

PRENTICE

2124 Knuckleboom Loaders



Built Better Than It Needs To Be

The new Prentice 2124 has a light-weight, yet strong A-frame design based on a clean, simple pedestal fabricated from high strength steel. The smooth reliable hydraulic system, superior lift capacity and excellent controllability make it the ideal self-loader for the pulpwood and short log markets.



PLATFORM

Operator's platform features large adjustable operator's seat with padded armrests. Joystick control valves designed to provide smooth and consistent loader control. Access ladders and hand grabs are positioned for maintaining "three point" contact. Kawasaki swing system provides quick, smooth and controlled response to joystick commands.

ELECTRICAL

An 8-circuit electrical collector standard for providing electrical power and setting stabilizers. Work light packages for stick boom and operator's platform are optional. Optional 25' Teleboom features thumb-switch proportional control.

STRUCTURAL

A-Frame pedestal is formed of high strength steel to maximize strength and minimize weight



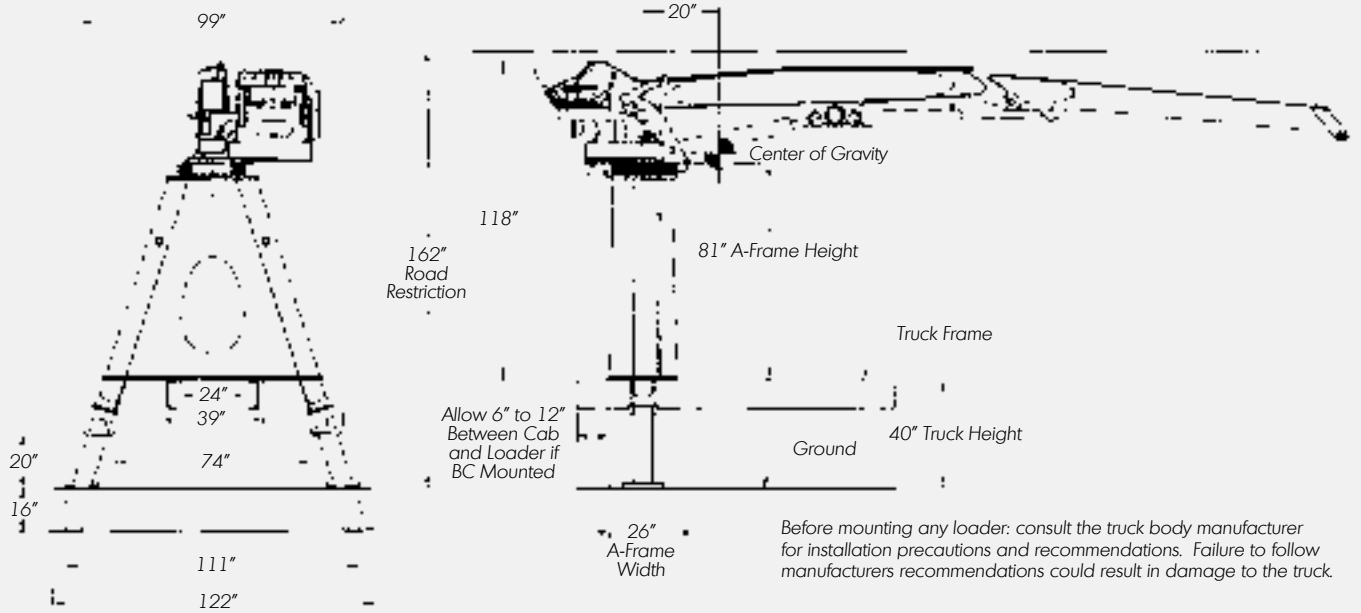
HYDRAULIC

The 3200 PSI hydraulic system maximizes lift capacity and improves controllability of the loader during multi-function operations. Redesigned continuous rotation assembly improves hose routings and ease of maintenance. A 5-circuit hydraulic swivel is standard.

BOOM STRUCTURE

Castings at main boom base, midpoint and stick end minimize weight and maximize strength.

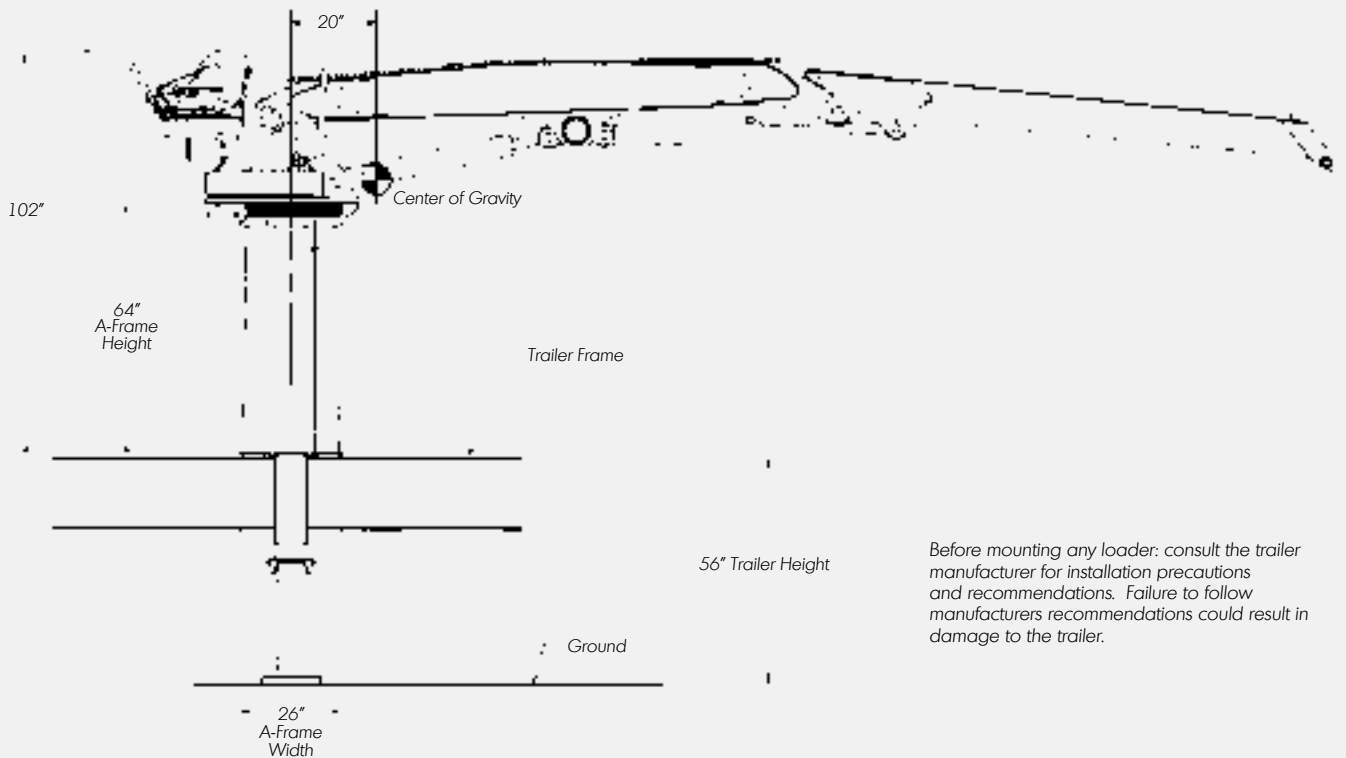
PRENTICE 2124 SELF-LOADER TRUCK MOUNT



Minimum Carrier is a single axle truck with frame section modules of 18 cu. in. and GVW rating of 27,000 lbs.

Recommended Carrier is a live tandem truck with frame section modules of 18 cu. in. and GVW rating of 32,000 lbs.

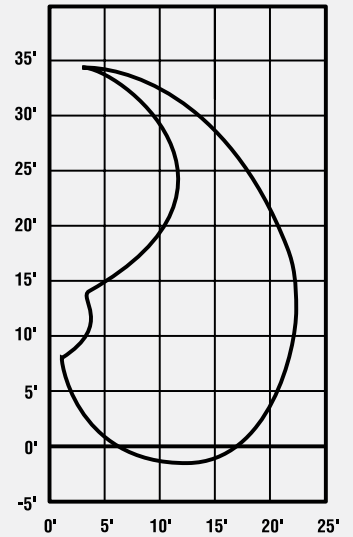
PRENTICE 2124 SELF-LOADER TRAILER MOUNT



2124 LIFT CAPACITY

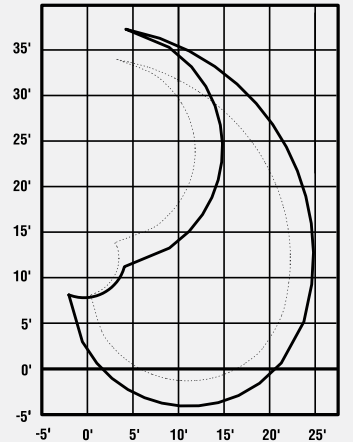
Lift Capacity Chart PRENTICE 2124 · Boom Type: Knuckleboom · Boom length: 22'

	5'/1.5m		10'/3m		15'/4.6m		20'/6.1m		Full Reach
	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	
30'/9.1m			5528	5528					2962
25'/7.6m					4613	2092			2500
20'/6.1m					5198	2358	3324	1508	2298
15'/4.6m			6842	6842	6030	2735	4070	1846	2314
10'/3m	3974	1802	9325	9325	6363	2886	4591	2082	2242
5'/1.5m	4898	2222	9058	9058	5974	2710	3582	1625	2327
0 0.0			6544	6544	4087	1854			3329
			6172	6172	3838	1741	3369	1528	



Lift Capacity Chart PRENTICE 2414 · Boom Type: Knuckleboom · Boom length: 25'

	5'/1.5m		10'/3m		15'/4.6m		20'/6.1m		Full Reach
	kg.	lbs.	kg.	lbs.	kg.	lbs.	kg.	lbs.	
30'/9.1m					3975	1803			1995
25'/7.6m					3915	1776	3259	1478	1693
20'/6.1m					4099	1859	3663	1661	1634
15'/4.6m					4802	2178	4169	1891	1769
10'/3m	12762	5789	7960	3611	6059	2748	4706	2134	1693
5'/1.5m	5077	2303	9332	4233	6243	2831	4460	2068	1642
0 0.0	7496	3400	7736	3509	5077	2303	3001	1361	2592



NOTES:

Capacities shown in "Black" are 100% of main cylinder hydraulic capability; capacities shown in "Red" are 87% of hydraulic capacity.

Notice that some of the lifts in "Red" are higher than main only, since the stick has mechanical advantage and the limiting lift is the main relief.

2124 SPECIFICATIONS

HYDRAULIC SYSTEM

Type	Split flow tandem circuit hydraulic system. System pressure 3200 psi.
Operation	Fully independent simultaneous operation of main boom and swing. Flow diverted to operate stabilizers.
Control Valves	Stack sections with mechanical joysticks. Valves contain port reliefs and anti-cavitation valves for loader protection and control. Port relief settings are 3800 psi.
Cylinders	4.5" Main and stick double acting with solid rods.
Diagnostic Nipples	Located at control valves.
Oil Filter	Two return spin on filters, 2 nominal/10 absolute micron filter. Twenty five micron case drain filter.
Oil Reservoir	Forty two (42) gallon capacity. Filtered breather, sight gauge. Cylindrical design, aluminum fabrication.
Pump Mounting	Direct mounted PTO driven, bi-rotational, delivering 40 GPM. (Optional Chassis mount configuration.)
Loader Pump	Tandem gear type (21 + 19) operating at 1650 rpm (max) through PTO. Pump rated for 3500 psi.
Swivel	Steel barrel with Durabar core. Five passages for pressure, return and stabilizers. Eight ring electric collector standard for optional light packages.
Hoses & Hydraulic Tubes	4000 psi rated hose with wear resistant coating. Steel ORS tubing.
Fittings	ORS fittings.

KNUCKLE BOOM

Boom Length	22' horizontal reach. 34' working height to boom tip. (Optional Tele-Boom): 25' horizontal reach. 37' working height to boom tip.
Boom Structure	Boom is high tensile steel fabrication. Main boom equivalent to 10" x 6" Spar tube. Stick boom equivalent to 8" x 6" spar tube.
Construction	Welded high tensile steel "Knuckle type" boom with heat treated high alloy steel pins and aluminum-bronze pivot bushings; self-aligning bushings at both ends of main and stick boom cylinders. Boom & cylinder pin bushings are greased through pins. Castings at base end, stick end and midpoint of mainboom assembly

STABILIZERS

Type	Telescopic A-frame stabilizers with individual platform controls for uneven terrain.
Structural	Stabilizer legs are 7" x 7" high tensile steel tubing.
Stab Pads	Stabilizer pads measure 10" x 15".
Clearances	Ground clearance for stabilizers in retracted position is 20". Below grade reach in extended position is 16".
Stowed	Stabilizers stowed position 99" wide. Width at grade level 112" (on 40" truck). Width fully extended 122".

STRUCTURAL

Pedestal	"A-Frame" pedestal design is formed high strength steel plate.
Swing System	Continuous rotation; ring and pinion gear set driven by an axial piston hydraulic motor through a planetary gearbox. Slewing ring is 25.65" diameter. Swing torque 14,545 ft.lbs.
Travel	Swing system is secured by house lock during transit
Travel Height	13' 2" maximum stowed height above ground (40" truck frame height)
Mounting	"A-frame" mounting base is 35 3/4" wide x 26" long for mounting on standard truck chassis.

CYLINDERS

Main Boom	(1) 4.5" Bore x 2 1/2" Rod
Stick Boom	(1) 4.5" Bore x 2 1/2" Rod
Stabilizers	(2) 3" Bore x 2" Rod

OPERATION OF LOADER

Operator's Platform	Platform right side mounted with fold over seat. Access to platform by single ladder.
Seat	Fold down seat with armrests
Controls	Two mechanical joysticks and proportional teleboom controls. Swing pedal with mechanical linkage. Individual controls for activation of stabilizer.

CAPACITY (Note: SAE Standard 87% Ratings)

Radius	Elevation	Lift Capacity (lbs.)
5'	5'	5,050
10'	5'	8,523
15'	5'	5,567
20'	5'	3,266
22'	5'	2,084

Note: Deduct grapple weight for payload



www.prenticeforestry.com

Blount Inc.
535 Mack Todd Road
Zebulon, NC 27597
919-269-7421

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