



SUPERSTRUCTURE SPECIFICATIONS 8 x 4 and 12 x 6 CARRIER MODELS

- BOOM Four Section, Full Power Telescoping, Trapezoidal Boom 36 ft. (10.7m) - Retracted, 114 ft. (34.7m) - Extended, Integral Holding Valves on each telescoping cylinder.
- BOOM NOSE Six Sheave, with Tapered Roller Bearings. Weld on type with integral cable guards.
- *BOOM EXTENSION 32 ft. (9.8m) Swing-away Lattice Fly Section.
- *JIBS 28 ft. (8.5m) Jib Section and 32 ft. (9.8m) Swing-away Lattice Extension, combine to make-up 60 ft. (18.2m) Jib (not stowable)
 - (60 ft. [18.2m] Combination may be offset)
- BOOM ELEVATION Twin, Double-acting Hydraulic Cylinders with Integral Safety Holding Valves. (-4° to 80°) Elevation. Full Power Up and Down, combination control lever provided for hand or foot operation.
- SWING Anti-friction Roller Bearing Swing Circle, 360° continuous rotation, Grove "Planetary Glide Swing" gear box. Internal Pinion, bull gear integral with swing circle bearing. Foot actuated Swing Brake and hand operated House Brake, combination control lever provided for hand or foot operation.
- HYDRAULIC SYSTEM Pumps, Six Section gear type driven from superstructure engine. Combined Capacity 350 GPM. Manual Control Pump Disconnect operated from superstructure cab.
- HYDRAULIC POWER DISTRIBUTION (Main Hoist 2365 PSI) (Auxiliary Hoist, Inner-mid Telescope - 2250 PSI) (Boom Elevation - 2500 PSI) (Fly Telescope - 2250 PSI) (Outer-Mid Telescope, Outriggers - 2250 PSI) (Swing - 2250 PSI) (Counterweight, Accessory - 1500 PSI)

- CONTROL VALVES Four-way, Double-acting type with integral load check, main and circuit relief valves, six banks permitting multiple control of crane functions.
- RESERVOIR 305 gallon, (1154 Liters) all steel welded construction with integral baffles and top cleanout hole.
- FILTER Twin suction line type, full flow with by-pass protection, replaceable cartridges, warning protection indicating hydraulic oil contamination.
- OIL COOLER Oil to air.
- CAB All steel, fully enclosed, laminated safety glass windows, sliding right side window, sliding door, hinged skylight. Full length control levers, combination hand and foot controls for swing and boom elevation. Fully adjustable operator's seat with head rest. Full engine instruments and controls, all crane function controls and heater. Hinged lower front and rear windows.
- OUTRIGGER CONTROLS (8 x 4 Carrier Model) independently controlled, in-out-up and down, from superstructure cab and from either side of carrier.

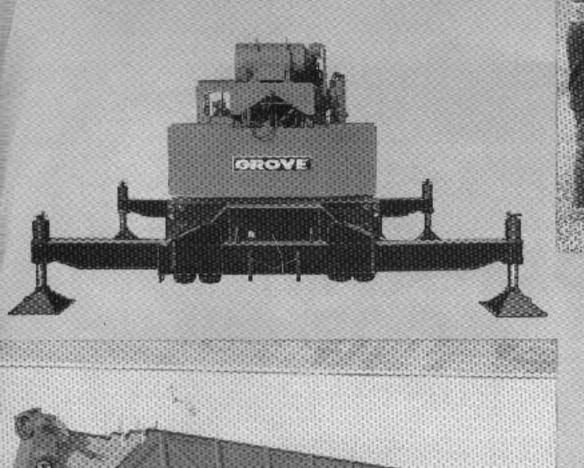
 (12 x 6 Carrier Model) Controlled, in-out-up and down, from respective sides of carrier.
- COUNTERWEIGHT Turntable mounted, power installed and removed, hydraulically extended to working position and retracted to stowed or travel position.

ENGINE SPECIFICATIONS -		and the second s		
MAKE	GM6V-53N Diesel	Cummins V504-C210 Diesel		
TYPE	6 cylinder, supercharged	8 cylinder, O.H.V. 4.625 in. x 3.750 in.		
BORE & STROKE	3.875 in. x 4.50 in.			
DISPLACEMENT	318,4 cu. in.	504 cu. in.		
NET FLYWHEEL HP	178 @ 2500 RPM	188 @ 3300 RPM		
GOVERNED RPM	2500 RPM	3300 RPM		
NET FLYWHEEL TORQUE	410 lbs. ft. @ 1200 RPM	362 lbs. ft. @ 1800 RPM		
ELECTRICAL SYSTEM	12-volt	12-volt		
COMBUSTION SYSTEM	2 Cycle, with blower	4 Cycle		
COOLING SYSTEM	Liquid	Liquid		

FUEL CAPACITY - 78 gallons (295.3 liters)

DESCRIPTION: Two Speed, Planetary Redu	MAIN HOIST Speed Range: Power Up and Down, Equal action, with Integral Automatic Brake.	*AUXILIARY HOIST DESCRIPTION: Power Up and Down, Equal Speed, Planetary Reduction with Integral Automatic Brake	
HOIST DATA	MAIN HOIST GROVE MODEL 325-1726	*AUXILIARY HOIST MODEL - 40 SECR	
Drum Dimensions	16 in, diameter (41 cm) 26 in , length (66 cm) 24 in, diameter flange (61 cm)	9 in. diameter (23 cm) 13 in. length (33 cm) 17.5 in. diameter flange (44 cm)	
Performance	HIGH SPEED RANGE Single Line Speed Single Line Speed Single Line Speed 280 FPM (Max.) (170.8 mpm) (85.4 mpm) Single Line Pull S,500 lbs. (Max.) (3856 kg) (7711 kg)	Single Line Speed 290 FPM (Max.) (88.3 mpm) Single Line Pull 9,000 lbs. (Max.) (4082.8 kg)	
Cable Capacity	890 ft. of 3/4 in. Cable (271.3 m of 1.9 cm) 640 ft. of 7/8 in. Cable (196 m of 2.2 cm)	680 ft. of 1/2 in. Cable (208.2 m of 1.3 cm)	
Permissible Line Pulls	3/4 in., 6x41 Class Cable - 15,400 lbs. (6985.3 kg) 3/4 in., 19x7 Class Cable - 13,700 lbs. (6215 kg) 7/8 in., 19x7 Class Cable - 15,400 lbs. (6985.3 kg)	1/2 in., 6x37 Class Cable - 7,200 lbs. (3266 kg) 1/2 in., 18x7 Class Cable - 6,150 lbs. (2790 kg)	

*DENOTES OPTIONAL EQUIPMENT





provides a positive lock in any position of the vertical stroke. Mechanical spin-lock is quick and easy to use and makes levelling the crane extremely easy.

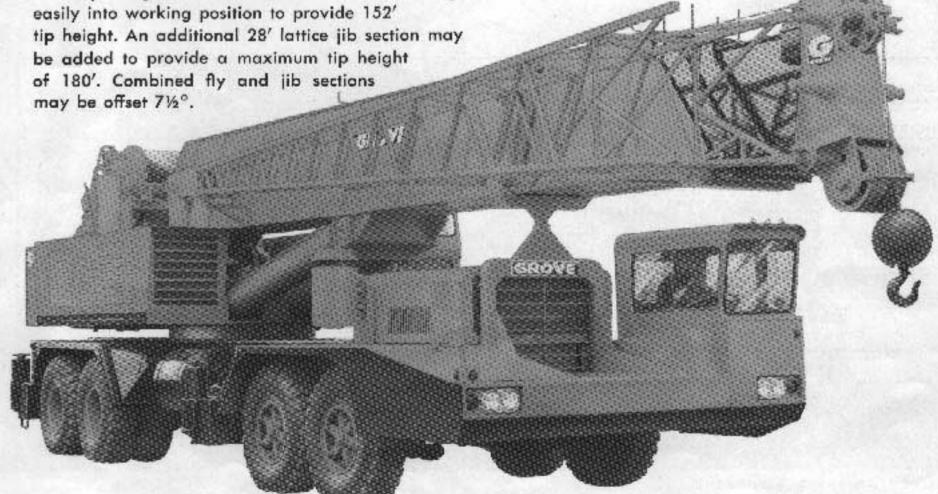
EXCELLENT STABILITY!

Hydraulic double-box beam outriggers provide a spread of 23 feet and are independently controlled permitting variable outrigger spread for working in close quarters. On the 8 x 4 carrier model, controls for outrigger beams and jacks are located in the superstructure cab and on either side of the carrier.

On the 12 x 6 carrier model, outrigger controls . . . in, out, up and down . . . are located on the respective sides of the carrier.



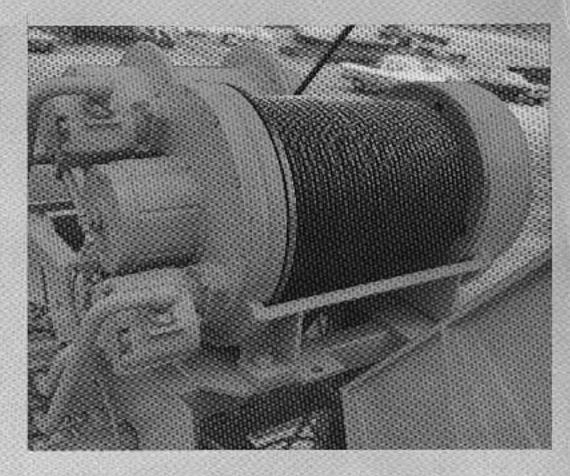
The "Swingaway" lattice fly section stores laterally alongside the boom base section and swings

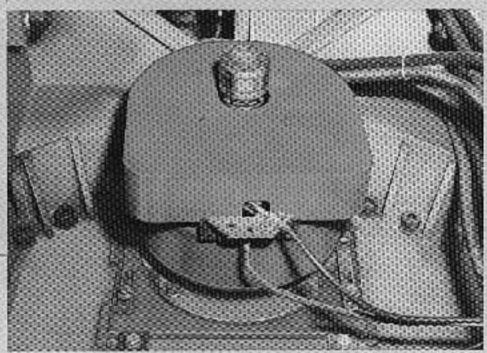


NEW TWO SPEED HOIST!

This new Grove designed and manufactured hoist is the only hydraulic crane hoist providing both high line pull and high line speed without changes in lagging or gearing. Line speed ranges from 280 fpm at low speed to 560 fpm at high speed. Single line pull is 17,000 lbs. at low speed and 8,500 lbs. at high speed.

All internal parts run in oil and are protected from the weather. Motors and disc brake, while totally enclosed, are easily accessible for service.



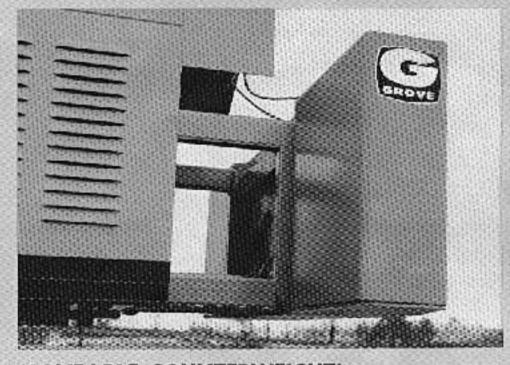


SMOOTH, PRECISE 360° ROTATION!

Smooth, precise continuous swing is assured with a large anti-friction roller bearing swing circle and the new Grove "Planetary Glide Swing" gear box. Swing action is accurate and instantaneous to the touch of the combination hand/foot control lever. Glide swing with foot brake is standard.

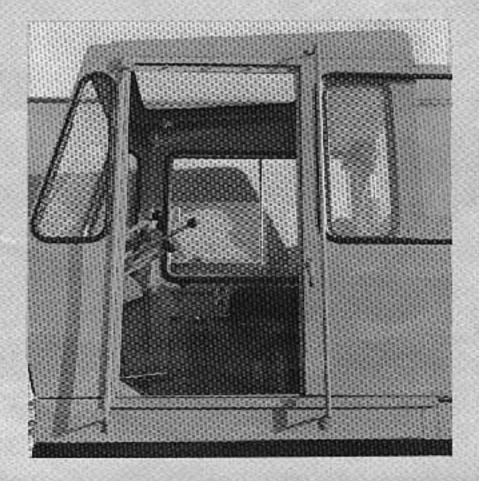


The interior of the all steel cab is designed for operator convenience and efficiency. Full length control levers are adjustable and combination hand and foot controls are provided for swing and boom elevation. Operator's seat is adjustable and has head rest. Other features include a sliding door, hinged skylight and laminated safety glass windows.



MOVEABLE COUNTERWEIGHT!

The turntable-mounted counterweight is hydraulically extended to working position to provide improved capacities with a minimum of weight. It is also power installed and removed.





The GROVE TRAPEZOIDAL BOOM

A SUPER-STRENGTH, HIGH CAPACITY, LONG REACH BOOM

The Grove trapezoidal boom presents the optimum strength to weight ratio for hydraulic crane operation. It is the strongest, lightest, long-reach telescoping boom in the industry. These features are directly attributable to the trapezoidal design which permits a deeper, wider and lighter boom structure with greater resistance to lateral and vertical deflection than booms of conventional design. The result is a high strength, extremely rigid boom with near-zero deflection . . . more lifting power where you use it most.

LIFT MORE...
REACH
HIGHER...

IN THE HIGH PROFIT RANGE WITH THE

TRAPEZOIDAL BOOM 180' TIP HEIGHT WITH JIB

152" MAIN BOOM TIP HEIGHT WITH "SWINGAWAY" FLY SECTION







8 x 4 CARRIER MODEL

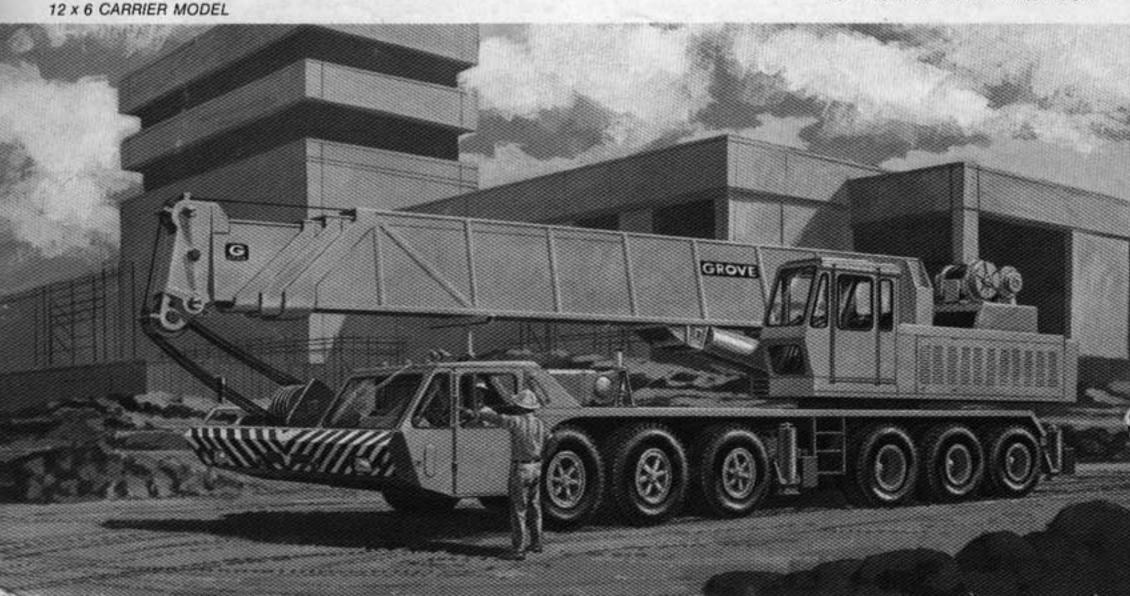
The GROVE TM800 provides a money-making capability you just can't get in any other crane . . . an unique combination of reach, capacity, and job-to-job mobility . . . another EXTRA-VALUE crane from GROVE to increase your profit potential.

AVAILABLE THROUGH:



GROVE MANUFACTURING COMPANY A Division of Welter Kidde & Company, Inc. Shady Grove, Pa. 17256

FORM NO. 513771-10MR Printed in U.S.A.



FULL HYDRAULIC CRANE CARRIER SPECIFICATIONS MODEL 12 x 6 - 80 GCD

OVERALL WIDTH - 9ft, 10in. OVERALL LENGTH - 39ft. 73/4in.

FRAME - Box Section of T1 and Man Ten Steel - Maximum Depth 24 in., all welded construction.

STEERING GEAR - Cam and lever with hydraulic power steering.

CLUTCH - Lipe Rollway 14 in., two plate dry disc, Area - 423 sq. in.

TRANSMISSION - Main - Fuller TO 905C, 5 Speeds forward and 1 reverse Auxiliary - 3G92, 3 Speeds

UNIVERSAL JOINTS - Needle bearing type.

AXLES - Front - (3) CDL-FTA-22000, 66,000 lbs. capacity
Rear - (3) Clark BD 50/60 Planetary, 100 in. track, 90,000 lbs.
capacity

SUSPENSION - Front - CDL Solid Mount Bogie, Equalizer Beams Rear - CDL Solid Mount TriDem, Equalizer Beams.

BRAKES - Full air on all 12 wheels, 14.5 CFM compressor, internal expanding shoes. Total lining Area - 2370 sq. in. Front - 15 in. x 5 in. Rear - 16½ in. x 7 in.

PARKING BRAKE - MGM spring chambers on last three rear axles with emergency release kit.

SPEED AND GRADEABILITY

Condition @ Full Load	Speed Ranges	% of Gradeability @ Max. Torque	
On Highway *	5.03 to 36.62 MPH	15 to .77%	
Off Highway †	2.41 to 17.52 MPH	32.11 to 3.25%	

*Auxiliary Transmission in High Range. †Auxiliary Transmission in Low Range. WHEELBASE - 220 in.

TURNING RADIUS - 53 ft.

WHEELS - 20 in. Cast Steel Spoke - 10 in. Rim width.

TIRES - Front and Rear - 14.00 x 20, 18 ply N.D. Highway Type.

OUTRIGGERS - Removable, Hydraulic double box type, vertical jack cylinders with integral safety holding valves, aluminum floats, Beams extend to 23 ft. centerline to centerline, retract to 11 ft. overall width. Controls on respective sides of carrier. Powered by Carrier Engine.

CAB - Low-Profile, two man, left hand drive, safety glass windshield and windows, rearview mirror, heater and defroster, windshield washer, horn and traffic hazard warning switch, four-way flasher, full engine instruments and carrier controls.

ELECTRICAL SYSTEM - Two 12 volt, 200 AMP Hour Batteries; 12 volt Lighting, 24 volt Starting, 50 AMP Alternator, Federal Safety Standard Lights and Reflectors.

MISCELLANEOUS EQUIPMENT - Wheel nut wrench, channel type front bumper, two front towing loops, two rear towing loops, rear fenders, Lock-up Sling Box, Tire Inflation Kit, Hydraulic

ENGINE SPECIFICATIONS MAKE & MODEL
CYLINDERS
BORE & STROKE
DISPLACEMENT
HORSEPOWER
GOVERNED @
TORQUE
(Engine Brake Standard)

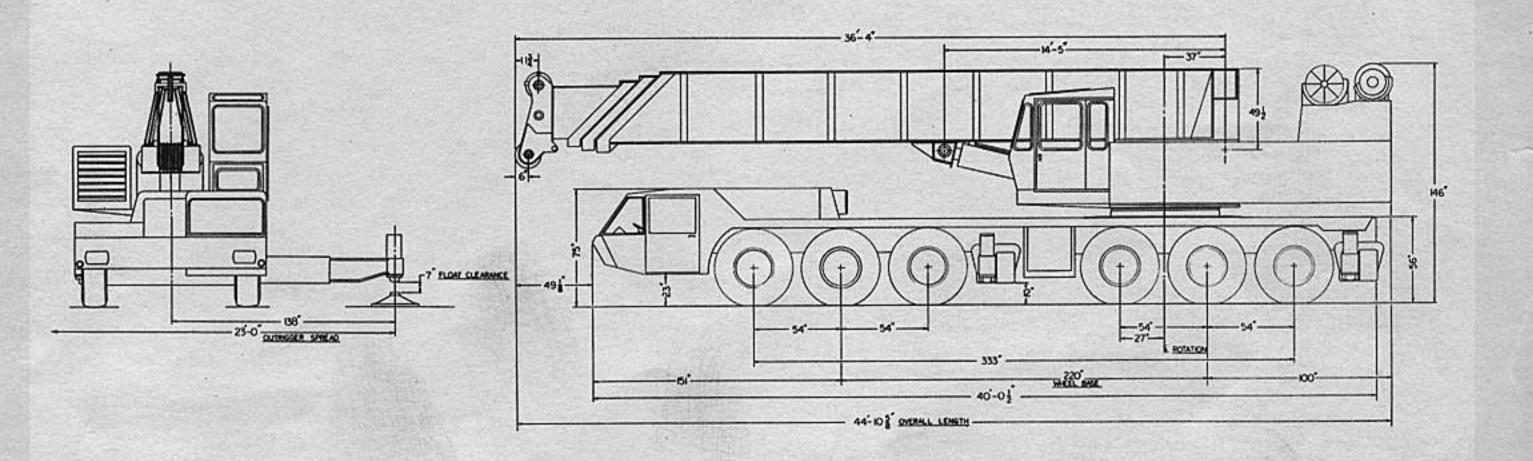
Cummins NTF-365 6 Valve in Head 5.5 in. x 6 in. 855 cu. in. 365 @ 2300 RPM 2300 RPM 930 @ 1650 RPM

AXLE WEIGHT DISTRIBUTION CHART

ITEM	GROSS LBS.	FRONT LBS.	REAR LBS.
Basic Machine including 36-114 ft. Trapezoidal Boom, Grove Main Hoist, Cummins NTF 365 (Carrier Engine), Cummins V504-C210 (Super- structure Engine)	115,043	47,634	67,409
*11,475 lb. Counterweight (Retracted Position) 32 ft. Fly Section Extension 6 Sheave Hook Block - Stowed *Gearmatic Model 11 Auxiliary Hoist Rooster Sheave 30 Ton, 3 Sheave Hook Block - Working Position 8 Ton, Hook Block - Working Position 140 lb. Headache Ball/Hook - Working Position 450 lb. Headache Ball/Hook - Working Position Basic Machine with Rear Outrigger Assembly Stowed on Deck *11,475 lb. Counterweight Stowed on Deck *11,000 lb. Counterweight Stowed on Deck *11,000 lb. Counterweight (Retracted Position)	+11,475 + 1,250 + 1,600 + 550 + 230 + 720 + 190 + 140 + 450 115,043 +11,475 +11,000 +11,000	-5,232 +1,105 +2,182 -247 + 449 +1,375 + 363 + 267 + 860 54,040 +9,649 +9,250 -5,015	+16,707 + 145 - 582 + 797 - 219 - 655 - 173 - 127 - 410 61,003 +1,826 +1,750 +16,015

*Use 11 000 lb. Counterweight with Auxiliary Hoist NOTE: 11,475 lb. Counterweight without Auxiliary Hoist

DIMENSIONS





GROVE MANUFACTURING COMPANY

A DIVISION OF WALTER KIDDE & COMPANY, INC.

SHADY GROVE • PENNSYLVANIA 17256

MEMBER: POWER CRANE & SHOVEL ASSOCIATION

Form 520271-10M

Printed in U.S.A.

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