

# Carrier-Mounted Hydraulic Crane Specifications



# 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 single stage double box telescopic beam and		
System	outriggers with integral holding valves. Inverted jack		
	cylinders (4). Standard 5th vertical jack mounted to		
	the front frame section to permit 360° lifting		
	capabilities. All steel fabricated quick release type		
	outrigger floats 30.5" (775mm) diameter		
	Maximum outrigger pad load 103,434 lbs.		
	(46,918 kgs).		
Outrigger	Located in superstructure cab and both sides of		
Controls	carrier. Push button controls requiring two-handed		
	operation. Crane level indicator (sight bubble)		
	adjacent to controls.		
Engine	Cummins NTA855C six cylinder turbo-charged after		
	cooled diesel 855 cu. in. (14 L) 310 bhp (231 kw)		
	(gross) @ 2100 RPM. Maximum torque 1005 ft. lbs.		
	(139 kg/m) @ 1400 RPM.		
Fuel Tank	(1) 100 gallons (379 L)		
Capacity			
Electrical	Two 12-volt - maintenance free batteries,		
System	24 volt starting.		
Drive	8 x 4		
Steering	Front axle steering, worm and lever type with		
	hydraulic assist.		
Transmission	Roadranger gearbox with 9 speeds forward and 2		
	reverse, with 2 speed auxiliary transmission.		
Axles	Axles 1 & 2, steering, tubular steel, 102 in.		
	(2591mm) track.		
	Axles 3 & 4, single reduction drive, 100 in.		
	(2540mm) track.		
Suspension	Front axles (1 & 2) spring mounted tandem.		
	Rear axles (3 & 4) solid mount tandem with		
	equalizing beam and solid steel saddles.		
Tires	Front: 445/65R22.5-20PR radial, highway		
	tread singles.		
	Rear: 12.00R20-18PR highway tread tube type		
	duals.		
Optional	Rear: 365/80R20-20PR highway tread tube		
Tires	type duals.		
Brakes	Full air on all wheels. Air dryer provided to preclude		
	moisture accumulation. Spring set emergency brake		
	on both rear axles with emergency release.		
Lights	Full lighting including head, tail, braking, reversing,		
	directional and hazard warning lights		

Cab	One 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-wiper, fire extinguisher, seat belt and door and window			
	locks.			
Maximum Speed	49.7 MPH (80 kpl			
	BASIC STANDARD	MACHINE		
Gross Vehicle	Front Tandem:	41,922 lbs. (19,016 kgs)		
Weight & Axle	Rear Tandem:	59,168 lbs. (26,839 kgs)		
Loads	G.V.W.:	101,090 lbs. (45,855 kgs)		
Miscellaneous	Dual rear view mis	Dual rear view mirrors, hookblock tiedown sling,		
Standard		electronic back-up alarm, light package, engine low		
Equipment	oil pressure/high water temperature audio visual			
	warning, carrier mounted outrigger controls, Jacobs			
	engine brake, tire inflation kit.			
Optional		Immersion engine block heater, trailing boom prep.,		
Equipment	trailer air and electrical, air conditioning.			

\*Denotes optional equipment.

# Superstructure specifications

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Boom	40 ft 125 ft. (12.1m - 38.1m) four section Trape-
	zoidal boom, sequenced-synchronizing. Telescopic
	sections slide on adjustable and replaceable Nylatron
	pads.
	Maximum Tip Height: 133 ft. (40.5m).
Telescopic	32 ft 44 ft 56 ft. (9.8m - 13.4m - 17.1m)
Swingaway	telescopic lattice swingaway extension with offset links
	offsettable at 2°, 15° or 30°. Stows alongside base
	boom when not in use.
	Maximum Tip Height: 188 ft. (57.3m)
Boom Nose	Six steel sheaves mounted on heavy duty tapered roller
	bearings with removable pin-type rope guards.
	*Optional removable single sheave auxiliary boom
	nose with removable pin type rope guard.
Boom Elevation	Two double acting hydraulic cylinders with integral
	holding valve provide elevation from -3.75° to 81.5°.
Load Moment	Standard load moment and anti-two block system with
& Anti-Two	audio-visual warning and control lever lockout. These
Block System	systems provide electronic display of boom angle,
•	length, radius, tip height, relative load moment,
	maximum permissible load, load indication and
	warning of impending two-block conditions.
Cab	Full vision, all steel fabricated with acoustical lining
	and tinted safety glass throughout. Dash panel
	incorporates gauges for all engine functions. Other
	standard features include: hinged skylight, sliding left
	side door and sliding right side window, electric
	windshield washer-wiper, circulating air fan, heater,
	swing horn, fire extinguisher, seat belt. *Optional:
	air conditioning.
Swing	Ball bearing swing circle with 360° continuous rota-
owing.	tion. Grove planetary "glide-swing" with foot actuated
	disc brake, spring applied hydraulically released park
	brake and 360° position positive turntable lock.
	Combination controls provided for hand or foot
Countomy-1-be	operation. Swing speed 1.4 RPM.
Counterweight	Fixed position pinned to turntable. Power installation
	and removal system. Weight varies depending on hoist
	configuration.

HYDRAULIC SYSTEM			
Pumps	Two tandem main gear pumps driven by carrier		
-	engine through PTO with manual disconnect.		
	Combined capacity 188 GPM (678 LPM).		
Valves	Precision four way double acting control valves, 4		
	individual valve banks permit simultaneous control of multiple crane functions.		
Filter	Return line type, full flow with by-pass protection and		
	filter by-pass indicator, replaceable cartridge, 7/17/22		
	micron filtration rating.		
Reservoir	197 gallons (746 L) with spin-on breather filter,		
	external sight gauge, clean out access, strap mounted		
	to frame.		
Oil Cooler	Full flow, fin and tube, oil to air.		
HOIST SPECIFICATIO	NS		
	Series parallel circuitry and two motors provide both		
	high line pull and speed ranges. Power up and down,		
	equal speed, planetary reduction with integral		

indicator.

### Main and \*Auxiliary Hoist Grove HO30B-26

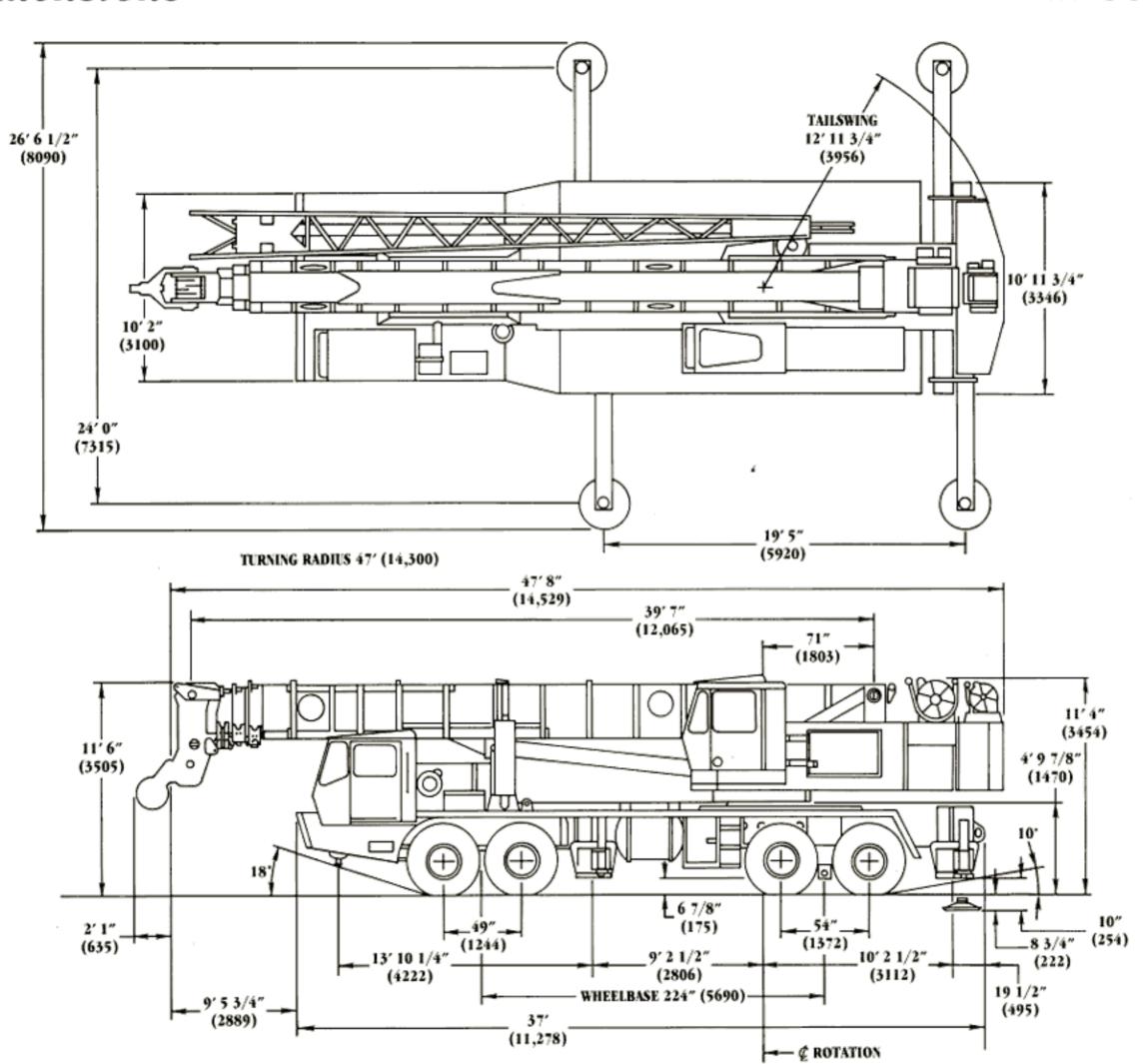
automatic brake and electronic hoist drum rotation

Make/Model		High Range	Low Range			
Maximum	Bottom layer	458 FPM	229 FPM			
single line		(140m/min)	(70m/min)			
speed	Intermediate	534 FPM	267 FPM			
	layer	(163m/min)	(81m/min)			
	Top layer	608 FPM	304 FPM			
		(185m/min)	(92m/min)			
Maximum	Bottom layer	8,161 lbs.	16,322 lbs.			
single line		(3701 kg)	(7402 kg)			
pull	Intermediate	7,028 lbs.	14,056 lbs.			
	layer	(3187 kg)	(6375 kg)			
	Top layer	6,172 lbs.	12,344 lbs.			
		(2799 kg)	(5598 kg)			
Maximum		12,920 lbs.				
permissible		(5860 kg)				
line pull	3/4 in. (19mm) 18 x 19 class					
w/5:1 strength	ı factor					
Maximum	832 ft. (253m)					
rope	3/4 in. (19mm)					
stowage	Note: 650 ft. (198m) length of 3/4 in. (19mm) wire					
_	rope supplied with basic standard unit.					
	*Denotes entional environment					

\*Denotes optional equipment

## **Dimensions**

# **TMS800B**





Grove Worldwide - World Headquarters

1565 Buchanan Trail East

Shady Grove, Pennsylvania 17256

Phone: (717) 597-8121 Telex: 1842308 Fax: (717) 597-4062

**Grove North America** 

P.O. Box 21, Shady Grove, Pennsylvania 17256

Western Hemisphere, Asia/Pacific

Phone: (717) 597-8121 Telex: 1842308 Fax: (717) 597-4062

**Grove Europe\*** 

Sunderland. England SR4 6TT Europe, Africa, Middle East, Near East

Phone: (091) 565-6281 Telex: 53484 CRANES G Fax: (091) 564-0442

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