

## TM1500

**Carrier-Mounted Hydraulic Crane** 



## Carrier specifications

Frame	High strength alloy steel all welded box-type		
	construction with integral outrigger housings and		
	front/rear lifting, towing and tie down lugs.		
Outrigger	Hydraulic double stage, double box telescopic beam		
System	and jack outriggers with integral holding valves. All		
1.5	steel fabricated quick release type outrigger floats.		
	30 1/2 in. (775mm) diameter. Maximum outrigger		
	pad load 282,825 lbs. (92000 kg). Standard fifth from		
	stabilizer for 360° duties.		
Outrigger	Located in the superstructure cab and on both sides of		
Controls	the carrier frame. Push button controls requiring two		
	handed operation. Crane level indicator (sight-		
	bubble) adjacent to each set of controls.		
Engine	Cummins NTC 450C, six-cylinder turbo-charged		
	after-cooled diesel. 450 bhp (335 kw) (gross) @		
	2,100 RPM. Maximum net torque 1500 ft. lbs.		
	(194 kg/m) @ 1,400 RPM.		
Fuel Tank	(1) 100 gallons (378.5L)		
Capacity			
Electrical	Two 12 volt - maintenance free batteries,		
System	12 volt starting.		
Drive	12 x 6		
Steering	Front axle steering, cam and lever type with hydraulic		
	assist.		
Transmission	Fuller Roadranger, 9 speeds forward, 2 reverse.		
Axles	Front: (3) Rockwell tubular steering		
	FL951, 100 in. (2540mm) track.		
	Rear: (3) Rockwell EPRC 1735 planetary drive,		
	85 in. (2159mm) track.		
Suspension	Front axles (3) spring mounted tridem.		
-	Rear axles (3) solid mounted tridem with equalizing		
	beams.		
Tires	Michelin 14.00X20-22PR(G20 X ZA4) radial ply tires		
	front and back.		
Brakes	Full air on all wheels. Air dryer provided to preclude		
	moisture accumulation. Spring set emergency brake		
	on all rear axles with emergency release.		
Lights	Full lighting including head, tail, braking, reversing,		
	directional and hazard warning lights.		
Cab	Two man design, all-steel fabricated with acoustical		
	lining and tinted safety glass throughout. Deluxe		
	fabric covered fully adjustable seat. Complete driving		
	controls and engine instrumentation including		
	tachometer, speedometer, voltmeter, water temp. oil		
	pressure, fuel level, air pressure gauge with A/V		
	warning. Other standard items include hot water		
	heater/defroster, electric windshield washer and		
	wiper, fire extinguisher, seat belt, door and window		
	locks.		
Maximum Speed	42.1 MPH (67.3 kph).		

Equipment	pressure/high water temperature audio visual warning.		
Optional	Immersion engine block heater, engine low oil		
Equipment	Jacobs engine brake and tire inflation kit.		
Standard	trough, electronic back-up alarm, light package.		
Miscellaneous	Dual rear view mirrors, hookblock stowage		
Loads	G.V.W. 193,585 lbs. (87810 kg)		
Weight & Axle	Rear: 135,646 lbs. (61529 kg)		
Gross Vehicle	Front: 57,939 lbs. (26281 kg)		
	BASIC STANDARD MACHINE		

\*Denotes optional equipment

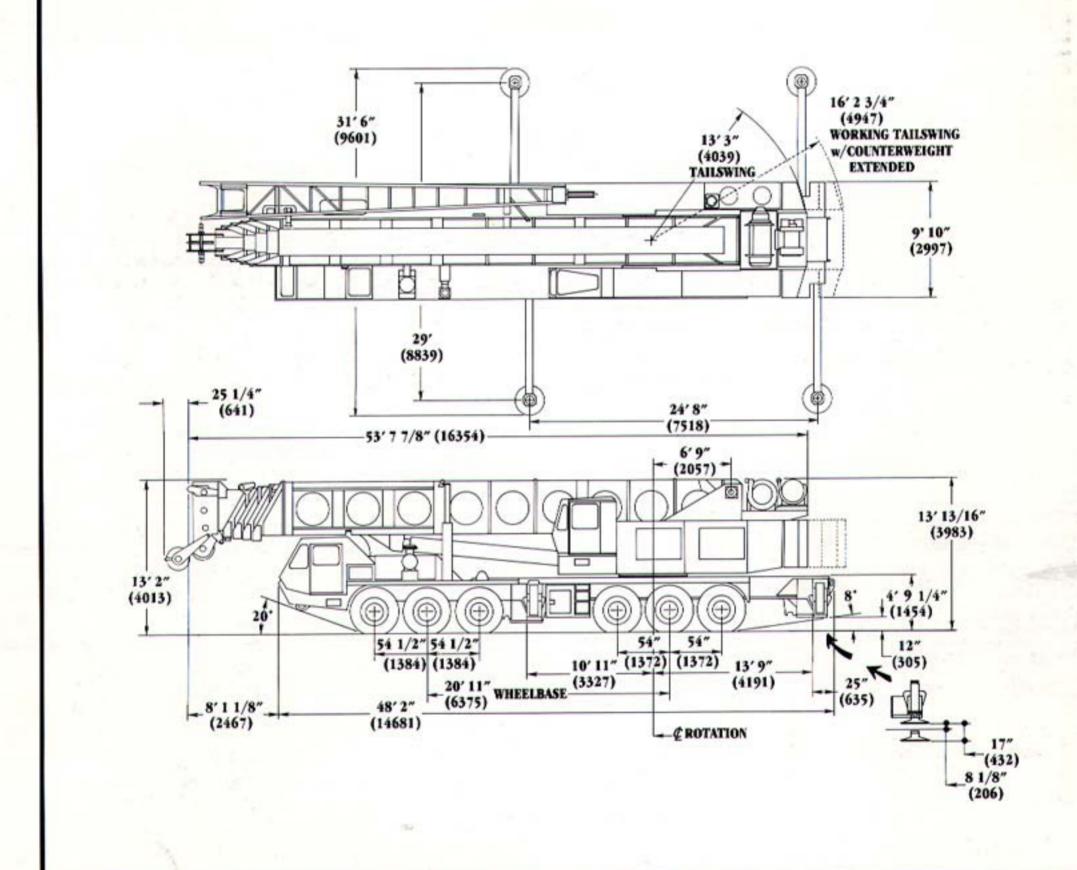
## Superstructure specifications

Boom	46 ft. to 173 ft. (14m -53m) five section Trapezoidal	HYDRAULIC SYSTEM			
	boom, including remote-controlled aerial pinned	Pumps	Six main gear pumps powered by superstructure		
	section. Telescope sections are supported on				Combined capacity
	replaceable graphite impregnated low friction wear	Volume	349 GPM (1321		antrol values six
	pads. Maximum Tip Height: 182 ft. (55m).	Valves	Precision four way double acting control valves, six individual valve banks permit simultaneous control of		
Swingaway	33 ft. (10.1m) lattice swingaway boom extension		multiple crane f		naricous control of
Extension	stows alongside base boom section when not in use.	Filter			ass protection and
A CALL	Offsettable at 2°, 15° or 30°.		2410	dicator, replaceable	
	Maximum Tip Height: 215 ft. (66m).		micron filtration		0,
*Optional	33 ft. to 58 ft. (10m-18m) telescopic lattice swingaway	Reservoir	420 gallons (15	90 liters) with spin	-on breather filter,
Telescopic	extension with offset links, offsettable at 2°, 15° or		external sight ga	auge, clean out acco	ess, strap mounted
Swingaway	30°. Stows alongside base boom when not in use.		to frame.		
Note Note	Maximum Tip Height: 240 ft. (73m).	Oil Cooler	and the same of th	d tube, oil to air.	
*Optional Jib	60 ft. (18m) or 88 ft. (27m) fixed offset jib. Also	HOIST SPECIFICATION			
Extension	available are 60 ft. and 88 ft. power luffing jibs.		Series parallel circuitry and two motors provide both		
Boom Nose	Maximum Tip Height: 270 ft. (82m).			d speed ranges. Power up and down,	
	Eight nylatron sheaves mounted on heavy duty tapered			metary reduction w	Control of the Contro
	roller bearings with removable pin-type rope guards.		indicator.	l electronic hoist dr	um rotation
	Standard removable auxiliary boom nose with removable pin-type rope guard.			armatic Model 4	(-26(H) and
Boom Elevation	Dual double acting hydraulic cylinders with integral		Main Hoist Gearmatic Model 44-26(H) and Grove Auxiliary Hoist HO30B-26(H)		
boom Elevation	holding valve provides elevation from -3° to 80°.	Make/Model	Grove .	Main	Auxiliary
Load Moment	Standard load moment and anti-two block system with	Maximum	Bottom Layer	314 FPM	454 FPM
& Anti-Two	audio-visual warning and control lever lockout. These	single line		(96m/min)	(138m/min)
Block System	systems provide electronic display of boom angle,	speed			, T
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	length, radius, tip height, relative load moment,		Intermediate	366 FPM	528 FPM
	maximum permissible load, load indication and		Layer	(112m/min)	(161m/min)
	warning of impending two-block condition.				
Cab	Full vision, all-steel fabricated with acoustical lining		Top Layer	419 FPM	601 FPM
	and tinted safety glass throughout. Dash panel		7,200 (6)	(128m/min)	(183m/min)
	incorporates gauges for all engine functions. Other	Maximum	Bottom Layer	24,900 lbs.	16,322 lbs.
	standard features include: hinged skylight, sliding left	single line		(11295 kg)	(7404 kg)
	side door and sliding right side window, electric	pull	Y	21 227 11	1400611-
	windshield washer and wiper, circulating air fan,		Intermediate	21,327 lbs.	14,056 lbs.
	heater and defroster, swing horn, fire extinguisher, and seat belt. *Optional items: electric skylight wiper		Layer	(9674 kg)	(6376 kg)
	and air conditioning.		Top Layer	18,650 lbs.	12,344 lbs.
Swing	Roller bearing swing circle with 360° continuous		Top Layer	(8460 kg)	(5599 kg)
	rotation. Grove planetary "glide-swing" with foot	Maximum permissible	2	22,760 lbs.	12,920 lbs.
	actuated disc brake, spring applied hydraulically	line pull w/5:1		(10324 kg)	(5861 kg)
	released park brake and 360° position positive	strength factor			
	turntable lock. Combination controls provided for	Maximum		950 ft. of 1 in.	830 ft. of 3/4 in.
	hand or foot operation. Swing speed 1.9 RPM.	rope		dia. rope	dia. rope
Counterweight	Turntable mounted, power installed and removed,	stowage		(290m of	(253m of
	hydraulically extended to working position and			25.4mm)	19.1mm)
	retracted to stowed or travel position. 15,700 lbs.				
	(7122 kg) with auxiliary hoist; 17,400 lbs. (7892 kg)			*Denotes	optional equipment
	without auxiliary hoist.			100	
Engine	Cummins 6CTA8.3 six cylinder turbo-charged after-			200	
	cooled diesel, 250 bhp (186 kw) (gross) @ 2500				

RPM. Maximum torque: 650 ft. lbs. (90 kg/m) @

1800 RPM.

## Dimensions TM1500





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