

GROVE®

**FULL HYDRAULIC
SELF-PROPELLED CRANE**

MODEL RT58 14-Ton Capacity

FEATURES

- ★ 28,000 lbs. (12,700kg). Capacity at 10 ft. (3.05m)
- ★ 24-60 ft. (7.32-18.29m) Power Telescoping Boom
- ★ Power Shift Transmission—6 speeds forward & reverse
- ★ Hi-Lo range selection automatically shifts 4-Wheel drive—2-Wheel drive
- ★ 4-Wheel Hydraulic Power Assist Steering & Brakes
- ★ 75° Maximum elevation
- ★ 360° Continuous rotation
- ★ Automatic Hydraulic Rear Axle Oscillation Lockouts
- ★ Hydraulic pump disconnect



SPECIFICATIONS

BOOMS - 24 ft. - 60 ft. (7.32-18.29), 3 section full power telescoping.

*18 ft. - 42 ft. (5.49-12.80m), 3 section full power telescoping.

*21 ft. - 51 ft. (6.40-15.54m), 3 section full power telescoping.

Pendulum boom angle indicators on both sides of boom. 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 to eliminate metal to metal contact of inner boom sections.

BOOM NOSE - Two sheaves mounted on heavy duty needle bearings. Removable pin type rope guards allow easy reeving. Rope dead end on one side of boom nose.

BOOM ELEVATION - Dual double-acting hydraulic cylinders with holding valve. Elevation from 0° to 75°.

***JIBS** - 14 ft. (4.27m) "Stowaway" for 18 ft. - 42 ft. (5.49-12.80m) boom.

17 ft. (5.18m) "Stowaway" for 21 ft. - 51 ft. (6.40-15.54m) boom.

20 ft. (6.10m) "Stowaway" for 24 ft. - 60 ft. (7.32-18.29m) boom.

All jibs have self-equalizing suspension and jib backstops.

SWING - Ball bearing swing circle, 360° continuous rotation, "Grove Planetary Swing" with automatic disc swing brake.

***CAB** - Frame mounted, all steel, full vision, fully enclosed with fixed tinted skylight, laminated safety glass windows with locks, electric windshield wiper, hot water heater, fan-type defroster, domelight, left and right hand doors with locks. Right and left side sliding vent windows with locks.

***OPEN CAB** - Frame mounted, all steel, full vision with fixed tinted skylight, laminated safety glass windows, electric windshield wiper, and domelight.

CAB INSTRUMENTATION - Engine oil pressure gage, engine water temperature gage, electric fuel gage, transmission and torque converter oil temperature gage, engine hourmeter, voltmeter.

OUTRIGGERS - Hydraulic, front and rear, cantilever type with integral check valves. Sequence control arrangement eliminates accidental actuation.

MAIN FRAME - 18 in. (457mm) rectangular box section, all welded and reinforced construction.

TRANSMISSION AND TORQUE CONVERTER - Engine mounted converter, 2.54:1 stall ratio with PTO for hydraulic pumps. Remote mounted full powershift transmission with rear axle disconnect.

SPEEDS - 6 forward and 6 reverse.

AXLES - Front: Planetary drive with dual steering cylinders mounted rigid to frame. Rear: Planetary drive with dual steering cylinders mounted to allow 0 in. to 12 in. (0-305mm) oscillation. (No-spin optional)

OSCILLATION LOCKOUTS - Automatic hydraulic on rear axle. Allows oscillation only with boom over front.

SERVICE BRAKES - Power assist hydraulic on all wheels. Size - 17 1/4 in. x 4 in. (438mm x 102mm). Total lining area 552 sq. in. (3,562cm²).

PARKING BRAKES - Mechanical on driveline. Hand lever control. Size - 13 3/8 in. x 2 in. (340mm x 51mm)

STEERING - Front: Power assist hydraulic control. Rear: Full hydraulic; tiller bar control. Independent front and rear steer control allows maximum "On-the-Move" maneuverability.

TIRES - 17.5 x 25 - 14 ply, Power Grader Lug (nylon) tubeless.

*14.00 x 24-16 ply, Power Grader Lug (nylon) tubeless.

HYDRAULIC SYSTEM:

RESERVOIR - 82.6 gallon (312.6) capacity, all steel welded construction with integral baffles, sight level gage.

FILTER - Return line type, full flow with by-pass protection and replaceable cartridge. 10 micron rating.

PUMPS - Three main gear pumps, 112.5 GPM (426 LPM) capacity. Manually operated pump disconnect. Separate pump for front steer - 18.7 GPM. (71LPM)

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)

POWER DISTRIBUTION - (Main hoist - outrigger) (Swing - telescope mid and fly - rear steer) (Boom elevation - auxiliary hoist - accessory) (Front steer).

MISCELLANEOUS STANDARD EQUIPMENT - Tool box integral with fuel tank, cab guard, 3 3/4 lb. (1.7kg) fire extinguisher, electric horn, protecto seal fuel cap, full engine hood.

HOIST SPECIFICATIONS

DESCRIPTION: Power up and down, equal speed, planetary reduction with integral automatic brake.	
HOIST DATA	GROVE MAIN HOIST MODEL 15S-11A
Drum dimensions	12 in. (305mm) diameter 11 in. (279mm) length 17.5 in. (445mm) diameter flange
Performance	Single line speed 200 FPM (61m/min.) (Max.) Single line pull 9,165 lb. (4157kg) (Max.)
Drum Rope Storage Capacity	**485 ft. (147.83m) of 1/2 in. (13mm) Rope (Max.)
Permissible Single Line Rope Pull	1/2 in. (13mm) 6x37 - 7,200 lb. (3266kg) 1/2 in. (13mm) 19x7 - 6,150 lb. (2790kg)

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

ENGINE SPECIFICATIONS

MAKE & MODEL	Ford 300	*GM4-53N	*Cummins V-378-C155
TYPE	6 cylinder gasoline	4 cylinder diesel	6 cylinder O.H.V. diesel
BORE & STROKE	4.00 in. x 3.98 in. (102mm x 101mm)	3.875 in. x 4.50 in. (98mm x 114mm)	4.625 in. x 3.75 in. (117mm x 95mm)
DISPLACEMENT	300 cu. in. (491cm ³)	212 cu. in. (3474cm ³)	378 cu. in. (6194cm ³)
HORSEPOWER (NET)	123 @ 2800 RPM	112 @ 2800 RPM	125 @ 2800 RPM
GOVERNED RPM	2800	2800	2800
TORQUE (NET)	253 @ 1800 RPM	257 @ 1800 RPM	260 @ 1925 RPM
ELECTRICAL SYSTEM	12-volt, Neg. ground	12-volt, Neg. ground	12-volt, Neg. ground
COMBUSTION SYSTEM	4 cycle, naturally aspirated	2 cycle w/blower	4 cycle, naturally aspirated
COOLING SYSTEM	Liquid	Liquid	Liquid
FUEL CAPACITY	49 gallons (185 liters)	49 gallons (185 liters)	49 gallons (185 liters)
ALTERNATOR	38 AMP, 12-volt	55 AMP, 12-volt	58 AMP, 12-volt
BATTERY	(1) 62 A.H., 12-volt	(1) 204 A.H., 12-volt	(2) 204 A.H., 12-volt
AIR CLEANER	Oil Bath	Dry Type	Dry Type
HOURLY METER	Yes	Yes	Yes

SPEED & GRADEABILITY

FORWARD DRIVE	TRANSMISSION RANGE	GEAR SHIFT	MAXIMUM SPEED (MPH)		GRADEABILITY AT STALL (%)	TRACTIVE EFFORT AT STALL (LBS.)	
			MPH	Km/h		Lbs.	Kgs.
4 Wheel Drive	Low	1st	2.2	3.54	82	33,410	15,155
4 Wheel Drive	Low	2nd	4.2	6.76	42	17,651	8,006
4 Wheel Drive	Low	3rd	12.5	20.1	13	5,989	2,717
2 Wheel Drive	High	1st	5.3	8.52	34	14,121	6,405
2 Wheel Drive	High	2nd	10.1	16.25	17	7,439	3,374
2 Wheel Drive	High	3rd	29.5	47.46	4	2,537	1,151

NOTE: All performance data based on standard machine with (GM4-53N) and may vary plus or minus 10% due to variations in engine performance.

WORKING WEIGHTS

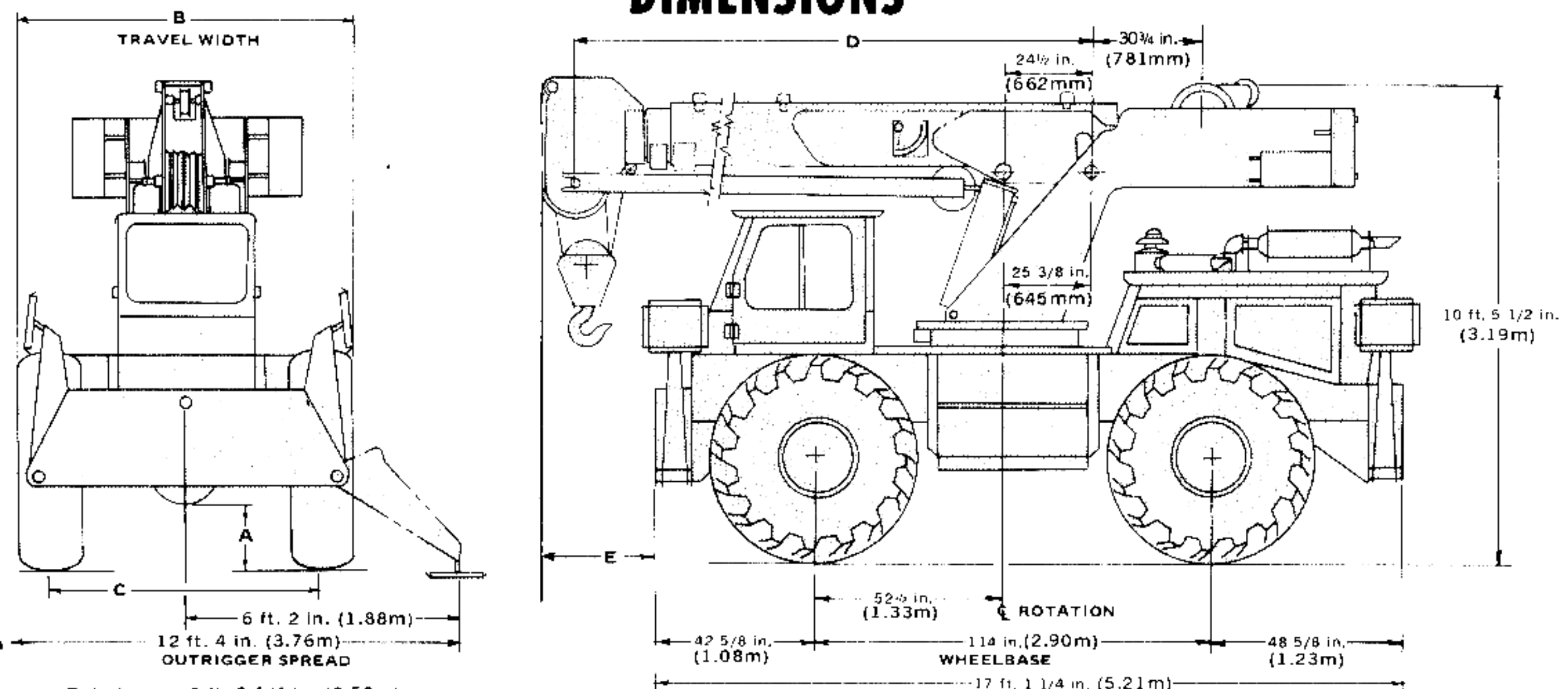
STANDARD MACHINE WITH	TOTAL WEIGHT		AXLE WEIGHT DISTRIBUTION			
			FRONT		REAR	
	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.
18-42 ft. (5.49-12.8m) BOOM	36,780	16,683	17,080	7,747	19,700	8,936
21-51 ft. (6.4-15.54m) BOOM	38,490	17,459	19,850	9,004	18,640	8,455
24-60 ft. (7.32-18.29m) BOOM	38,800	17,600	22,800	10,342	16,000	7,258

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

*DENOTES OPTIONAL EQUIPMENT

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice.

DIMENSIONS



TIRE SIZE	A	B	C	BOOM	D	E
14.00 x 24	16 3/8 in. (416mm)	96 in. (2,44m)	79 1/2 in. (2,02m)	18 ft. - 42 ft. (5.49 - 12.80m)	17 ft. 7 1/2 in. (5.37m)	8 ft. 4 in. (2.54m)
17.5 x 25	15 1/4 in. (387mm)	96 in. (2,44m)	77 1/2 in. (1,97m)	21 ft. - 51 ft. (6.40 - 15.54m)	20 ft. 7 1/2 in. (6.29m)	11 ft. 4 in. (3.54m)
				24 ft. - 60 ft. (7.32 - 18.29m)	23 ft. 7 1/2 in. (7.20m)	14 ft. 4 in. (4.37m)

MORE PROFITABLE MORE VERSATILE for a wider variety of lifting & handling jobs!

THE PREFERENCE FOR GROVE CRANES among profit-minded users reflects the users need for the versatility and advanced design engineering offered in all Grove Hydraulic Cranes. They add up to profit-making performance . . . a measurable value that tells him he is getting his money's worth on his Grove Crane investment. That's why the smart crane buyers have made Grove their NUMBER ONE CHOICE.

A FULL LINE OF HYDRAULIC CRANES . . . in addition to a full line of rough terrain cranes, Grove also offers a complete line of carrier-mounted cranes including a 125-ton (113.4mt) model with a boom tip height of 267' (81.4m). Ask your Grove Distributor for details.



HYDRAULIC CRANES

GROVE MANUFACTURING COMPANY
Division of Walter Kidde & Company, Inc.

KIDDE

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MAXIMUM COUNTERWEIGHT EFFECTIVENESS . . .
The fixed counterweight, an original Grove design concept now copied by many, not only improves the efficiency of the crane but also permits a full sized, comfortable operator's cab.

Grove RT58 self-propelled hydraulic cranes are equally at home on rough terrain construction jobs, in-plant rigging jobs, or on industrial material handling jobs. The low profile and compact design, high angle of boom elevation, telescoping and swing action, plus 4-wheel drive and steer maneuverability permit safe, efficient crane operation in areas which would restrict the use of mechanical cranes.

Grove booms are of welded box design fabricated of high strength steel. Boom design is clean with all boom telescoping cylinders and hydraulic hoses totally enclosed. Telescoping action is always smooth and precise.

