



GROVE®
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RT745

Rough-Terrain Hydraulic Crane Specifications



Superstructure specifications

Boom	34 ft. to 104 ft. (10.4m - 31.7m) four section trapezoidal boom consisting of a base section, two full power sections and one power pinned section. Telescopic sections slide on adjustable and replaceable Nylatron wear pads. Maximum Tip Height: 112 ft. (34.1m).
Optional Boom	33 ft. to 80 ft. (10.1m-24.4m) three section trapezoidal full power boom consisting of a base section and two full power sections. Telescopic sections slide on adjustable and replaceable Nylatron wear pads. Maximum Tip Height: 88 ft. (26.8m)
Swingaway Extension (4 section boom)	32 ft. (9.8m) lattice swingaway boom extension with integral offset mechanism, offsetable at 0°, 15° or 30°. Stows alongside base boom section when not in use. Maximum Tip Height: 142 ft. (43.3m).
Swingaway Extension (3 section boom)	32 ft. (9.8m) lattice swingaway boom extension stows alongside base boom section. Maximum Tip Height: 120 ft. (36.6m).
Optional Telescopic Swingaway Extension (4 section boom)	32 ft. to 44 ft. or 56 ft. (9.8m to 13.4m or 17.1m) telescopic lattice swingaway extension with integral offset mechanism, offsetable at 0°, 15° or 30°. Stows alongside of base boom section. Maximum Tip Height: 165 ft. (50.3m).
Boom Nose	Four steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. *Optional auxiliary boom nose.
Boom Elevation	Dual, double acting hydraulic cylinders with integral holding valves provides elevation from -4° to 76°.
Load Moment & Anti-Two Block System	Standard load moment and anti-two block system with audio-visual warning and control lever lockout. These 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. Complete driving controls and engine instrumentation. Dash mounted control levers for all craning functions. Other standard features include: hinged skylight, sliding left side door and sliding right side window, electric windshield washer-wiper, propane heater, circulating air fan, fire extinguisher, seat belt.
Swing	Ball bearing swing circle with 360° continuous rotation. Grove planetary glide-swing with foot applied multi-disc brake. Spring applied hydraulically released parking brake and plunger type one-position mechanical house lock operated from cab. Maximum speed: 2.6 RPM.
Counterweight	Integral with turntable mast. 11,000 lbs. (4989 kg) with main hoist only. 9,250 lbs. (4195 kg) with main and auxiliary hoists.

HYDRAULIC SYSTEM

Pumps	4 main gear pumps, combined capacity 146 GPM (553 LPM) driven by carrier engine through P.T.O. Standard pump disconnect.
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 bypass protection and service indicator. Replaceable cartridge, with micron filtration rating of 15/30/38.
Reservoir	154 gallons (583 L) with spin-on breather filter, external sight gauge, clean out access, strap mounted to frame.
Oil Cooler	Remote mounted with Cummins and radiator mounted with Caterpillar.
Pressure Check Panel	System pressure test panel permits easy verification of circuit pressures.

HOIST SPECIFICATIONS

Power up and down equal speed, planetary reduction with automatic spring applied multi-disc brake. Electronic hoist drum rotation indicator and hoist drum cable follower.

Main and *Auxiliary Hoist Grove HO30B-16

Make/Model		High Range	Low Range
Maximum single line speed	Bottom layer	386 FPM (118m/min)	193 FPM (59m/min)
	Intermediate layer	448 FPM (137m/min)	224 FPM (68m/min)
	Top layer	510 FPM (155m/min)	255 FPM (78m/min)
Maximum single line pull	Bottom layer	8,161 lbs. (3702 kg)	16,322 lbs. (7402 kg)
	Intermediate layer	7,028 lbs. (3187 kg)	14,056 lbs. (6375 kg)
	Top layer	6,172 lbs. (2799kg)	12,344 lbs. (5598 kg)
Maximum permissible line pull		12,920 lbs. (5860 kg)	
w/5:1 strength factor		3/4 in. (19mm) 18x19 class	
Maximum rope stowage		508 ft. (155m) 3/4 in (19mm)	
	Note: 500 ft. (152.4m) of wire rope supplied with standard unit.		

*Denotes optional equipment



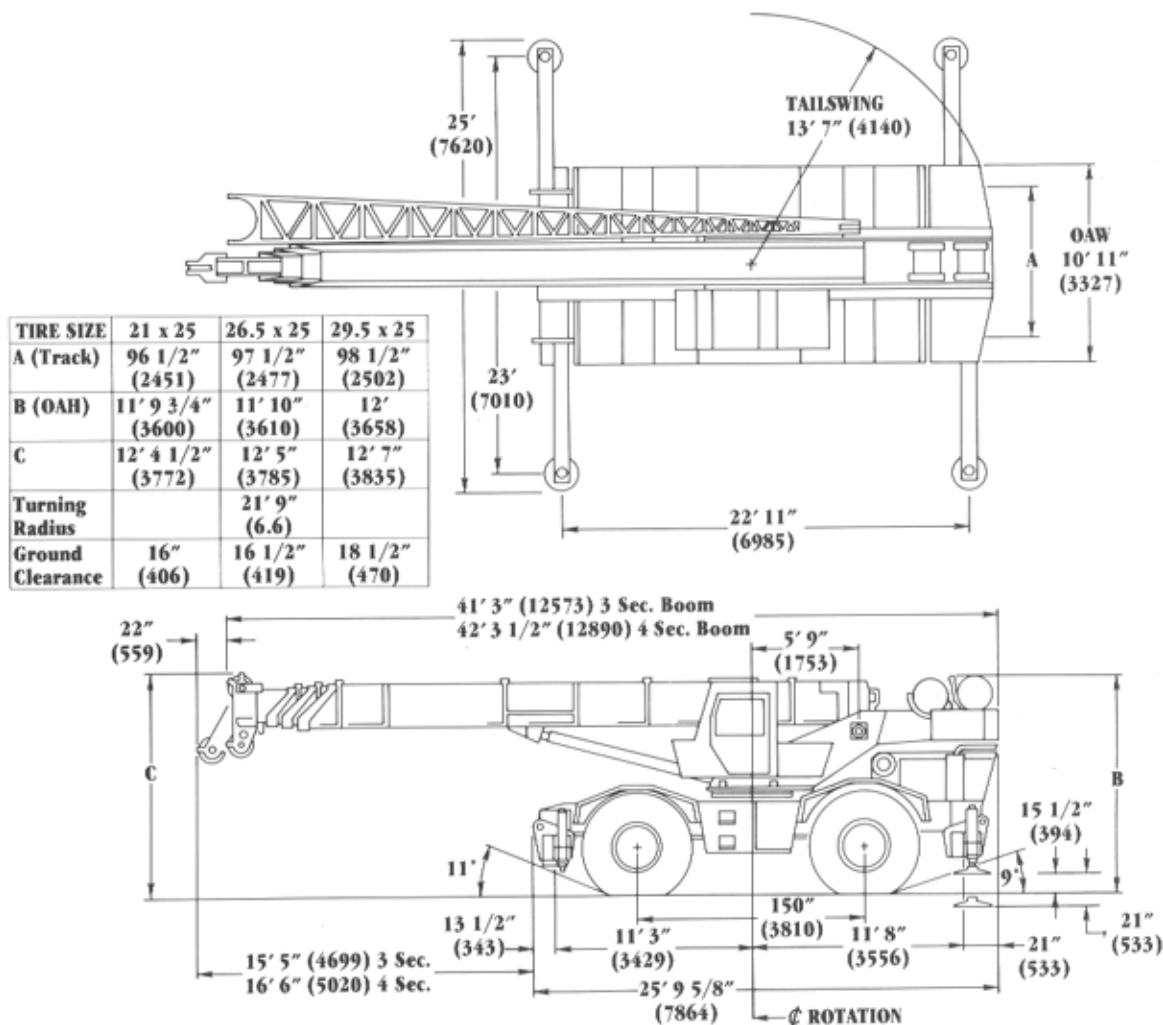
Carrier specifications

Frame	High strength alloy steel all welded box-type construction with integral outrigger housings and front/rear lifting, towing and tie down lugs.	Maximum Gradeability	128% theoretical based on 84,500 lbs. (38,329 kg) GVW. 21.00 x 25 tires, pump disengaged, 80 ft. (24.4m) boom plus 32 ft. (9.8m) swingaway.
Outrigger System	Hydraulic single stage double box telescopic beam and jack outriggers with integral holding valves. All steel fabricated quick release type outrigger floats, 24" (610mm) diameter. Maximum outrigger pad load 67,539 lbs. (30,636 kg).	Gross Vehicle Weight & Axle Loads	BASIC STANDARD MACHINE (3 Section Boom) Front: 36,845 lbs. (16,713 kgs) Rear: 41,855 lbs. (18,985 kgs) G.V.W.: 78,700 lbs. (35,698 kgs) BASIC STANDARD MACHINE (4 Section Boom) Front: 40,108 lbs. (18,193 kgs) Rear: 40,592 lbs. (18,413 kgs) G.V.W.: 80,700 lbs. (36,606 kgs)
Outrigger Controls	Located in cab on right side console requires two hand operation. Crane level indicator located in cab.	Miscellaneous Standard Equipment	Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well.
Engine	Cummins 6BTA5.9 six cylinder turbo-charged water cooled diesel - 5.9 L, 192 bhp (143 kw) (Gross) @ 2,800 RPM. Maximum torque 458 ft. lbs. (63 kg/m) @ 1,700 RPM.	Optional Equipment	* Auxiliary hoist * Worklights * 360° rotating beacon * Cab spotlight * Outrigger spin locks * Engine block heater * Manual skylight wiper * Hookblocks * Tow winch (front mounted-maximum single line pull - 15,000 lbs. [6804 kg]; maximum speed - 92 FPM [28.0 m/m]) * Spare wheel assembly * Tire inflation kit * Tool kit * Pintle hook front/rear * Diesel heater/defroster
Optional Engine	CAT 3208 eight cylinder naturally aspirated water cooled diesel, 195 bhp (145 kw) (Gross) @ 2,600 RPM. Maximum torque 489 ft. lbs. (68 kg/m) @ 1,200 RPM.		
Fuel Tank Capacity	60 gallons (227 L)		
Electrical System	Two (four with CAT) 12 volt maintenance free batteries, 625 CCA @ 0° degree F. 24 volt starting.		
Drive	4 x 4		
Steering	Fully independent power steering: Front: Full hydraulic controlled by steering wheel. Rear: Full hydraulic hand lever controlled. Provides infinite variations of 4 main steering modes - front only, rear only, crab and coordinated. Rear wheel steer indicator.		
Transmission	Remote mounted powershift with 6 speeds forward and 6 reverse, 3 in high range, 3 in low range. Rear axle disconnect for 4 x 2 travel.		
Axles	Front: Drive-steer with differential and planetary reduction hubs rigid mounted to the chassis. Rear: Drive-steer with differential and planetary reduction hubs, pivot mounted at the center of chassis frame, providing up to 10" (254mm) oscillation. Optional: *No-spin differential on rear axle.		
Oscillation Lockouts	Automatic full hydraulic lockouts on rear axle permits oscillation only with boom centered over the front. *Optional oscillation lockout override control.		
Tires	Standard 21.00 x 25-24PR earthmover type tubeless.		
Optional Tires	*26.5 x 25-26PR earthmover type tubeless; 29.5 x 25-22PR earthmover type tubeless.		
Brakes	Dual braking system, full air operating on all four wheels. Spring-applied, air released parking brake operating on all four wheels.		
Lights	Full lighting package including turn indicators, head, tail, brake and hazard warning lights.		
Maximum Speed	20.3 MPH (32.7 kph)		

*Denotes optional equipment.



Dimensions

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