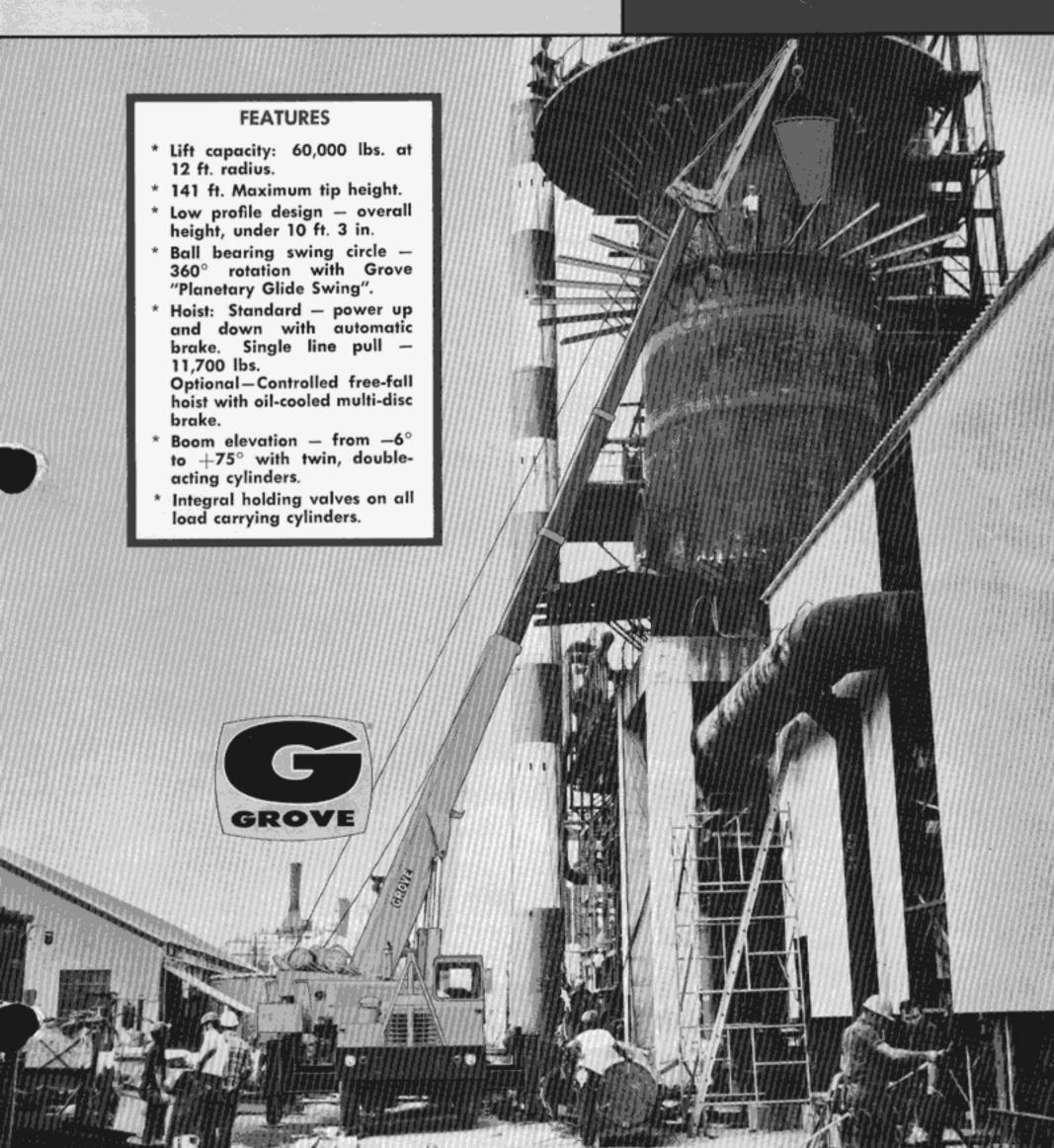
GROVE FULL HYDRAULIC CARRIER-MOUNTED CRANE

TM275LP 30-Ton Capacity



SUPERSTRUCTURE SPECIFICATIONS

- BOOMS 32 ft. 80 ft., 3 section, full power telescoping boom.
 *29 ft. 92 ft., 4 section, power telescoping boom. Two full power sections, fly section power extended and retracted from pinned position.
 - *32 ft. 101 ft., 4 section, power telescoping boom. Two full power sections, fly section power extended and retracted from pinned position.
 - Integral holding valves on each telescope cylinder.
- BOOM NOSE Fixed boom nose with integral rope guards. Four sheaves mounted on anti-friction bearings. Rope dead ends on each side of boom nose.
- *JIBS 20 ft. "Stowaway" for 32 ft. 80 ft. or 29 ft. 92 ft. 24 ft. "Stowaway" for all booms
 - 24 ft. 40 ft. telescoping jib (Not stowable)
 - All jibs have self equalizing suspension and jib backstops.
- BOOM ELEVATION Dual double-acting hydraulic cylinders with integral holding valves. 6° to 75° boom elevation. Full power up and down. Combination control lever provided for hand or foot operation.
- SWING Bearing swing circle, 360° continuous rotation, "Grove Planetary Glide Swing" with foot actuated disc swing brake and hand operated turntable brake. Combination control lever provided for hand or foot operation. Swing speed 3 RPM.
- HYDRAULIC PUMP Four section gear driven from superstructure. Combined capacity 142 GPM.

- HYDRAULIC POWER DISTRIBUTION (Main hoist, auxiliary hoist - 2250 PSI) (Swing - 2250 PSI) (Outriggers, fly telescope, lift boost - 2250 PSI) (Lift, hoist boost, mid-telescope accessory -2250 PSI)
- CONTROL VALVES Precision four-way double-acting with integral load check, main and circuit relief valves. Four individual valve banks permit simultaneous independent control of four crane functions.
- RESERVOIR 146 gallon, all steel welded construction with integral baffles and top clean-out access.
- FILTER Return line type; full flow with by-pass protection; replaceable cartridge.
- OIL COOLER Full flow, oil to air, fin and tube.
- CAB All steel, fully enclosed, removable front and sliding rear laminated safety glass window. Optional at no charge, hinged skylight for additional ventilation. Full length control levers with combination hand and foot control for swing and boom elevation; fully adjustable operator's seat, full engine instruments, heater, windshield wiper, fire extinguisher, and door locks.
- COUNTERWEIGHT Turntable mounted; removable.
- OUTRIGGER CONTROL Independently controlled jacks and beams, in, out, up and down from superstructure cab. Sequence control arrangement eliminates accidental actuation.

HOIST SPECIFICATIONS

DESCRIPTION: Pow	er up and down, equal speed, p	lanetary reduction, with integ	ral automatic brake.		
HOIST DATA	MAIN HOIST	*AUXILIARY HOIST (Free Fall)			
Drum Dimensions	Model 5090 MECR 14.5 in, diameter 16 in, length 22.3 in, diameter flange	Model 5090 MGECR 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	Model 40 SGECR 9 in. diameter 8 in. length 17.5 in. diameter flange	
Performance	Single line speed 360 FPM (Max.) Single line pull 11,700 lbs. (Max.)	Same as 5090 MECR with Free Fall	Single line speed 290 FPM (Max.) Single line pull 9,000 lbs. (Max.)	Same as 40 SECR with Free Fall	
Rope Capacity	690 ft. of 5/8 in. rope	690 ft. of 5/8 in, rope	400 ft. of 1/2 in. rope	400 ft, of 1/2 in. rope	
Permissible Single Line Rope Pull	5/8 in. 6x37 - 9,700 lbs. 5/8 in. 19x7 - 8,700 lbs.	5/8 in. 6x37 - 9,700 lbs. 5/8 in. 19x7 - 8,700 lbs.	1/2 in. 6x37 - 7,200 lbs, 1/2 in. 19x7 - 6,150 lbs.	1/2 in, 6x37 - 7,200 lbs. 1/2 in, 19x7 - 6,150 lbs.	

ENGINE SPECIFICATIONS

	GAS	'DIESEL	DIESEL
MAKE TYPE BORE & STROKE NET HORSEPOWER NET TORQUE GOVERNED RPM ELECTRICAL SYSTEM COMBUSTION SYSTEM COOLING SYSTEM FUEL CAPACITY	Ford 391 V-8 Cylinder O.H.V. 4.05" x 3.79" 171 @ 2800 RPM 346 lbs. ft. @ 2100 RPM 2800 RPM 12 Vott 4 cycle water cooled 57 gallons	GM4-53N 4 Cylinder O.H.V. 3.875" x 4.50" 114 @ 2800 RPM 260 lbs. ft. @ 1800 RPM 2800 RPM 12 Volt 55 AMP Alternator 2 cycle water cooled 57 gallons	Cummins V-378-C140 V-6 Cylinder 4.625" x 3.75" 106 @ 2800 RPM 119 lbs. ft. @ 1800 RPM 2800 RPM 12 Volt 55 AMP Alternator 4 cycle water cooled 57 gallons

AXLE WEIGHT DISTRIBUTION CHART

CARRIER	ВООМ	GROSS	FRONT	REAR
30 GH 30 GH 30 GH	32 ft80 ft. 29 ft92 ft. 32 ft101 ft.	63,894 lbs. 62,194 66,197	21,237 lbs. 22,500 24,909	42,657 lbs. 39,694 41,280
30 GC 30 GC	32 ft80 ft. 29 ft92 ft. 32 ft101 ft.	64,148 62,448 66,451	20,148 20,886 23,820	44,000 41,562 42,631

CARRIER PERFORMANCE - GH

CONDITION @	SPEED	% OF GRADEABILITY		
FULL LOAD	RANGE	@ MAX. TORQUE		
STANDARD EN	GINE, TIRES, TRANS	SMISSION, AXLES		
On Highway †	6.4 to 50 MPH	14.7 to 0.5%		
Off Highway ††	2.4 to 19.6 MPH	41.3 to 3.8%		
GM6-71N	HEAVY DUTY TRA	NSMISSION		
On Highway †	7.3 to 48.95 MPH	16.99 to 0.80%		
Off Highway ††	2.09 to 14.19 MPH	48.13 to 5.39%		

†Auxiliary transmission in high range ††Auxiliary transmission in low range

*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.

CARRIER PERFORMANCE - GC

CONDITION @ FULL LOAD	SPEED RANGE	% OF GRADEABILITY @ MAX. TORQUE						
STANDARD ENGINE, TIRES, TRANSMISSION, AXLES								
On Highway† Off Highway††	7.0 to 50 MPH 2.5 to 20.2 MPH	10.9 to -0.6% 31.8 to 3.1%						
GM6-71N	GM6-71N HEAVY DUTY TRANSMISSION							
On Highway† Off Highway††	8.3 to 48.6 MPH 2.3 to 15.5 MPH	10.1 to 0.0% 37.7 to 5.0%						

CARRIER SPECIFICATIONS MODELS 8 x 4 30 GC - 30 GH

OVERALL WIDTH - 8 ft. (2.44m)

WHEELBASE - 224 in. (5.69m)

OUTRIGGERS — Removable, hydraulic, double box outriggers. Beams extend to 16 ft. centerline to centerline retract to 8 ft. overall width; Vertical jacks with integral holding valves, steel covers and mechanical pin locks; Full hydraulic power in-outup-down; Outrigger controls located in carrier cab.

FRAME — Lightweight high strength steel. All welded construction. Depth - 18 in.

STEERING GEAR — Ross TE71 cam and lever, roller mounted with hydraulic power assist.

CLUTCH - 14 in. single plate, dry disc type.

TRANSMISSION — (Main) 5CW65, 5 speeds forward and 1 reverse.

(Auxiliary) 3K65, 3 speed - 30 GC

3A65, 3 speed - 30 GH

UNIVERSAL JOINTS - Needle bearing type.

AXLES — Front: Tandem 32,000 lbs. Capacity Rear: Tandem 44,000 lbs. Capacity

SUSPENSIONS — Front: Spring loaded, tandem walking beams.
Rear: Tandem axle, solid mount suspension.

OVERALL CARRIER LENGTH - 30 GC 30' - 8" 30 GH 30' - ½"

GROUND CLEARANCE - 11"

MINIMUM TURNING RADIUS - GC 47' - 5½" GH 48' - 2"

TIRES - Front : (4) 11.00x20 - 14 ply highway Rear : (8) 11.00x20 - 12 ply N.D.M.& S.

WHEELS - 20 in. Cast Spoke 8 in. Rim.

BRAKES — Service - Full air on six wheels with 12 CFM piston compressor.

PARKING BRAKES — Spring-set emergency chambers on one rear axle with emergency release kit.

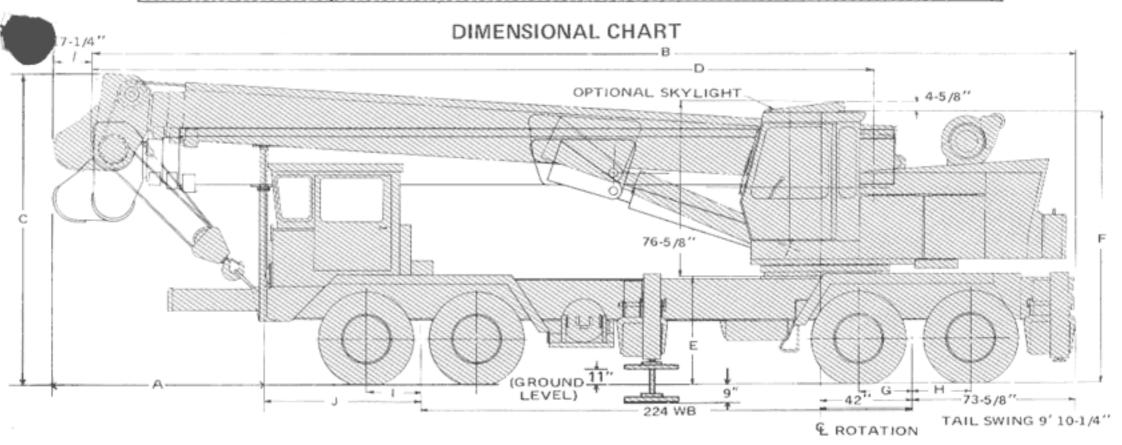
ELECTRICAL SYSTEM — 12 volt lighting and starting. One 12V, 90 AMP battery, 37 AMP alternator. Federal safety standard lights and reflectors 30 GC (160 AMP battery, 42 AMP alternator - 30 GH)

CAB — One man, safety glass windshield and windows, door and window locks, windshield washer and wiper, fire extinguisher, Bostrum "T" bar seat, seat belt, dual rear view mirrors, heater, defroster, engine instruments and carrier controls.

MISCELLANEOUS EQUIPMENT — Wheel nut wrench, channel type front bumper, two front towing loops and rear fender.

ENGINE SPECIFICATIONS

///////////////////////////////////////	GAS	//*DIESEL	/// DVESEL
MAKE & MODEL CYLINDERS BORE & STROKE DISPLACEMENT HORSEPOWER GOVERNED @ TORQUE AIR CLEANER FUEL CAPACITY GALLONS	(HC RD501	GM6-71N	CUMMINS NH230
	6	6	6
	4.5" x/5,25"	4,25" x 5.0"	5.5" x 6.0"
	501 cu: int.	426 cu, in.	855 cu. in.
	214.8 @ 3000 RPM	238 @ 2100 RPM	230 @ 2100 RPM
	2600 RPM	2100 RPM	2100 RPM
	451 lbs. ft. @ 1600 RPM	649 lbs. ft. @ 1400 RPM	605 lbs. ft. @ 1500 RPM
	Dry type	Dry type	Dry type
	60 on GC	60 on GC	60 on GC
	50 on GH	50 on GH	50 on GH



KEY	C. C. CARRIER									
BOOM	А	////B	////¢////	////D	////E	////9////	////G	///////////////////////////////////////	<i>[[]</i>	////٧///
32' - 80'	8' - 11"	39' - 7"	11' - 10-1/4''	31' - 11-3/4''	4' - 0-3/4"	10' -1-1/4''	24-11/16	26-1/4"	24-1/2"	70-7/16"
29' - 92'	6' - 6-3/4"	37' - 2-3/4"	11' - 7-1/4''	29' - 7-1/2"	4' - 0-3/4"	10' -1-1/4''	24-11/16	26-1/4"	24-1/2"	70-7/16"
32' - 101'	9' - 6-3/4"	40' - 2-3/4"	11' - 10-1/4"	32' - 7-13/32"	4' - 0-3/4"	10' -1-1/4''	24-11/16	26-1/4"	24-1/2"	70-7/16"
KEY				HENDRICKSON	CARRIER					/////////
BOOM	A	B	/////C	/////b/////	/////e	/////\F	G	///H	///////////////////////////////////////	///////////////////////////////////////
32' - 80'	9' - 6-1/2"	39'- 6-19/32"	11' - 11-1/4"	31'- 11-3/4"	4' - 1-3/4"	10' - 2-1/4"	25"	25"	24"	65-1/2"
29' - 92'	7' - 2-1/4"	37' - 2-1/4"	11' - 8-1/4"	29' - 7-13/32"	4' - 1-3/4"	10'- 2-1/4"	25"	25"	24"	65-1/2"
32' - 101'	10'- 2-1/4"	40' - 2-1/4"	11' - 11-1/4"	32'- 7-13/32"	4' - 1-3/4"	10' - 2-1/4"	25"	25"	24"	65-1/2"

MORE PROFITABLE MORE VERSATILE

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 carrier mounted cranes, Grove also offers a complete line of self-propelled cranes including a 30-ton model with performance features, reach and capacity to match the TM275LP. Ask your Grove Distributor for details.



HYDRAULIC CRANES

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