

**MORE VERSATILE
MORE PROFITABLE**

**for a wider
variety of lifting
& handling jobs!**

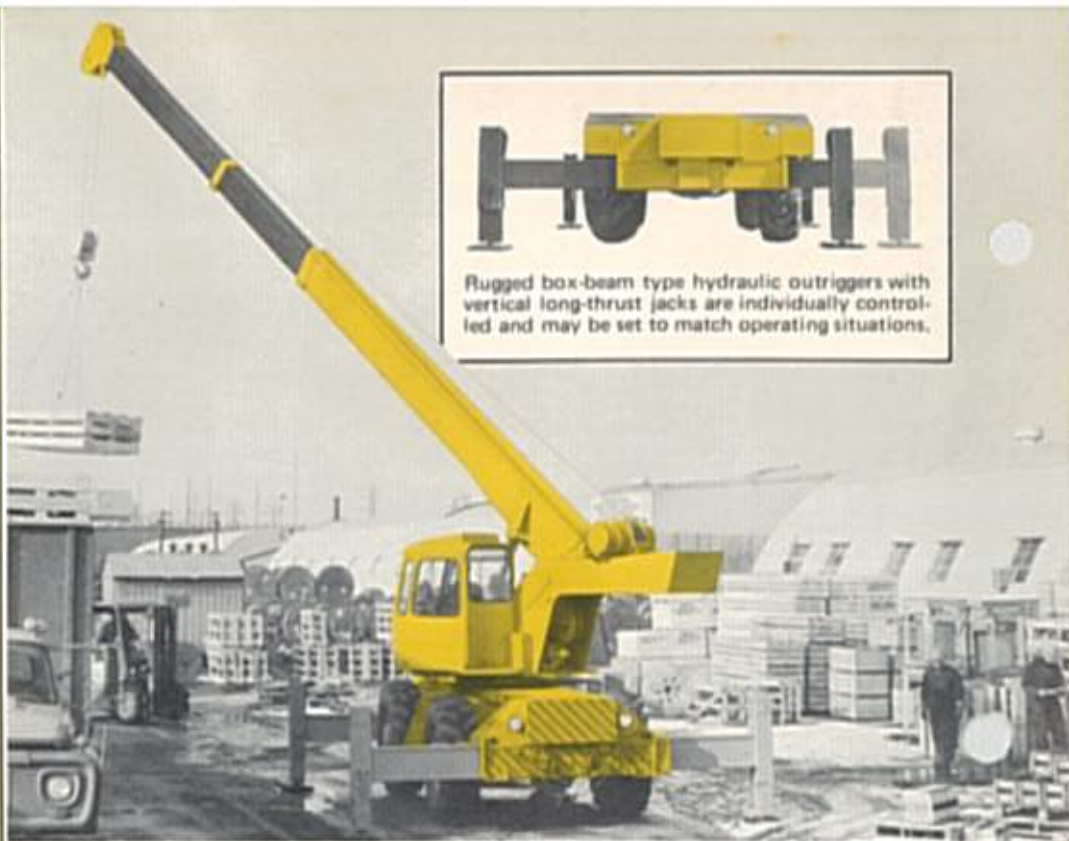
THE PREFERENCE FOR GROVE CRANES among profit-minded crane users reflects the users need for the versatility and advanced design engineering offered in all Grove Hydraulic Cranes. They add up to profit making performance, a measurable value that tells him he is getting his money's worth on his Grove Crane 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 self-propelled rough terrain cranes, Grove also offers a complete line of Carrier-Mounted cranes in capacities from 10-tons through 60-tons, with a broad selection of boom-and-jib combinations for each model offering unsurpassed reach capabilities in a given capacity range.



**HYDRAULIC
CRANES**

GROVE MANUFACTURING COMPANY
A Division of Walter Kidde & Company, Inc.
Shady Grove, Pa. 17258



Rugged box-beam type hydraulic outriggers with vertical long-thrust jacks are individually controlled and may be set to match operating situations.

ADDITIONAL FEATURES

BOOM & JIB OPTIONS

Main Boom	Main Boom Tip Height	Jib Length	Tip Height with Jib
*21'-51"	57'	16'	73'
*24'-60"	66'	19'	85'
28'-70"	76'	23'	99'
*24'-78"	85'	19'	103'

- FREE-FALL HOIST*
- HYDRAULIC CLAM ATTACHMENT*
- CHOICE OF 4 ENGINES
- THREE TIRE OPTIONS

*Optional equipment



GROVE®

FULL HYDRAULIC
SELF-PROPELLED CRANE

**MODEL
RT59S**
15-Ton Capacity

FEATURES

- 30,000 lbs. Capacity
- Turntable — mounted cab swings with the boom
- 103' Maximum tip height with jib
- Hydraulic double-box sliding beam outriggers and box-type vertical jacks are independently controlled from cab. Outrigger stance is nearly square
- Four-wheel drive . . . four-wheel steer with four steering modes . . . four-wheel brakes

Meets requirements of
P.C.S.A. Standard No. 2





SPECIFICATIONS

BOOM - 21 ft. - 51 ft., 3 Section, Full Power Telescoping
 *24 ft. - 60 ft., 3 Section, Full Power Telescoping
 *28 ft. - 70 ft., 3 Section, Full Power Telescoping
 *24 ft. - 78 ft., 4 Section, Power Telescoping, Two Full Power Section, Fly Section Power extended and retracted from Pinned Position
 Integral Safety Holding Valves on each Telescoping Cylinder.

BOOM NOSE - Three sheave boom nose, weld on type with integral cable guards.

BOOM ELEVATION - Twin double-acting cylinders with Safety holding valves - 0° to 75° angle.

***JIBS** - 16 ft. Stowaway type. - for 21-51 Boom
 19 ft. Stowaway type. - for 24-60 Boom
 23 ft. Stowaway type. - for 28-70 & 24-78 Boom
 Single cable, self-equalizing suspension.

SWING - 360° continuous rotation, ball bearing swing circle, external pinion, bull gear integral with swing circle, speed 2.5 RPM, Automatic Swing Brake, integral with Swing Control Lever, Manual Swing House Lock (plunger type) for normal travel position.

HYDRAULIC SYSTEM - Main Pump - 3 Section gear type, 112 GPM @ 2400 RPM driven off torque-converter PTO. With manually operated Pump Disconnect.
 Steer Pump - One Section gear type, 185 GPM @ 2400 RPM driven off torque-converter PTO.

HYDRAULIC POWER DISTRIBUTION - (Main hoist, Auxiliary hoist - 2250 PSI Relief) (Boom Elevation, Rear Steer, Telescope Mid - 2500 PSI Relief) (Telescope Fly, Outrigger, Swing - 2250 PSI Relief).

CONTROL VALVES - Precision four-way double-acting type with integral load check, main and circuit relief valves. Three banks permitting multiple control of crane functions.

RESERVOIR - 90 gallon capacity, all steel welded construction with dip stick.

FILTER - Return line type with replaceable cartridge.

OIL COOLER - Oil to air.

TURNING RADIUS - 18 ft. 11 in.

OUTRIGGERS - Hydraulic, double-box sliding beam and box-type integral with main frame; includes steel covers for vertical jack cylinders, safety check valves and mechanical pin locks. Beams extend to 16 ft. - 3 in. center to center, retract to 7 ft. - 11 1/2 in. overall width. Full hydraulic in, out, up and down. Outrigger controls mounted in the operator's control station.

CAB - All steel, fully-enclosed with safety glass throughout. Heater, wiper and L.H. door. Includes all engine instruments and all controls for driving the vehicle and performing all crane functions. Cab-mounted on Rotating Superstructure.

MAIN FRAME - All welded construction with full depth longitudinal and cross members, frame doubly reinforced at critical points to insure a rigid turntable mounting.

TRANSMISSION AND TORQUE CONVERTER - Clark power shift.

SPEEDS - 6 Forward and 6 reverse.

AXLES - (Front and Rear) Heavy duty planetary-type with twin-steering cylinders. Rear axle mounted to allow 0-10 in. oscillation and includes automatic-oscillation lockouts.

SERVICE BRAKES - Air Powered, Hydraulic Brakes on all four wheels.

PARKING BRAKE - Mechanical Parking Brake on Front Axle, Spring Applied, Air Released.

STEERING - Front - Power Assist hydraulic; wheel control.
 Rear - Full hydraulic; tiller bar control located on control console.

TIRES - 16:00 x 24 - 16 ply - Rock Grader SDC Rims. (Heavy duty, normal flotation)
 *20.5 x 25 - 20 ply - Sure Grip Lug Wide Base Earthmover tubes tire. (Heavy duty, high flotation).
 *17.5 x 25 - 16 ply - Power Grader Lug (nylon) tubless. (Light duty, high flotation).
 NOTE: Cranes equipped with 17.5 tires are limited to 18,000 lbs. capacity when lifting on Rubber.

FUEL CAPACITY - 50 gallons.

DESCRIPTION: Power Up and Down, Equal Speed, Planetary Reduction, with Integral Automatic Brake.				
HOIST DATA	MAIN HOIST - STD. or AUX. HOIST - OPT.	*MAIN HOIST	*MAIN HOIST (Free Fall)	*MAIN HOIST or AUX. HOIST (Free Fall)
Drum Dimensions	Model 40 SECR 9 in. diameter 8 in. length 17.5 in. diameter flange	Model 4065 HECH 14.5 in. diameter 16 in. length 22.3 in. diameter flange	Model 4065 HGECH 14.5 in. diameter 16 in. length 22.3 in. diameter flange	Model 40 SECR 9 in. diameter 8 in. length 17.5 in. diameter flange
Performance	Single Line Speed 290 FPM (Max.) Single Line Pull 9,000 lbs. (Max.)	Single Line Speed 475 FPM (Max.) Single Line Pull 7,400 lbs. (Max.)	Same as 4065 HGECH with Free Fall Feature	Same as 40 SECR with Free Fall Feature
Cable Capacity	400 ft. of 1/2 in. Cable	800 ft. of 9/16 in. Cable	800 ft. of 9/16 in. Cable	400 ft. of 1/2 in. Cable
Permissible Line Pull	7,200 lbs. (Max.)	6,790 lbs. (Max.)	6,790 lbs. (Max.)	7,200 lbs. (Max.)

FREE FALL Hoists available on either Main or Auxiliary But Not Both.

ENGINE SPECIFICATIONS -

	GAS	DIESEL	DIESEL	DIESEL
MAKE	Ford 391	*GM453N	*Caterpillar 3145	*Cummins V-470C
TYPE	V8 Cylinder OHV	4 Cylinder OHV	V8 Cylinder OHV	V8 Cylinder OHV
BORE & STROKE	4.05 in. x 3.79 in.	3.875 in. x 4.50 in.	4.5 in. x 4.1 in.	4.625 in. x 3.5 in.
DISPLACEMENT	391 cu. in.	212 cu. in.	522 cu. in.	470 cu. in.
NET BHP	168 @ 2800 RPM	112 @ 2800 RPM	117 @ 2750 RPM	146 @ 2800 RPM
GOVERNED RPM	2800 RPM	2800 RPM	2800 RPM	2800 RPM
NET TORQUE	346 lbs. ft. @ 2100 RPM	257 lbs. ft. @ 1800 RPM	299 lbs. ft. @ 1600 RPM	299 lbs. ft. @ 1800 RPM
ELECTRICAL SYSTEM	12 volt	12 Volt	12 volt	12 volt
COMBUSTION SYSTEM	4 cycle	2 cycle	4 cycle	4 cycle
COOLING	Water Cooled	Water Cooled	Water Cooled	Water Cooled



SPECIFICATIONS

SPEED AND GRADEABILITY

Forward Drive	Transmission Range	Gear Shift	Road Speed (MPH)	Gradeability @ 5th (%)	Draw Bar Pull (lbs.)
4 Wheel Drive	Low	1st	2.9	62.5	28,490
4 Wheel Drive	Low	2nd	5.6	42.7	19,460
4 Wheel Drive	Low	3rd	15.4	11.5	5,240
2 Wheel Drive	High	1st	7.2	41.6	18,950
2 Wheel Drive	High	2nd	13.7	12.8	5,840
2 Wheel Drive	High	3rd	34.0	3.9	1,790

WORKING WEIGHTS

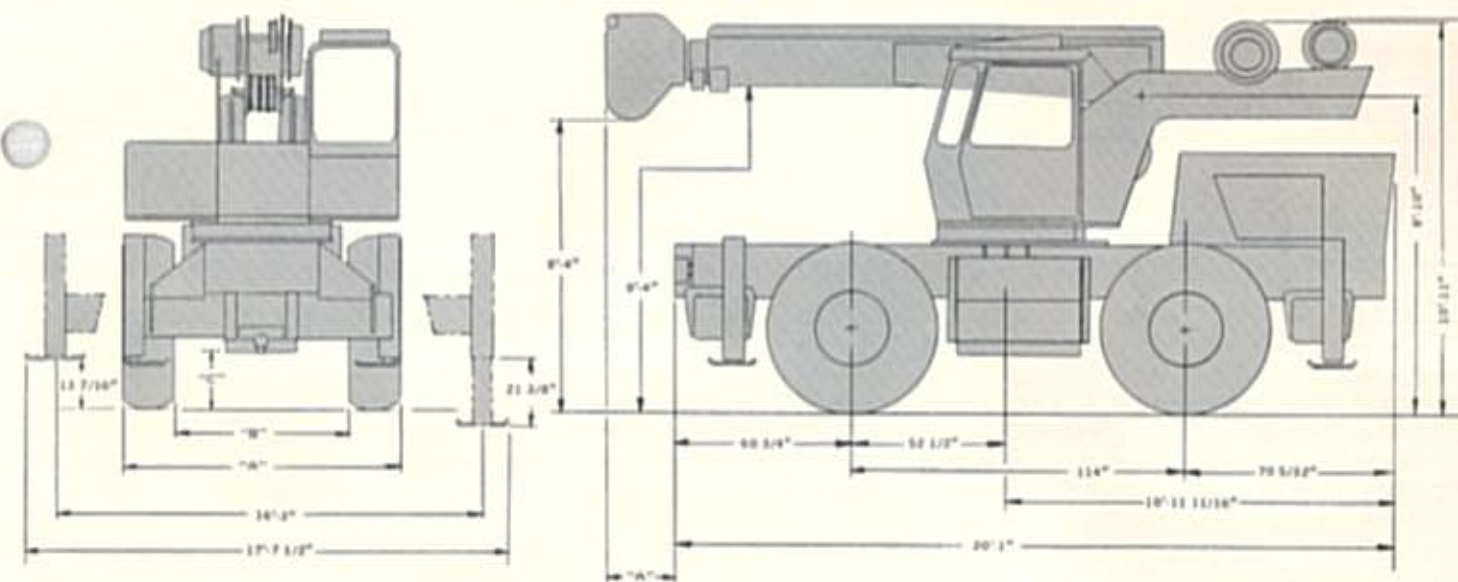
Standard Machine With	Total Weight (lbs.)	Axis Weight Distribution Front	Axis Weight Distribution Rear
28-70 Boom	45,060	27,350	17,710
24-60 Boom	44,190	24,050	20,140
21-51 Boom	42,110	23,515	18,595
24-78 Boom	46,970	28,000	18,970

DIMENSIONS

TAIL SWING 10'-3 3/16"
 TURNING RADIUS 18'-11"

SIDE VIEW	"A"
21'-51" BOOM	8'-11 5/16"
24'-60" BOOM	11'-11 5/16"
28'-70" BOOM	15'-11 5/16"
24'-78" BOOM	12'-5 13/16"

FRONT VIEW TIRE SIZE	"A"	"B"	"C"
16-00 x 24	93.54"	59.08"	17"
17-00 x 25	95.45"	58.67"	14 1/2"
20-5 x 25	106"	64"	17 3/4"



*DENOTES OPTIONAL EQUIPMENT.

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