



GROVE[®]
worldwide



RT875

Rough-Terrain Hydraulic Crane Specifications

Superstructure specifications

Boom	36 ft. to 114 ft. (11.0m - 34.7m) total length four section Trapezoidal power pinned boom. Telescoping sections slide on adjustable and replaceable Nylatron wear pads. Maximum Tip Height: 122 ft. (37.1m).
Optional Boom	36 ft. to 114 ft. (11.0m - 34.7m) total length four section Trapezoidal full power boom. Telescoping sections slide on adjustable and replaceable Nylatron wear pads. Maximum Tip Height: 122 ft. (37.1m).
Swingaway Extension	33 ft. (10.0m) lattice swingaway boom extension stows alongside base boom section when not in use, offsettable at 2°, 15° or 30°. Maximum Tip Height: 155 ft. (47.2m)
*Optional Telescopic Swingaway	33 ft. - 58 ft. (10m - 17.7m) telescopic lattice swingaway extension with offset links, offsettable at 2°, 15° or 30°. Stows alongside base boom section when not in use. Maximum Tip Height: 178 ft. (54.2m).
*Optional Jib	14 ft. (4.3m) lattice sections combine with a 32 ft. (9.8m) tip section to provide 46 ft. (14m), 60 ft. (18.2m), 74 ft. (22.5m) and 88 ft. (26.8m) jib lengths. Jib is cable suspended and can be offset at 5°, 17° and 30°. Maximum Tip Height: 206 ft. (62.7m).
Boom Nose	Six Nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. *Optional removable auxiliary boom nose with removable pin type rope guard.
Boom Elevation	Two double acting hydraulic cylinders with integral holding valves provide elevation from -4° to 80°.
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 condition.
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 wash-wipe, propane heater, circulating air fan, fire extinguisher, seat belt and manual skylight wiper.
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 hand operated 360° mechanical house lock operated from cab. Maximum speed: 2 RPM.

Counterweight	Integral with turntable mast. Standard basic machine with main hoist and P.P. boom: 14,000 lbs. (6350 kg).
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HYDRAULIC SYSTEM

Pumps	Four main gear pumps, combined capacity 178 GPM (674 LPM) driven by carrier engine through PTO with 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 7/17/22.
Reservoir	225 gallon (852 L) with spin-on breather filter, external sight-level gauge, clean out access, strap mounted to frame.
Oil Filter	Remote mounted with thermostatically controlled hydraulic motor driven fan.
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 and electronic drum rotation indicator and hoist drum cable follower.

Main and *Auxiliary Hoist Grove HO30B-26

Make/Model		High Range	Low Range
Maximum single line speed	Bottom layer	426 FPM (130m/min)	213 FPM (65m/min)
	Intermediate layer	496 FPM (151m/min)	248 FPM (75m/min)
	Top layer	564 FPM (172m/min)	282 FPM (86m/min)
Maximum single line pull	Bottom layer	8,161 lbs. (3701 kg)	16,322 lbs. (7403 kg)
	Intermediate layer	7,028 lbs. (3187 kg)	14,056 lbs. (6375 kg)
	Top layer	6,172 lbs. (2799 kg)	12,344 lbs. (5596 kg)
Maximum permissible line pull		12,920 lbs. (5860 kg)	
w/5:1 strength factor		3/4 in. (19mm) 18x19 class	
Maximum rope stowage	832 ft. (254m) of 3/4 in. (19mm)	Note: 800 ft. (244m) length of wire rope supplied with basic 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.
Outrigger System	Hydraulic single stage double box telescopic beam and jack outriggers with integral holding valves. All steel fabricated quick release type outrigger floats, 30.5 in. (775mm) diameter. Maximum calculated outrigger pad load 105,313 lbs. (47,770 kg).
Outrigger Controls	Located in cab on right side console requires two hand operation. Crane level indicator located in cab.
Engine	Cummins 6CTA 8.3L six cylinder turbo-charged diesel, 250 bhp (186 kw) (Gross) @ 2,500 RPM. Maximum torque 650 ft. lbs. (90 kg/m) @ 1,800 RPM.
Fuel Tank Capacity	100 gallons (379 L)
Electrical System	Two 12-volt - maintenance free batteries, 815 CCA @ 0°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 4x2 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 12 in. oscillation (305mm). 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. Oscillation lockout override control.

Tires	29.5 x 25 - 28 PR (E-3) Earthmover type, tubeless. *Optional - 33.25 x 29 - 26 PR.
Brakes	Dual braking system, full air operating on all wheels. Spring-applied, air released parking brake operating on all wheels.
Lights	Full lighting package including turn indicators, head, tail, brake and hazard warning lights.
Maximum Speed	18.7 MPH (30.1 kph)
Maximum Gradeability	127% (Theoretical based on 118,000 lbs. [53,525 kg] GVW). 29.5 x 25 tires, pump disengaged.
Gross Vehicle Weight & Axle Loads	BASIC STANDARD MACHINE Front: 54,940 lbs. (24,920 kg) Rear: 56,920 lbs. (25,820 kg) G.V.W.: 111,860 lbs. (50,740 kg)
Miscellaneous Standard Equipment	Full width steel fenders, dual rear view mirrors, electronic back-up alarm, light package, air dryer, tire inflation kit, hydraulic oil temperature gauge.
Optional Equipment	* Hookblocks * Spare wheel assembly * Pintle hook front/rear * Tow winch - front mounted * Worklights * Cab spotlight * Low oil pressure, high water temp. A/V warning system * Mechanical outrigger spinlocks * 360° rotating beacon * Engine block heater * Tool kit * Dual base boom mounted floodlights * Diesel heater/defroster

*Denotes optional equipment.

