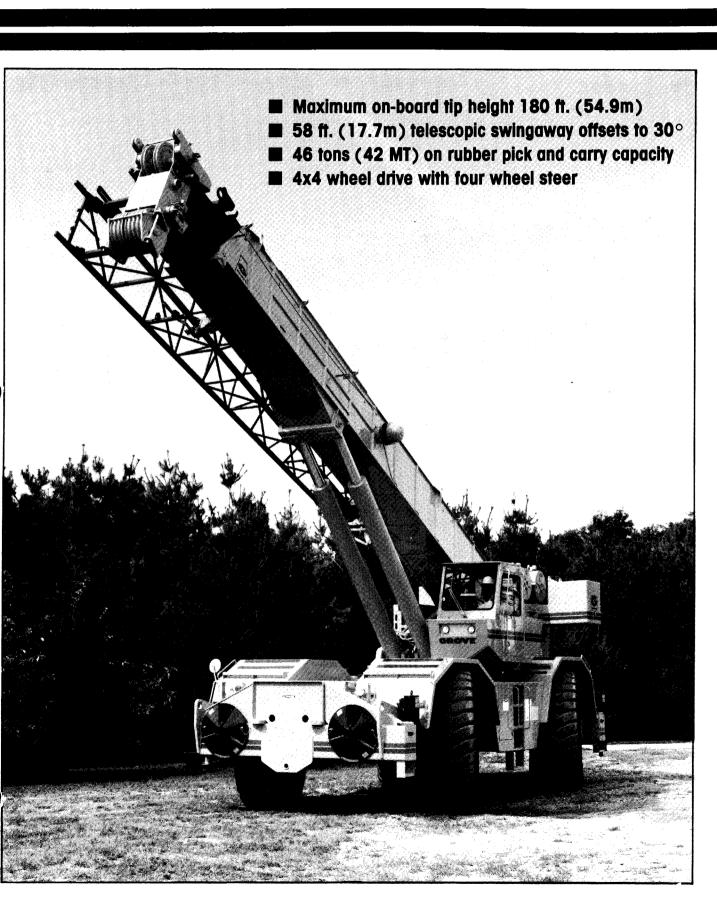


# RT990 Rough-terrain hydraulic crane



## **Superstructure specifications**

Boom	36 ft. to 114 ft. (11.0m - 34.7m) total length	Counterweigh	t Remov	Removable, bolted to turntable mast.		
	four section Trapezoidal† full power boom. Telescoping sections slide on adjustable and replaceable Nylatron wear pads.  Maximum Tip Height: 124 ft. (37.7m).	HYDRAULIC S Pumps	Six ma 254.9	Six main gear pumps, combined capacity 254.9 GPM (964 LPM) driven by carrier engine through P.T.O. with pump disconnect.		
Swingaway Extension	33 ft. (10.0m) lattice swingaway boom exension stows alongside base boom section when not in use, offsettable at 2°, 15° or 30°.  Maximum Tip Height: 155 ft. (47.2m).	Valves	6 indiv	cision four way double acting control valves, adividual valve banks permit simultaneous trol of multiple crane functions.		
Optional Felescopic Swingaway	33 ft58 ft. (10m-17.7m) telescopic lattice swingaway extension with offset links, offsettable at 2°, 15° or 30°. Stows alongside	ar		Return line type, full flow with bypass protection and service indicator. Replaceable cartridge, with micron filtration of 7/17/22.		
	base boom section when not in use.  Maximum Tip Height - 180 ft. (54.8m).	Reservoir	ter, ext	175 gallon (1,419 L) with spin-on breather fil- er, external sight gauge, clean out access, trap mounted to frame.		
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) amd	Oil Cooler Remot		e mounted with thermostatically con- hydraulic motor driven fan.		
	88 ft. (26.8m) jib lengths. Jib is cable suspended and can be offset at 5°, 17° and 30°.  Maximum Tip Height - 208 ft. (63.4m).	Pressure Check Panel	• •			
Boom Nose	Seven 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.	HOIST SPECIF	SPECIFICATIONS  Power up and down equal speed, planetary reduction with automatic spring applied multidisc brake and electronic drum rotation indicator.  Main and *Auxiliary Hoist Grove HO30B-26			
Boom Elevation	Two double acting hydraulic cylinders with integral holding valves provides elevation from -4° to 80°.					
Anti-Two	Standard audio-visual warning device to alert	Make/Model		High Range	Low Range	
Device	operator of impending two-block condition with control lever lockout system. Also includes selective electronic display of boom angle and length with high and low angle presets.	Maximum single line speed	Bottom layer Intermediate layer	426 FPM (130m/min) 496 FPM (151m/min)	213 FPM (65m/min) 248 FPM (75m/min)	
Optional	*Optional Load Moment Indicator provides		Top layer	564 FPM (172m/min)	282 FPM (86m/min)	
LMI	display of boom angle, length, radius, tip height, relative load moment, permissible load and actual load with control lever lockout.	ght, relative load moment, permissible load dactual load with control lever lockout.  Maximum single line		8,161 lbs. (3701 kg)	16,322 lbs. (7403 kg)	
Cab	Full vision, all steel fabricated with accoustical 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 wash-wipe, circulating air fan, fire extinguisher, seat belt. *Optional items: manual skylight wiper, pro-	pull	Intermediate layer Top layer	7,028 lbs. (3187 kg) 6,172 lbs. (2799 kg)	14,056 lbs. (6375 kg) 12,344 lbs. (5596 kg)	
		Maximum permissible line pull w/5:1 F.O.S.		12,920 lbs. (5860 kg)		
Swing	pane heater/defroster.  Ball bearing swing circle with 360° continuous rotation. Grove planetary glide-swing with foot applied multi-disc brake. Spring applied	Maximum rope stowage	832 ft. (254m) 3/4 in. (19mm)  Note: 800 ft. (244m) length of wire rope supplied with basic standard unit.			
	hydraulically released parking brake and hand	Hoist option	Hoist drum cable followers.			

### **Carrier specifications**

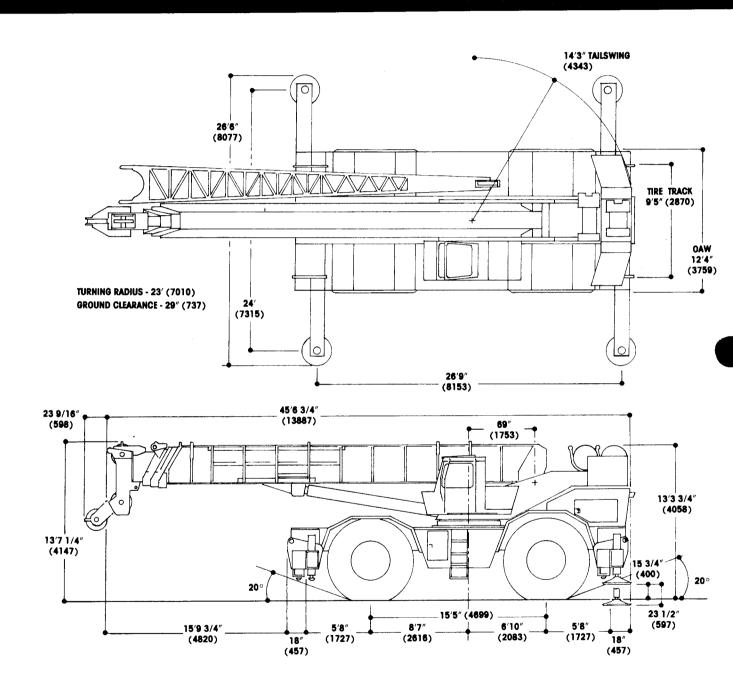
Frame	High strength alloy steel all welded box-type construction with integral outrigger housings and front/rear lifting, towing and tie down lugs.		Oscillation Lockouts	Automatic full hydraulic lockouts on rear axle permits oscillation only with boom centered over the front. Oscillation lockout overide control.	
Outrigger System	Hydraulic single stage double box telescopic beam and jack outriggers with integral holding valves. All steel fabricated quick release type		Tires		
Outrigger Controls	outrigger floats, 30.5" (775mm) diameter.  Located in cab on right side console requires two hand operation. Crane level indicator		Brakes	Dual braking system, full air operating on all wheels. Spring-applied, air released parking brake operating on all wheels.	
Engine	Detroit Diesel 6-71T six cylinder turbo-charged		Lights	Full lighting package including turn indicators, head, tail, brake and hazard warning lights.	
	water cooled diesel, 280 bhp (209 kw) (Gross) @ 2,100 RPM. Maximum torque 757	Maximum Speed	16.2 MPH (26.0 kph)		
Optional Engine	ff. lbs. (105 kg/m) @ 1,400 RPM.  CAT 3306TA six cylinder turbo-charged water cooled diesel, 262 bhp (195 kw) (Gross) @	Maximum Gradeability	77.2% (Theoretical based on 140,000 lbs. (63,492 kg) GVW. 33.25 x 25 tires, pump disengaged.		
	2,100 RPM. Maximum torque 740 ff. lbs. (102 kg/m) @ 1,400 RPM.		Gross Vehicle Weight & Axle	BASIC STANDARD MACHINE Front 70,050 lbs. (31,775 kgs) Rear 66,350 lbs. (30,046 kgs)	
rptional rngine	Cummins NT-855 six cylinder turbo-charged water cooled diesel, 250 bhp (186 kw) (Gross) @ 2,100 RPM. Maximum torque 750 ft. lbs. (104 kg/m) @ 1,500 RPM.		Loads Miscellaneous Standard Equipment	G.V.W. 136,400 lbs. (61,871 kgs)  Full width steel fenders, dual rear view mirrors, hookblock fiedown sling, electronic back-up alarm, light package, air dryer, fire inflation kit	
Fuel Tank Capacity	100 gallons (379 L)			hydraulic oil temperature gauge.	
Electrical System	Four 12 volt - maintenance free batteries, 475 CCA @ 0 degree F. 24 volt starting.		Optional Equipment	<ul><li>Hookblocks</li><li>Spare wheel assembly</li><li>Pintle hook front/rear</li></ul>	
Drive	4 x 4			* Tow winch - front mounted	
Steering	Fully inde Front: Rear:	pendent power steering: Full hydraulic controlled by steering wheel. Full hydraulic hand lever controlled. Provides infinite variations of 4 main steering modes - front only, rear only, crab and coordinated. Rear wheel steer indicator.		<ul> <li>Worklights</li> <li>Cab spotlight</li> <li>Low oil pressure, high water temp.</li></ul>	
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.			†Patented Grove feature or patent pending. *Denotes optional equipment.	
Axles	Front:	Drive-steer with differential and planetary reduction hubs (rigid mounted to the chassis).  Drive-steer with differential and			
		planetary reduction hubs, pivot			

mounted at the center of chassis frame, providing up to 12" oscilla-

\*No-spin differential on rear axle.

tion (305mm).

Optional:



Constant improvement and engineering progress makes it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include  $\varsigma$  standard equipment.

#### GROVE MANUFACTURING COMPANY

Division of Kidde, Inc

#### KIDDE

Shady Grove, Pennsylvania 17256-0021

Form No.: SBRT990-1187-10M Printed in U.S.A.