

ROUGH TERRAIN MOBILITY . . . An automatic lockout is provided to prevent rear suspension system oscillation whenever the boom is in other than the forward position. An optional no-spin differential for the rear axle is also available. Rear axle and hydraulic pump disconnects provide more efficiency while traveling.

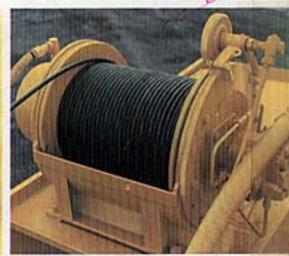
TURNTABLE-MOUNTED CAB DESIGNED FOR OPERATOR CONVENIENCEI . . . There is never a blind spot for the operator as the cab swings with the boom, keeping the operator facing the load at all times. The cab features a large hinged, tinted skylight, a removable front windshield and sliding side and rear windows for ventilation. Both driving and crane controls fall readily-to-hand and are arranged in a consistent Grove pattern for operator convenience.

SMOOTH PRECISE LIFTS . . . Grove planetary gear drive hoist, power up and down, is standard. Hoist and lowering speeds can be controlled from zero to maximum under all load conditions.

TOOL STORAGE is provided in a large covered storage well located forward on the chassis deck.

*THE KRUGER LOAD MOMENT INDICATOR AND ANTI-TWO BLOCK SYSTEM (optional) senses critical operational factors of the crane and compares them with rated lifting capacities while providing the operator with a continuous visual display of crane conditions by means of a large dash-mounted instrument with color-coded scale. An integral audio and visual warning system alerts the operator if an overload or two-block condition approaches, while the Grove automatic bypass circuitry diverts the oil flow from those functions which contribute to an overload or two-block condition, permitting operation of only those crane functions that will improve the situation.









rt60s

RIGID BOOMS ... are of welded-box design, fabricated of high strength steel purchased to Grove specifications. Boom design is clean with all boom telescoping cylinders and hydraulic hoses totally enclosed. Side adjustable, boom-mounted wear pads prevent metal-to-metal contact of the inner telescoping boom sections thus boom telescoping action is always smooth and precise during extension and retraction. Integral holding valves are standard on all telescoping cylinders.

Illustrated is the standard 70' (21.3m) boom. The optional 78' (23.8m) 4-section boom with 19' (5.8m) jib provides a tip height of 103' (31.4m) with a capacity of 6,200 lbs. (2812kg).

OPTIMUM STABILITY FOR 360° LIFTING CAPABILITY!...Individually controlled hydraulic outriggers in a nearly square configuration provide the necessary stability for high capacity lifting in a 360° arc. Outriggers are independently set or retracted by a special safety control arrangement which makes it virtually impossible to accidentally retract the outriggers once set. Double-box sliding beam outriggers and box-type vertical jacks protect the hydraulic cylinders from the elements and job-site damage. Mechanical pin locks and holding valves are standard features.

OUTSTANDING MANEUVERABILITY! . . . Tight quarter operation is a common occurrence for RT Cranes and that's why Grove RT Cranes offer the ultimate in maneuverability with full-power hydraulic steering on both axles. This permits 4-wheel coordinated, 4-wheel crabbing, 2-wheel (front or rear) steering for better maneuverability. Grove's system of independent control for each axle permits a greater degree of maneuverability with greater ease for the operator.







specifications



ENGINE SPECIFICATIONS

MAKE & MODEL TYPE **BORE & STROKE**

DISPLACEMENT HORSEPOWER (NET)

GOVERNED RPM TORQUE (NET)

ELECTRICAL SYSTEM COMBUSTION SYSTEM COOLING SYSTEM **FUEL CAPACITY** ALTERNATOR BATTERY AIR CLEANER AIR COMPRESSOR HOURMETER

Cummins Diesel V-504C 8 Cylinder OHV 4.625 in. x 3.75 in.

(117mm x 95mm) 504 cu. in. (8259cm3) 142 @ 2600 RPM

2600 RPM 303 lbs. ft. (42kg.m) @ 1800 RPM

12-volt, Negative Ground 4 Cycle, Naturally Aspirated

Liquid

50 Gallons (189 liters) 55 Amp, 12-volt

(2) 12-volt 1500 CCA @ 0°F

Dry Type 13.2 CFM (374 lpm) Yes

*Detroit Diesel 4-53N 4 Cylinder OHV 3.875 in. x 4.50 in. (98mm x 114mm) 212 cu. in. (3474cm3) 109 @ 2800 RPM 2800 RPM

236 lbs. ft. (33kg.m) @ 1800 RPM 12-volt, Negative Ground

2 Cycle, w/blower Liquid

50 Gallons (189 liters) 65 Amp, 12-volt (1) 12-volt 825 CCA @ 0°F

Dry Type 7.25 CFM (205 lpm) *Caterpillar Diesel 3208 8 Cylinder OHV 4.5 in. x 5.0 in. (114mm x 130mm) 636 cu. in. (10 422cm3) 122 @ 2500 RPM 2500 RPM 344 lbs. ft. (48kg.m)

@ 1100 RPM 12-volt, Negative Ground 4 Cycle, Naturally Aspirated Liquid

50 Gallons (189 liters) 55 Amp, 12-volt

(2) 12-volt 1500 CCA @ 0°F

Dry Type 12 CFM (340 lpm)

Yes

*Denotes optional equipment

SPEED AND GRADEABILITY

Yes

Forward Drive	Transmission Range	Gear Shift	Maximu MPH	m Speed KM/H	Max.Gradeability @ Stall %	Max. Tractive LB.	Effort At Stal KG.
4 Wheel Drive	Low	1st	2.7	4.3	87.3	32,515	14 749
4 Wheel Drive	Low	2nd	5.1	8.2	35.9	17,176	7791
4 Wheel Drive	Low	3rd	13.8	22.2	11.2	6,292	2854
2 Wheel Drive	High	1st	6.4	10.3	27.5	13,672	6202
2 Wheel Drive	High	2nd	12.1	19.5	13.1	7,210	3270
2 Wheel Drive	High	3rd	28.5	45.9	3.5	2,652	1203

NOTE: All performance data is based on standard machine and may vary plus or minus 10% due to variations in engine performance and vehicle weight.

WORKING WEIGHTS

Standard Machine	Total Weight		Axle Weight Distribution			
With	Lbs.	Kg.	Front		Rear	
			Lbs.	Kg.	Lbs.	Kg.
28-70 ft. (8.5m - 22.3m) boom	47,980	21 764	28,620	12 982	19,360	8782
*24-60 ft. (7.3m - 18.3m) boom	46,820	21 238	24,160	10 959	22,660	10 279
*24-78 ft. (7.3m - 23.7m) boom	48,425	21 966	27,400	12 429	21,025	9537

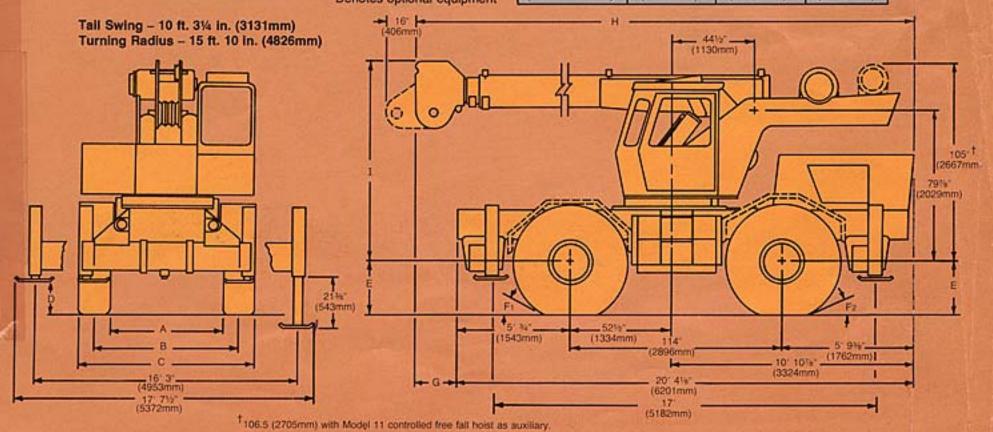
NOTE: Weights may vary plus or minus 3% due to manufacturing tolerances.

*Denotes optional equipment.

TIRE	A	В	С	D	E	F1	F2
16:00 x 24			95% in. (2429mm)			23°	19°
*20.5 x 25			103% in. (2619mm)				18°

*Denotes optional equipment

BOOM LENGTH	G	H	8 ft. 8¼ in. (2648mm)	
*24-60 ft. (7.3m – 18.3m)	11 ft. 2½ in. (3416mm)	31 ft. 6% in. (9617mm)		
28-70 ft.	15 ft. 2½ in.	35 ft. 6% in.	8 ft. 91/16 in.	
(8.5m - 21.3m)	(4636mm)	(10 836mm)	(2675mm)	
*24-78 ft.	11 ft. ¼ in.	31 ft. 45/16 in.	8 ft. 8¼ in.	
(7.3m – 23.7m)	(3359mm)	(9558mm)	(2648mm)	





SPECIFICATIONS

- BOOM 28 ft. 70 ft. (8.5m 21.3m), 3 section, full power telescoping *24 ft. 60 ft. (7.3m 18.3m), 3 section, full power telescoping. *24 ft. 78 ft. (7.3m 23.8m), 4 section, power telescoping. Two full power sections to 60 ft. (18.3m) plus an 18' (5.5m) fly section power extended and retracted from pinned position. Pendulum boom angle indicator. Integral holding valves on each telescoping cylinder. Boom telescope sections are individually controlled and supported on graphite impregnated nylatron wear pads. Side adjustable wear pads prevent metal-to-metal contact of inner boom sections.
- BOOM NOSE Three 11¼" tread dia. (286mm) sheaves mounted on heavy duty needle bearings. Removable pin type rope guards allow easy reeving. Rope dead ends on one side of boom nose. "(Single sheave 11¼" tread dia. (286mm) auxiliary boom nose mounted to main boom nose, with removable pin-type rope guard. For single part line work.)
- BOOM ELEVATION Dual 8¼" (210mm) bore double-acting cylinders with integral holding valves; 0° to 75° elevation.
- *LOAD MOMENT AND ANTI-TWO BLOCK SYSTEM (KRUGER) Audiovisual warning in combination with automatic by-pass of: hoist up, boom telescope out, and boom down functions.
- *JIBS 19 ft. (5.8m) "Stowaway" for 24 ft. 60 ft. (7.3m 18.3m) and 24 ft. 78 ft. (7.3m 23.8m) booms. 23 ft. (7.0m) "Stowaway" for 28 ft. 70 ft. (8.5m 21.3m) boom. All jibs have self-equalizing suspension and jib backstops.
- SWING Ball bearing swing circle, 360° continuous rotation. Grove planetary "Glide Swing" with foot-operated disc swing brake and cab-controlled positive (plunger type) turntable lock. Swing speed 3.1 RPM. (Non-free swing optional)
- CAB Turntable-mounted, full vision, all steel, fully enclosed with tinted, tempered glass throughout and hinged skylight: (windshield laminated). Left side door with lock, side sliding windows with locks. Full length control levers, fully adjustable operator's seat. Complete engine instrumentation and driving controls. Combination hand and foot throttle. All-crane superstructure and outrigger controls, 20,000 BTU diesel fuel heater, electric windshield wiper, domelight, front cab-mounted work lights, defroster fan, air hom, 3¾ lb. (1.7kg) dry-type fire extinguisher.
- CAB INSTRUMENTATION Engine oil pressure gauge, engine water temperature gauge, voltmeter, electric fuel gauge, air pressure gauge, transmission and torque converter oil temperature gauge, engine hourmeter, low air pressure visual warning. Hoist rotation indicator.
- OUTRIGGERS Hydraulic, double-box, integral with main frame; telescoping beams, enclosed vertical jacks with integral holding valves and mechanical pin locks. Independent or simultaneous control in-out-up-and-down. Outrigger controls in operator's cab. Sequence control arrangement virtually eliminates accidental outrigger actuation.

- MAIN FRAME All-welded construction with full depth longitudinals braced by cross-members. Frame reinforced at critical points to insure a rigid turntable mounting.
- TRANSMISSION AND TORQUE CONVERTER Engine-mounted converter with PTO for hydraulic pumps. Remote mounted full powershift transmission with rear axle disconnect.
- SPEEDS 6 forward and 6 reverse.
- AXLES Front: Planetary drive/steer type mounted rigid to frame.

 Rear: Planetary drive/steer type mounted to allow 0 in. to 9.5 in. (0 241mm) oscillation. (No spin rear axle optional.)
- OSCILLATION LOCKOUTS Automatic hydraulic on rear axle. Allows oscillation only with boom over front.
- SERVICE BRAKES Full air on all four wheels. Size: 201/4 in. x 4 in. (514mm x 102mm). Total lining area: 644 sq. in. (415cm²).
- PARKING BRAKES Front and rear axles equipped with "Fall Safe" spring set emergency and parking chambers.
- STEERING Front: Full power assist hydraulic control.

 Rear: Full hydraulic, tiller bar control. Independent front and rear steer
- control allows maximum "on the move" maneuverability.

 TIRES 16:00 x 24 16 ply tubeless, heavy duty grader.

 *20.5 x 24 20 ply tubeless, high flotation earth mover.
- *TOW WINCH Braden PD15 planetary, front-mounted, cab-controlled with 15,000 lb. (6804kg) single line pull and 145 FPM (44.2mpm) single line speed under full load (less rope and hook).

HYDRAULIC SYSTEM:

- RESERVOIR 82.6 gallon (312.6 liter) capacity, all-steel welded construction with integral baffles, clean out access and sight level gauge.
- FILTER Return line type with replaceable cartridge and by-pass protection 10 micron rating.
- PUMPS 3 main gear pumps, 112.5 GPM (426 lpm) combined capacity. Power steering pump 18.7 GPM (71 lpm) capacity. Pump disconnect lever operated from carrier deck.
- CONTROL VALVES Precision four-way double-acting with integral load check, main and circuit relief valves. Three individual valve banks permitting simultaneous independent control of three crane functions. Maximum operating pressure 2500 PSI. (175.8kg/cm²)
- OIL COOLER Full flow, fin and tube, oil to air.
- POWER DISTRIBUTION [Main holst, *auxiliary hoist, 46.5 GPM (176 lpm)]; [Boom elevation, rear steer, mid telescope, main hoist boost, 39.5 GPM (149.5 lpm)]; [Fly telescope, outrigger, swing, 26.5 GPM (100.3 lpm)].
- MISCELLANEOUS Front storage well, hydraulic and fuel step tanks, protecto seal fuel cap, right side rear view mirror, full engine hood.

*Denotes optional equipment.

HOIST SPECIFICATIONS

DESCRIPTION: Power up and down, equal speed, planetary reduction with integral automatic brake and hoist drum rotation indicator. *MAIN OR AUXILIARY HOIST *AUXILIARY HOIST MAIN HOIST Gearmatic Model 11 HOIST DATA SGECR Grove Model 15S-11B Grove Model 15H-16B (Controlled Free Fall) 12 in. dia. (305mm) 9 in. dia. (229mm) **Drum Dimensions** 12 in. dia. (305mm) 13 in. length (330mm) 11 in. length (279mm) 16 in. length (406mm) 17.5 in. dia. flange 17.5 in. dia. flange . 17.5 in. dia. flange (445mm) (445mm) (445mm) Performance: 290 FPM (88m/min) 355 FPM (108m/min) 200 FPM (61m/min) Max. Single Line Speed 9,145 lb. (4148kg) Max. Single Line Pull 9,165 lb. (4157kg) 9,165 lb. (4157kg) 675 ft. of 1/2 in. dia. rope **720 ft. of 1/2 in. dia. rope 489 ft. of 1/2 in. dia. rope Drum Rope (206m of 13mm) Storage Capacity (219.5m of 13mm) (149.1m of 13mm) 1/2 in. (13mm) 6x37 class -1/2 in. (13mm) 6x37 class -1/2 in. (13mm) 6x37 class -Permissible Single Line 7,200 lb. (3266kg) 7,200 lb. (3266kg) 7,200 lb. (3266kg) Rope Pull 1/2 in. (13mm) 19x7 class -1/2 in. (13mm) 19x7 class -1/2 in. (13mm) 19x7 class -6,150 lb. (2790kg) 6,150 lb. (2790kg) 6,150 lb. (2790kg)



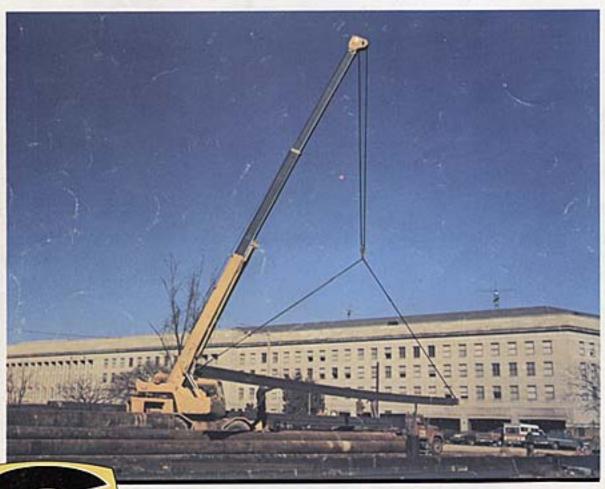
^{*}Denotes optional equipment

[&]quot;6th layer of rope not recommended for hoisting operations.



rt60s

Another high availability crane in the Grove complete line of rough terrain cranes. This high efficiency crane offers quick set-up . . . extraordinary maneuverability . . . big payloads over a wide working radii . . . no operator blind spots . . . high travel speeds . . . established reliability and less down time. They are Grove values measurable in dollars and cents performance.





HYDRAULIC CRANES

GROVE MANUFACTURING COMPANY

KIDDE

SHADY GROVE, PA 17256 U.S.A.