



2280 Knuckleboom Loader



Built Better Than It Needs To Be



The Prentice 2280 loader is a robust, high-performance loader. With its massive booms and heavy-duty subframe and upper structure, the 2280 is ideal for delimbing applications. The new subframe "Flow on Demand" hydraulic system provides flow for stabilizers, saw and delimber functions only when needed, making it an efficient, economical system.

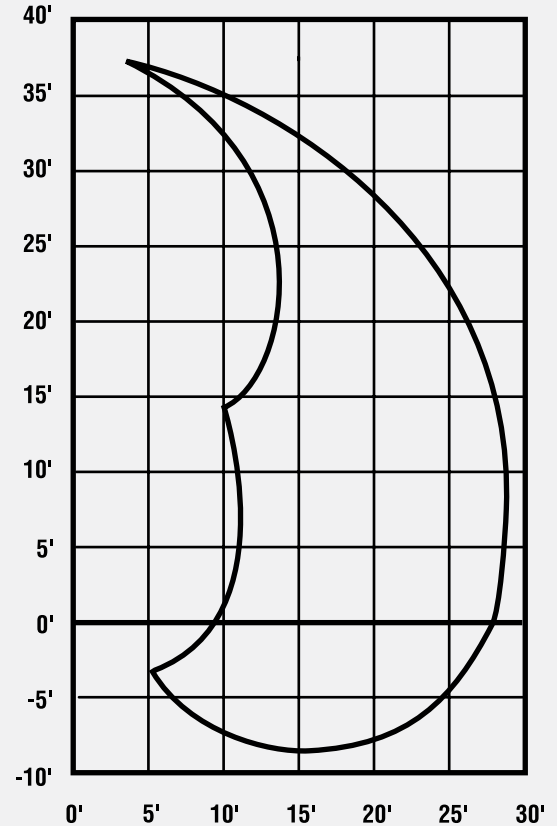
- Patent-pending "Flow On Demand" subframe hydraulic system
- Three in-line gear pumps can provide up to 126 GPM
- Low profile engine shroud maximizes visibility. Air filter and muffler are located under shroud for better protection. Exhaust vents down and away to reduce noise.
- Spacious 38.5" x 56" cab has large windows and "knee-bend" suspension seat with lumbar support and fold up armrests.
- Booms designed to handle delimbing. Main boom features robust steel castings at base and tip ends.
- 4" Boom Pins provide sturdy pivot points for the standard 29' boom
- Swing speed of 8 RPM with over 35,000 ft-lb. swing torque
- Convenient subframe bulkhead hookups are standard on all Prentice loaders. Hookups match the industry-leading CTR Slashers.
- Unique heavy-duty subframe design evenly distributes loading stresses

2280 LIFT CAPACITY

Lift Capacity Chart per SAE J2417 · Boom Type: Knuckleboom w/o Heel · Boom length: 29'

Do not attempt to lift or hold any load that is greater than these rated values at their specified lift point and height.

Lift Point Height	Lift Point Radius				Max Reach	
	10'	15'	20'	25'		
30'		12,328				100% Hyd
		10,725				Over End
		10,725				Over Side
25'		12,906	11,324			100% Hyd
		11,228	9,852			Over End
		11,228	9,852			Over Side
20'		13,000	12,085	9,170		100% Hyd
		11,310	10,514	7,978		Over End
		11,310	10,514	7,978		Over Side
15'		14,076	12,438	10,253	5,246	100% Hyd
		12,246	10,821	8,920	4,564	Over End
		12,246	10,821	8,920	4,564	Over Side
10'		16,661	14,423	11,183	5,168	100% Hyd
		14,495	12,548	9,729	4,496	Over End
		14,495	12,548	9,729	4,496	Over Side
5'		19,528	14,491	10,943	5,194	100% Hyd
		16,989	12,607	9,520	4,519	Over End
		16,989	12,607	9,520	4,519	Over Side
0'	15,266	18,575	13,451	9,391		100% Hyd
	13,281	16,160	11,702	8,170		Over End
	13,281	16,160	11,702	8,170		Over Side
-5'	17,593	15,007	10,543			100% Hyd
	15,306	13,056	9,172			Over End
	15,306	13,056	9,172			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 to grapple pin point.
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".

2280 SPECIFICATIONS

Engines & Driveline

Cummins QSB 6.7 – Tier 3, 160hp	STD
Engine RPM, governed/high idle, 2200	STD
Electrical: 12 V system	STD
Circuit breaker protection	STD
Master electrical disconnect switch	STD
2 Cab mounted work lights ¹ , 2 Boom lights ²	STD ¹ OPT ²
Pump drive: direct	STD

Operator's Cab

38.5" X 56" right side mounted with isolation pads	STD
Tinted safety glass windows with Lexan skylight	STD
Sun visor, analog gauges, windshield wiper/washer, horn, defroster fan, lighter, dome light, fire extinguisher	STD
Fully adjustable seat with fold-up armrests	STD
Operator protection guard	STD
Pressurized cab with 42,000 BTU heater with integral heat/AC ductwork with filtered fresh air intake	STD
Pressurized cab with heat/air conditioning with filtered fresh air intake	OPT
Tachometer	OPT
Swing open door with sliding window	STD
Sliding cab window	STD
AM/FM cassette radio	OPT

Hydraulic System

Pumps:	3 in-line gear pumps 51, 42, 33, GPM @ high idle	STD
	Pilot pump 4 GPM	STD
Pressure:	2,750 PSI	STD
Swing motor:	Radial piston motor	STD
Swing speed:	8 RPM	STD
Swing torque:	35,020 ft-lbs @ 100% efficiency	STD
Controls:	Pilot joysticks	STD
	Single rocker type pilot swing pedal	STD
	Electrical stabilizer controls	STD
Filtration:	Single element return filter	STD
	Case drain/pilot return filter	STD
Swivel:	Steel barrel with Durabar core	STD
Serviceability:	Diagnostic nipples on pumps	STD
	Hand hydraulic oil fill pump	STD
Auxiliary hydraulics:	Bar slasher/delimiter hydraulics	OPT
Cylinders:	Main (2): 5" x 3" x 49.25"	STD
Stick (1):	6" x 4" x 44"	STD
Stabilizer (4):	6" x 4" x 25.5"	STD

Structural

Upper frame:	18" Hydraulic tilt cab riser	OPT
Counterweight:	3300 lbs. cast steel	STD
Tailswing:	98"	STD
Booms:	29" knuckleboom	STD
Heels:	Single "V" heel	OPT
	Double "V V" heel	OPT
Grapple mounting knuckle:	9" length	STD
	12" length	OPT
Swing bearing:	43" OD diameter external tooth design	STD
Lower frame:	Bolt-on skid resistant fenders	STD
	Two wide tread bolt-on ladders	STD
Turntable mounting:	Centered turntable	STD
Stabilizers (4):	176" Spread at grade	STD
	154" Spread at max down reach	STD
	14" Reach below grade	STD
	23" x 23" Pad size	STD

Capacities

Fuel:	100 Gallons
Hydraulic:	78 Gallons

Unit Weight

27,900 (less options, carrier and grapple)

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



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