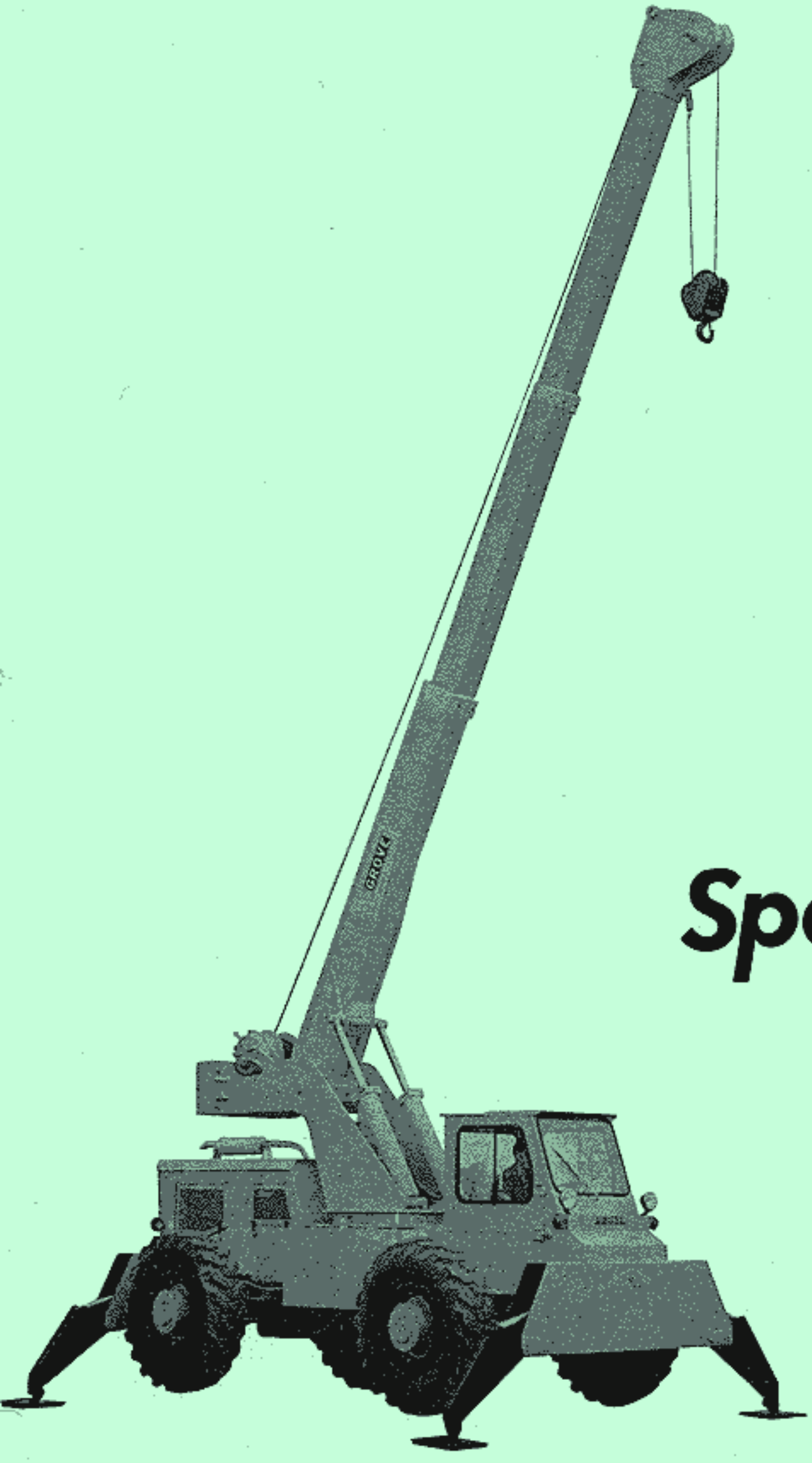
GROVE®



FULL HYDRAULIC SELF-PROPELLED CRANE

MODEL RT38

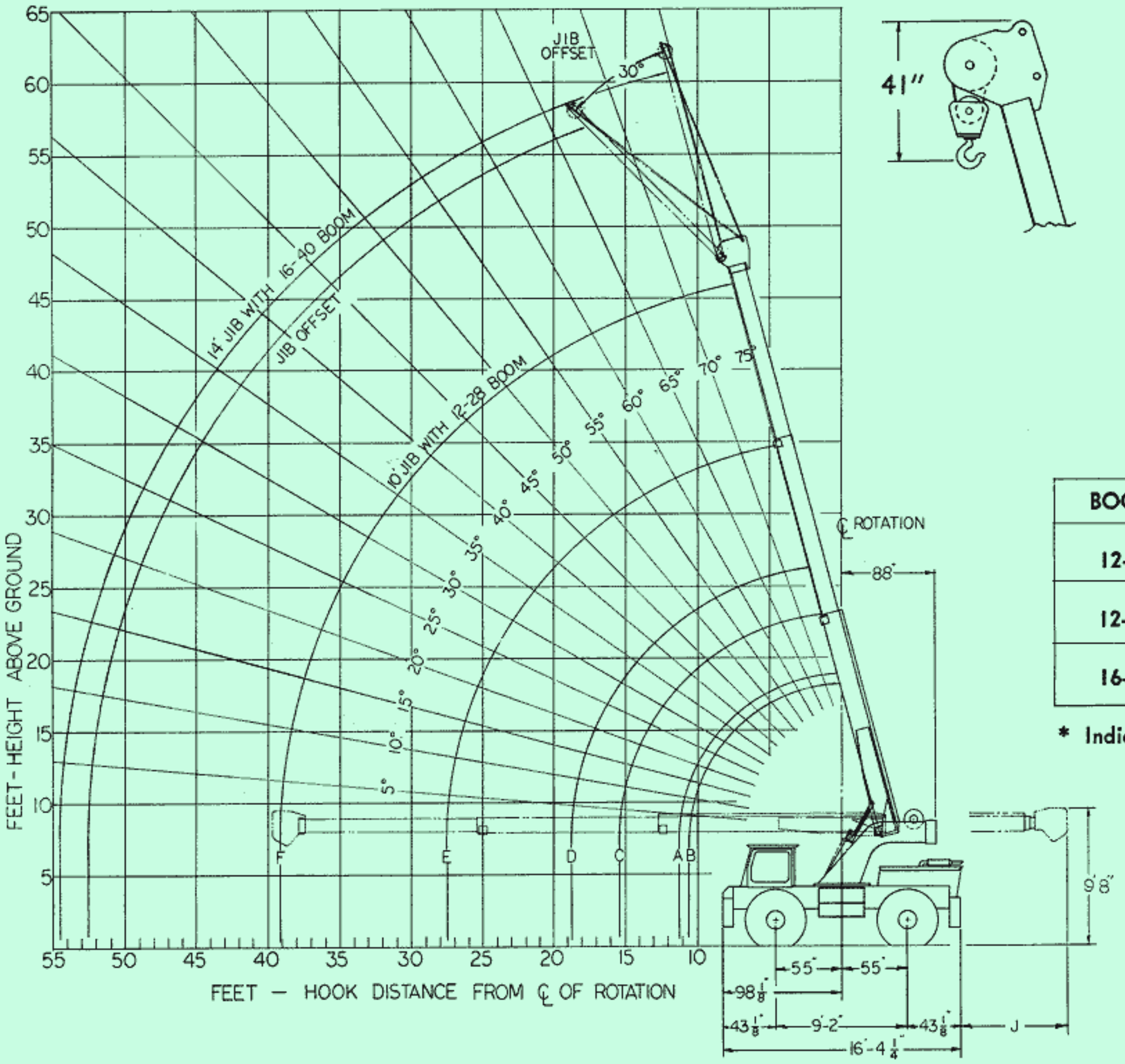
Specifications

- 15,000 lbs. Capacity
- 16-40 Ft. Full-Power Telescoping Boom
- 4-Wheel Drive with Rear Axle Disconnect
- 4-Wheel Power Steer
- 4-Wheel Power-Assist Brakes
- Cab-Controlled Rear-Axle Lockouts

GROVE MANUFACTURING COMPANY
A DIVISION OF WALTER KIDDE & CO., INC.
SHADY GROVE • PENNSYLVANIA

GROVE Model RT38

Full Hydraulic CRANE



JIB CAPACITIES

Min. Boom Angle	No Offset	Max. Offset
75°	6000#	4450#
70°	4050	3000
65°	3150	2350
60°	2600	1950
50°	1550	1150
40°	1250	950
30°	1100	800

DIMENSIONAL CHART

BOOM	RETRACTED	EXTENDED	J
12-20	B*	D*	3' 1"
12-28	A*	E*	3'-7"
16-40	C*	F*	7' 1"

* Indicates hook height and/or line of hook travel

NOTES

1. Rated lifting capacities, with or without outriggers, are the maximum loads covered by the manufacturer's warranty with the machine standing on a firm, level and uniform supporting surface. Capacities do not exceed 85% of tipping.

2. For certain conditions, capacities are controlled by machinery strength. In these cases machine tipping must not be relied upon as the capacity limitation.

3. For clamshell and concrete bucket operation, weight of bucket and load should not exceed 90% of lifting capacities.

4. The weights of all load-handling devices are considered part of the load lifted and suitable allowances for them should be made.

5. Boom jib extensions may be used as straight or gooseneck extensions, and for lifting crane service only.

6. With jib installed, lifting capacities over main boom must be reduced as follows:

JIB LENGTH	REDUCED CAPACITY
10 ft.	350 lbs.
14 ft.	500 lbs.

7. The maximum boom length, including jib extensions, may be raised from horizontal, over the front, with outriggers set.

8. Long cantilever booms can create a tipping condition when in extended and lowered positions. Boom should be retracted proportionate to the capacity of the load chart.

9. Single line capacity 7000#. For larger capacities use multiple part reeving, (one additional line for each 7000# of capacity.)

10. Each power-telescoping boom section should be extended equally at all times. Do not operate one fully extended and another fully retracted.

RATED LIFTING CAPACITIES
Grove Model RT-38

OPERATING RADIUS	WITH OUTRIGGERS						WITHOUT OUTRIGGERS					
	12-20 (2 sect.) BOOM		12-28 (3 sect.) BOOM		16-40 (3 sect.) BOOM		12-20 (2 sect.) BOOM		12-28 (3 sect.) BOOM		16-40 (3 sect.) BOOM	
	FRONT	360°	FRONT	360°	FRONT	360°	FRONT	360°	FRONT	360°	FRONT	360°
10	15000	15000	15000	15000	15000	15000	14000	8900	14000	8900	14000	8900
12	14700	14100	14600	14000	14400	13700	11600	6400	11600	6400	11400	6800
15	13750	11750	13600	11600	13400	11600	8100	4800	8100	4800	8000	4700
*20	12200	7300	12000	7100	11800	7100	5300	3100	5300	3100	5150	2950
*25			8100	5300	7900	4850			3600	2000	3450	1900
*30			7000	4400	5700	3500			2700	1800	2450	1200
*35					4300	2675					1750	600
*40					3600	2000					1400	200

Manual fly section (3 sect. boom) in lieu of powered fly section increases capacities 350 lbs.

SPECIFICATIONS

BOOM — Full Power Telescope

BOOM LENGTH		NO. OF SECTIONS	FEET OF TELESCOPE	HOOK HEIGHT	
Retracted	Extended			Retracted	Extended
12'	20'	2	8'	18'	26'
*12'	28'	3	16'	18' 6"	35'
*16'	40'	3	24'	23'	46'

ABOVE BOOM LENGTHS ARE CALCULATED FROM CENTER LINE OF ROTATION TO CENTER LINE OF HOOK.

BOOM HEAD — Single sheave

* **JIB EXTENSIONS** — 10' — For 12-20 and 12-28 boom
14' — For 16-40 boom

BOOM ELEVATION — Twin double-acting hydraulic cylinders with pilot holding valve. 0° to 75°.

HOIST (Main) — Model 40 SECR — Power up and down, hydraulic motor driven, planetary gear with integral automatic brake, turntable mounted.
DRUM — 9" diameter, 8" long, 17½" diameter flanges.
CABLE — ½" diameter x 125' long.
CABLE CAPACITY — Maximum — 300' (½").
SINGLE LINE PULL — 7,000 lbs. maximum. **SINGLE LINE SPEED** — 200 FPM maximum.

* **HOIST (Main)** Model 40 SCR, high speed power down. Line speed down — 700 FPM maximum.

SWING — 360° continuous rotation, ball bearing swing circle with external gear. Gear reducer driven by hydraulic motor. **SPEED** — 4.5 RPM.

MAIN FRAME — 18" rectangular box section.

*** DENOTES OPTIONAL EQUIPMENT.**

GROVE *Hydraulic* CRANES

SPECIFICATIONS (Continued)

ENGINE SPECIFICATIONS:

	GAS	*GAS	*DIESEL
MAKE	Ford 240	Ford 300	GM3-53
TYPE	6 cyl. O.H.V.	6 cyl. O.H.V.	3 cyl. O.H.V.
BORE & STROKE	4.00" x 3.18"	4.00" x 3.98"	3.875" x 4.50"
GROSS B. H. P.	124 @ 2800 RPM	149 @ 2800 RPM	97 HP @ 2800 RPM
GROSS TORQUE	235 bs. ft. @ 2400 RPM	284 lbs. ft. @ 2000 RPM	202 lbs. ft. @ 1500 RPM
GOVERNOR (Mechanical)	3200 RPM	3200 RPM	2800 RPM
ELECTRICAL SYSTEM	12 Volt	12 Volt	12 Volt HD Battery

HOURMETER

HYDRAULIC PUMPS — Triple pump system totals 75 GPM. Hydraulic power distribution of three pumps: (Cable hoist — Boom elevation — Outriggers) (Swing — Telescope; Mid and Fly Section — Rear steer — *Clam-shell) (Front steer — *Automatic oscillation lockouts.)

CONTROLS — 4-way double acting hydraulic valves with integral main and circuit by-pass relief valves. Operating pressure 2250 PSI maximum.

TRANSMISSION AND TORQUE CONVERTER — Allison automatic, powershift.

SPEEDS — 4 forward and 2 reverse. (* 8 forward and 4 reverse with optional 4-wheel drive).

FRONT AXLE — Planetary drive.

REAR AXLE — Non driving, with 0" to 10" oscillation. (*Planetary Drive with optional 4-wheel drive).

OSCILLATION LOCKOUTS — Mechanical, cab controlled (*Automatic hydraulic lockouts optional).

BRAKES — SERVICE

TYPE — Power assist hydraulic, activated on two wheels. (*4 wheel power assist brakes optional)
SIZE — 16¼" x 2½".

BRAKES — PARKING
TYPE — Mechanical in drive line. Hand lever control.

STEERING
FRONT — Full hydraulic; wheel control.
REAR — Full hydraulic; tiller bar control.

TIRES — 13.00 x 24-10 ply power grader lug (nylon) tubeless.
*14.00 x 24-12 ply power grader lug (nylon) tubeless.
*15.50 x 25-12 ply power grader lug (nylon) tubeless.

OUTRIGGERS

QUANTITY — Four, one at each corner, individually and independently controlled from operator's position.

TYPE — Hydraulic, with integral safety check valves.

* **CAB** — All steel fully enclosed, skylight, safety glass windows, weather stripped, electric windshield wiper, and heater. Left and right hand doors.

TURNING RADIUS — 17' 6".

WIDTH, OVERALL — 8'0" (Width to center line of outrigger pads — 12'1").

WEIGHT — 22,000 lbs. approximate.

PERFORMANCE DATA (DRY CONCRETE SURFACE): Basic standard machine with optional 4-wheel drive.

TRANSFER RANGE	TRANSMISSION RANGE	TRACTIVE EFFORT	DRAW BAR PULL @ STALL	GRADEABILITY @ STALL	SPEED (MPH)
LOW	Low fwd	26,800	15,400	100%	4.8
	High fwd	7,130	6,590	45%	9.0
	Reverse	20,000	15,400	100%	6.4
HIGH	Low fwd	14,600	14,140	68%	11.0
	High fwd	3,940	3,500	24%	25.0
	Reverse	10,620	10,180	65%	15.0

NOTE: All performance data is based on the standard machine and may vary plus or minus 10% due to variations in engine performance, vehicle and engine break in, etc. Optional equipment that changes horsepower or gross vehicle weight will modify performance data.

* 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.

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