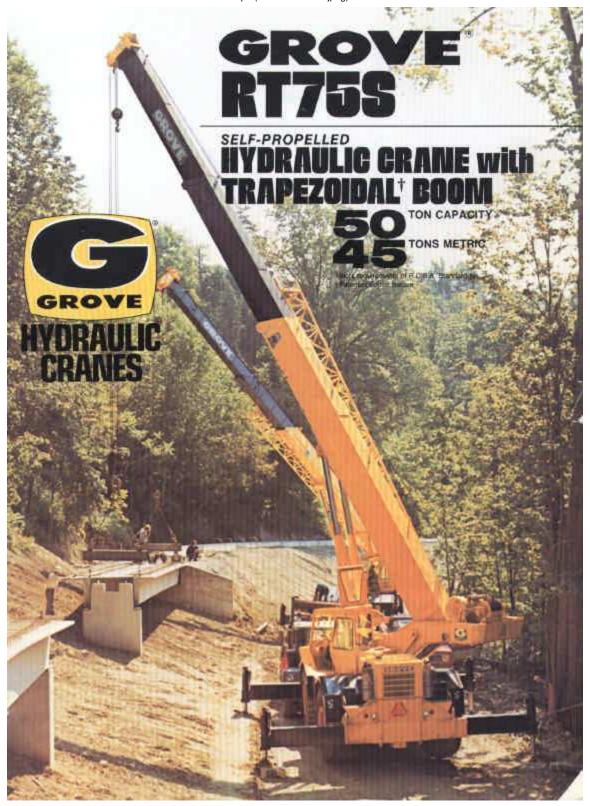
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SPECIFICATIONS

- **BOOM** 34 ft. 116 ft. (10.4m 35.4m), 4-section boom; 2 full power trapezoi-OM - 34 ft. - 116 ft. (10.4m - 35.4m), 4-section boom; 2 full power trapezon-dal sections to 84 ft. (25.6m) plus a 32 ft. (9.7m) "Swingaway" lattice extension. Integral check valves on each telescoping cylinder. '35 ft. - 142 ft. (10.7m - 43.3m), 5-section boom, 2 full power and 1 power pinned trape-zoidal sections to 110 ft. (33.5m) plus a 32 ft. (9.7m) "Swingaway" lattice extension. Integral check valves on each telescoping cylinder. Boom telescope sections are individually controlled. Each boom section is supported
- on graphite impregnated nylatron wear pads.

 BOOM NOSE Four 15 in. (381mm) tread diameter sheaves mounted on heavy duty tapered roller bearings. Removable pin type rope guards permit easy reeving. Rope dead ends on each side of the boom nose. "(Single sheave (15 in. or 381mm tread dia.) auxiliary boom nose mounted to main boom nose with removable pin type rope guard for single part line
- BOOM ELEVATION Dual double-acting hydraulic cylinders with integral holding valves; elevation from 4° to 76°. Combination controls provided for
- *LOAD MOMENT AND ANTI-TWO BLOCK SYSTEM (KRUGER) Audiovisual warning in combination with Grove control lever lockout of: hoist up, boom telescope out, and boom down functions.

 *JIB – A 24 ft. (7.3m) A-frame section which attaches to the sheave shaft of the
- 32 ft. (7.5m) swingaway lattice boom extension. The jib can be offset from a minimum of 5° to a maximum of 30° and includes mast, pendant lines, single-rope self-equalizing suspension; no stowable.

 SWING Ball bearing swing circle, 360° continuous rotation. Grove Planetary "Glide Swing' with foot operated disc swing brake, hand operated plunger type turntable lock. (*Non-free swing optional) swing speed 2.6 RPM.
- COUNTERWEIGHT Removable, bolted to turntable mast, stationary. Weight
- varies with hoist configurations . . . 5,300 lb. (2404kg) with no auxiliary, 4,500 lb. (2041kg) with model 15S or 11 SGECR auxiliary, 3,700 lb. (1678kg) with model 32S auxiliary hoist.

 CAB Turntable-mounted on vibration and sound-absorbing rubber grommets, full vision, all steel, fully enclosed, acoustically treated with tinted tempered safety glass throughout (removable front windshield with storage provision and hinged skylight are tinted laminated safety glass), sliding left side door and sliding right side window for ventilation. Full length control levers, fully adjustable operator's seat. Complete engine instrumentation and operating controls. Combination hand and foot controls for engine throttle operating controls. Combination hand and toot controls for engine throttle and boom elevation. All-crane superstructure and outrigger controls, outrigger sight leveling bubble, electronic boom angle indicator with high and low angle presets and audio-visual warning, 20,000 BTU diesel fuel heater, forced hot air defroster, electric windshield wiper, domelight, dashight, air horn, front cab mounted worklights, door and window locks,
- 3¾ lb. (1.7kg) dry type fire extinguisher.
 CAB INSTRUMENTATION Engine oil pressure gauge, engine water temperature gauge, vollmeter, electric fuel gauge, electric tachometer, air pressure gauge, transmission and torque converter oil temperature gauge.
- OUTRIGGERS Hydraulic double-box integral with main frame; telescoping beams, vertical jacks with integral check valves and mechanical spin locks on each vertical jack to secure outrigger jacks at any level. Beams extend to

- 21 ft. (6.4m) centerline-to-centerline, retract to 9 ft. 5 in. (2.9m). Indeper dent or simultaneous control in-out-up-and-down. Outrigger controls in operator's cab. Sequence control arrangement eliminates accidental actuation. 24 in. dia. (610mm) high-strength steel floats with storage racks.
- MAIN FRAME All-welded construction with full denth longitudinals braced by cross-members. Frame reinforced at critical points to insure a rigid turn table mounting. Front and rear lifting, towing and tie down lugs are integral with the main frame
- TRANSMISSION AND TORQUE CONVERTER Engine-mounted converter

 1.82:1 stall ratio with PTO for hydraulic pumps. Remote mounted full wershift transmission with rear axle disconnect.
- SPEEDS 6 forward and 6 reverse.
- AXLES Front: Planetary drive/steer mounted rigid to frame. Rear: Planetary drive/steer pivot mounted to allow 0 in. to 10 in. (254mm) oscillation (no-spin
- optional).

 OSCILLATION LOCKOUTS Automatic hydraulic on rear axle. Allows oscilla-
- OSCILLATION LOCKOUTS Automatic hydraulic on real axie. Automation only with boom over front.

 SERVICE BRAKES Full air on all four wheels.
 Size: 20¼ in. x 4 in. (514mmx 102mm) with 36 sq. in. (232cm²) chambers.
 PARKING BRAKES Front and rear axles equipped with spring set airreleased emergency/parking chambers.

 STEERING Front: Power assist hydraulic control.

- STEERING Front: Power assist hydraulic control.

 Rear: Full hydraulic, tiller bar control. Independent front and rear steer control allows maximum maneuverability.

 TIRES 29.5 x 25 22 ply wide base; earth-mover type, tubeless. *26.5 x 25 26 ply and 29.5 x 25 28 ply wide base; earth-mover type, tubeless.

 *TOW WINCH Braden PD 15 planetary, front-mounted, cab-controlled, 15,000 lb. (6804kg) single line pull and 59 ft./min. (18m/min.) single line speed. Drum rope storage capacity is 340 ft. (103.6m) of % in. (16mm) dia. rope (less rope and hook).

 HYDRAULIC SYSTEM:

 RESERVOIR 154 gallon (583 liter) capacity, all-steel welded construction

- RESERVOIR 154 gallon (583 liter) capacity, all-steel welded construction with integral baffles, clean-out access and exterior oil level gauge. FILTER Full flow return line replaceable cartridge with by-pass protection
- and filter by-pass indicator. 25 Micron rating.

 PUMPS 4 main gear pumps. 146 GPM capacity (553 LPM). Power steering pump 18.7 GPM capacity (71 LPM). Pump disconnect level operated from carrier deck.
- CONTROL VALVES Precision four-way double-acting with integral load check, main and circuit relief valves. Four individual valve banks
- cneck, main and circuit relief valves. Four individual valve banks permitting simultaneous independent control of four crane functions. Maximum operating pressure 2500 PSI (17.58kg/cm²).

 OIL COOLER Full flow, fin and tube, oil to air.

 POWER DISTRIBUTION (Main hoist, "auxiliary hoist boost) (Boom elevation, mid telescope, main hoist boost, "auxiliary hoist) (Fly telescope, rear steer, boom elevation boost) (Swing) "Model 32S-1716A
- MISCELLANEOUS STANDARD EQUIPMENT Complete light package, tool box and storage well, fenders, hook-block tie down, ether injection cold starting aid, chassis mounted rear view mirrow, asbestos wrapped mufflers.

*Denotes optional equipment

HOIST SPECIFICATIONS

Ill and speed ranges. Powe	Il circuitry and two motors provide both high line er up and down, equal speed, planetary reduction e. Hoist drum rotation indicator is standard.	DESCRIPTION: Power up and down, equal speed, planetary reduction with integral automatic brake. Hoist drum rotation indicator is standard.				
HOIST DATA MAIN and/or "AUXILIARY HOIST GROVE MODEL 32S-1716A		*AUXILIARY HOIST GROVE MODEL 15S-16B	*AUXILIARY HOIST (CONTROLLED FREE FALL) MODEL 11 SGECR			
Drum Dimensions	16 in. diameter (406mm) 16 in. length (406mm) 24 in. flange dia. (610mm)	12 in. diameter (305mm) 16 in. length (406mm) 17.5 in. flange dia. (445mm)	9 in. diameter (229mm) 13 in. length (330mm) 17.5 in. flange dia. (445mm)			
Performance	High Speed Range Single line speed 525 FPM (160m/min) Single line pull 8,400 lbs. (3810kg) Low Speed Range Single line speed 265 FPM (80.8m/min) Single line pull 6,800 lbs. (7620kg)	Single line speed Single line pull 206 FPM 9, 165 lbs. (63m/mln) (4157kg)	Single line speed Single line pull 290 FPM 9,145 lbs. (88.4m/min) (4148kg)			
Drum Rope Storage Capacity	**650 Ft. of ¾ in. dia. rope (198.1m of 19mm)	720 ft. of ½ in. dia. rope (219.5m of 13mm) 480 ft. of % in. dia. rope (146.3m of 16mm)	675 ft. of ½ in, dia. rope (205.7m of 13mm)			
Permissible Single Line Rope Pull	% in. (19mm) 6 x 41 class – 14,605 lbs. (6625kg) % in. (19mm) 19 x 7 class – 13,700 lbs. (6214kg)	½ in. (13mm) 19 x 7 class – 6,150 lbs. (2790kg) ½ in. (13mm) 6 x 37 class – 7,200 lbs. (3266kg) % in. (16mm) 19 x 7 or 6 x 41 class – 7,926 lbs. (3595kg)	½ in. (13mm) 19 x 7 class – 6,150 lbs. (2790kg) ½ in. (13mm) 6 x 37 class – 7,200 lbs. (3266kg)			

**6th layer of rope not recommended for hoisting operations



The name Grove and the Trapezoidal shape are registered trademarks of Grove Manufacturing Co.

SPECIFICATIONS



ENGINE SPECIFICATIONS

MAKE & MODEL	Detroit Diesel 6V-53N	*Cummins Diesel V555-C200	*Caterpillar 3208 Diesel
TYPE	6 Cylinder O.H.V.	8 Cylinder O.H.V.	8 Cylinder O.H.V.
BORE & STROKE	3.875 in. x 4.50 in.	4.625 in. x 4.125 in.	4.5 in. x 5.0 in.
	(98mm x 114mm)	(117mm x 105mm)	(114mm x 127mm)
DISPLACEMENT	318 cu.in. (5212cm3)	555 cu.in. (9096cm³)	636 cu.in. (10 424cm³)
HORSEPOWER (NET)	170 @ 2500 RPM	176 @ 2600 RPM	178 @ 2600 RPM
GOVERNED RPM	2500	2600	2600
TORQUE (NET)	392 lbs. ft. (55kg.m)	380 lbs. ft. (54kg.m)	468 lbs. ft. (65kg.m)
	@ 1500 RPM	@ 1850 RPM	@ 1200 RPM
ELECTRICAL SYSTEM	12-Volt, Negative Ground	12-Volt, Negative Ground	12-Volt, Negative Ground
COMBUSTION SYSTEM	2 Cycle with blower	4 Cycle, Naturally Aspirated	4 Cycle, Naturally Aspirated
COOLING SYSTEM	Liquid	Liquid	Liquid
FUEL CAPACITY	60 Gallon (227 liters)	60 Gallon (227 liters)	60 Gallon (227 liters)
ALTERNATOR	65 Amp, 12-volt	58 Amp, 12-volt	55 Amp, 12-volt
BATTERY	(2) 204 A.H., 12-volt	(2) 204 A.H., 12-volt	(2) 204 A.H., 12-volt
AIR CLEANER	Dry Type	Dry Type	Dry Type
AIR COMPRESSOR	7.25 CFM	13.2 CFM	12 CFM
HOURMETER	Yes	Yes	Yes

*Denotes Optional Equipment

SPEED AND GRADEABILITY

Forward Drive	Transmission Range	Gear Shift	Maximum Speed MPH KM/H		Gradeability @ Stall (%)	Tractive Effort At Stall LBS. KG.	
4 Wheel Drive	Low	1st	2.1	3	74.8	44,311	20 099
4 Wheel Drive	Low	2nd	3.9	6	32.3	23,407	10 617
4 Wheel Drive	Low	3rd	10.0	16	10.0	8,574	3889
2 Wheel Drive	High	1st	4.8	8	24.8	18,633	8551
2 Wheel Drive	High	2nd	8.8	14	11.8	9,826	4457
2 Wheel Drive	High	3rd	21.8	35	3.1	3.615	1639

NOTE: All performance data is based on standard machine and may vary plus or minus 10% due to variations in engine performance. Gradeability values above 45% are theoretical. Machine should be operated within limits of engine crank case design, 15° (GM), 30° (Cat), 40° (Cummins). **WORKING WEIGHTS**

Standard Machine	Total Weight		Axle Weigh Front		t Distribution Rear	
With	Lbs.	Kg	Lbs.	Kg	Lbs.	Kg
34-116 ft. (10.4-35.4m) Boom 35-142 ft. (10.7-4.33m) Boom	73,689 76,145	33 425 34 539	39,566 43,808	17 947 19 871	34,123 32,337	15 478 14 668

DIMENSIONS

TIRE SIZE	"A"	"B"	"C"	"D"	"E"	"F"	7.4
29.5 x 25		98½ in. (2502)	10 ft. 11 in. (3327)	33 in. (838)	14¼ in. (362)	21 in. (533)	
26.5 x 25	67 in. (1702)		10 ft. 8 in. (3251)	31 in. (787)	12¼ in. (311)	19 in. (483)	

◆ 34 ft 84 ft.	16 ft. 11 in.	43 ft. 21/4 i
(10.36m-25.60m)	(5156)	(13 164)
35 ft 110 ft.	18 ft. 1 in.	44 ft. 4 in.
(10.67m-33.53m)	(5512)	(13 513)

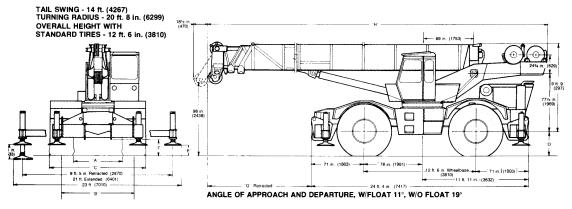
"G"

"H"

Fender Width - 10 ft. 11 in. (3327)

• 32 ft. (9754) extension stowed

BOOM LENGTH



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 all standard equipment.

Note: Figures in parentheses () are metric equivalents expressed in millimeters.













FEATURES

an important factor in Grove cab design, is lisustrated at left. Notice the operator's unobstructed view of the load when the skylight is raised and the windshield is removed. There is no overhead cross-member to interfere with visibility. Also, the turntable mounting faces the operator towards the load at all times. Controls are conveniently arranged to assure miximum ease in performing all crane functions. Cab is mounted on vibration and sound absorbing nabber grammets and interior is acoustically treated.

ALL-WELDED FRAME of box-beam construction with full depth longitudinals, braced by cross-members and with integral outrigger boxes assures a strong rigid lifting piatform.

- LEVEL QUICKLY ON ANY TERRAIN with the long threat vertical jacks which are titted with integral check valves to retain the jacks in their extended position, in addition to the integral check valve and for added safety, each vertical jack cylinder incorporates the exclusive Grove screw-lock which permits the outrigger jacks to be mechanically secured in any position throughout its stroke. Outriggers are of the double-box beam type and provide a spread of 21 ft. (6.4m). Durable, but lightweight high-strength steel floats are stored in compartments on each side of the machine.
- TWO SPEED HOIST _____ a Grove innovation which permits both high line pull and high line speed without changes in lagging or gearing. At the flick of the electropheumatic speedshift, the operator can change from maximum line pull (16,800 lbs.) (7 620kg) to top line speed (525 fpm) (160m/min.) On the R175S, the optional auxiliary hoist can be the same model as the main hoist providing dual capability.
- TOOL STORAGE is provided in a large storage compartment located forward on the chassis.

EASY MANEUVERABILITY is provided by 4-wheel steering and 4-wheel drive. To enhance flotation and traction characteristics for rough terrain operation, the RT75S has wide base lug-type warthmover tires.

 EASIER REEVING ... removable pin-type-rope guards and negative boom angle permit quick and easy ground level reeving and work on hook block.

THE KRUGER LOAD MOMENT AND ANTI-TWO BLOCK SYSTEM (Optional) measures critical operational factors reliative to rated capacity and provides a continuous visual display of conditions for the load. An easy-to-read color coded instrument indicates the approach of an overload or two-block condition and should overload or two-block occur, an audio-visual warning alerts the operator; the Grove "control lever lockout system" returns the control levers to neutral and permits the use of only those prane functions that will correct the

OTHER FEATURES Include: integral check valves or holding valves on all load-bearing cylinders power-shift transmission with 6 speeds forward and raiverse automatic oscillation lock-out, and to isolate an reduce operating noise levels, the control cab, engine-transmission package, and engine hood are all rubber shock-mounted.

The Projection Room, Two Discoil Name, and Versial Jack Lock are personnel Disco Names.

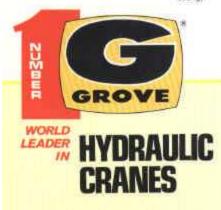
p6 (1481x2108x24b jpeg)



The "SwingAwey" lattice boom extension stows laterally along side the boombase section and swings easily into working position to provide 121 (36.9m) tip height with the standard boom and 147' (44.8m) up height with the optional boom.



In addition to excellent mobility on all types of terrain, the HT75S leatures towoverall height, low center of gravity, excellent ground clearance and a GVW of approximately 74,000 bs. (33 566kg)



GROVE Changing of Walter Kode & Company, Inv KIDDE

GROVE MANUFACTURING CO., SHADY GROVE, PA. 17256 U.S.A. CABLE: GROVEMFG/TELEX: BA3306 Prizzed in U.S.A.

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