	13262	6015.5	9377	4253.4	6168	2797.8	100% Hyc	
			19401	8800.2	14561	6604.8	11538	5233.5	8158	3700.5	5366	2433.9	Over End	
			19401	8800.2	14561	6604.8	10530*	4776.4	7775*	3526.7	5366	2433.9	Over Side	
0 0.0	18187	8249.5	22682	10288.4	16653	7553.7	12695	5758.4	8170	3705.9			100% Hyc	
	15823	7177.2	19733	8950.8	14488	6571.7	11045	5009.9	7108	3224.2			Over End	
	15823	7177.2	19733	8950.8	14488	6571.7	10290*	4667.5	7108	3224.2			Over Side	
-5'/-1.5m	18116	8217.3	20463	9281.9	14953	6782.6	10737	4870.2					100% Hyc	
	15761	7149.1	17803	8075.4	13009	5900.8	9341	4237					Over End	
	15761	7149.1	17803	8075.4	13009	5900.8	9341	4237					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[®] Forest Products prior to operating the machine.
- Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method--Knuckleboom Log Loaders and Certain Forestry Equipment".





Cummins QSB 6.7 Tier 3, 160hp (@ 1800 RPM	STE				
	© 2200 RPM Standard for circle saw slasher applications only	STE				
lectrical: 12 V System		STE				
Circuit breaker protection						
		STE STE				
Master electrical disconnect switch 2 Cab mounted work lights ¹ , 2 Boom lights ²						
ump drive: direct		STE				
perator's Cab		SIL				
8.5" X 56" right side mounted w	ith isolation pade	STE				
		STE				
Swing out operator protection guard						
Tinted safety glass windows, Lexan skylight Adjustable sun visor, windshield wiper/washer, horn, defroster fan, dome light, fire extinguisher						
		STE				
ully adjustable seat with fold-up		STE				
	ditioning system with integral heat/AC ductwork with adjustable louvres	STE				
	oil pressure, volts, water temperature/SAEJ1939 service diagnostic port	STE				
ow hydraulic oil level and hydra	ulic filter warning system	STE				
achometer		STE STE				
12V power point, cigarette lighter, wiring for 12V CB radio						
Swing open door, right side sliding cab window						
M Radio Ready/CD Player		OP				
lydraulic System						
umps:	Two variable displacement axial piston pumps with horsepower management control	STE				
lows:	110 GPM	STE				
alves:	Open Center/Negicon control	STE				
ressure:	3500 PSI	STE				
wing motor:	Piston motor/planetary gear box with integral swing brake	STE				
wing speed:	11 RPM	STE				
Controls:	Pilot joystick toggle switch controls for slasher/delimber hydraulics	STE				
.oritrois.	Manual bar-up					
		STE				
	Single rocker type pilot swing pedal with automatic swing brake release	STE				
	Electrical stabilizer controls	STE				
iltration:	Single element in-tank return filter	STE				
	Case drain/pilot return filter	STE				
	Pilot supply filter	STE				
	Saw return filter	STE				
wivel:	Steel barrel with durabar core	STE				
erviceability:	Diagnostic service points on pumps	STE				
Auxiliary Hydraulics:	Bar slasher/delimber hydraulics					
	75 GPM to ground saw, 45 GPM to topping saw	STE				
	Grapple saw hydraulics	OP				
Cylinders:	Main (2): 5" x 3" x 52.38"	STE				
tick (1):	6" x 4" x 46"	STE				
tabilizer	(4): 6.5" x 4" x 22.12"	STE				
tructural		0.2				
Jpper frame:	Stress relieved upper frame with cross plate headside reinforcement	STE				
Counterweight:	1,400 lbs.	STE				
ailswing:	99.5"	STE				
ooms:	32' knuckleboom	STE				
leels:		OP				
16615.	Single "V" heel					
	Double "V V" heel	OP				
New pala an acception of Local day	10" heel extension	OP				
Grapple mounting knuckle:	9" length	STL				
	12" length	OP				
wing bearing:	51" outside diameter, external gear	STL				
ower frame:	Fabricated heavy duty, extended length center mount subframe	STE				
	Wide stance stabilizer legs, cylinder mounted lock valves	STE				
	Flat top subframe deck with bolt-on skid resistant fenders	STE				
	Dual bolt-on wide tread ladder	STE				
urntable mounting:						
tabilizers (4):	186.4" Spread at grade					
	167" Spread at max down reach	STE				
	16" Reach below grade	STE				
	22" x 28" x .75" Pad size	STE				
apacities	Unit Weight	SIL				
Jel:	100 Gallons					



www.prenticeforestry.com

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