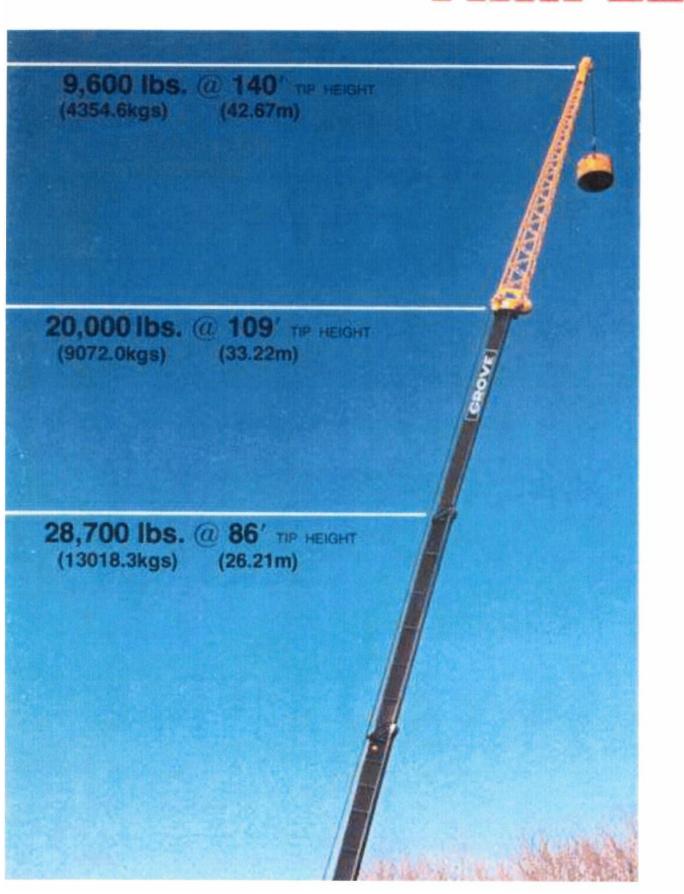


GROVE TRAPEZOID



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The TM capacitie crane (3) Trapezo strength crane oprigidity : Trapezoi high strei wider a resistanc and resu boom op The fifth: a 32' (9. sion which boom ba: working (



SUPERSTRUCTURE SPECIFICATI

- BOOM 34 ft. 136 ft. (10.36m to 41.45m), 5 section boom; 2 full power and 1 power pinned trapezoidal sections to 104 ft. (31.7m) plus a 32 ft. (9.7m) "Swingaway" lattice extension. Integral check valves on each telescope cylinder. Boom telescope sections are individually controlled and supported on graphite impregnated nylatron wear pads.
- BOOM NOSE Three sheaves mounted on heavy duty tapered roller bearings. Removable pin type rope guards allow easy reeving. Rope dead ends on each side of boom nose.
- BOOM ELEVATION Dual double-acting hydraulic cylinders with integral holding valves; elevation from -6° to 78°. Combination controls provided for hand or foot operation.
- "LOAD MOMENT AND ANTI-TWO BLOCK SYSTEM (KRUGER) Audio-visual warning in combination with Grove control lever lockout of: hoist up. telescope out and boom down functions.
- CAB Full vision, all-steel, fully enclosed with acoustical treatment, laminated safety glass windows throughout, removable windshield with storage provisions, hinged tinted skylight, sliding left side door, rear vent window. adjustable full length control levers, combination hand and foot controls for swing and boom elevation. Fully adjustable operator's seat with head rest. Complete engine instrumentation and controls. Neutral safety start. Combination hand and foot throttle. All crane superstructure and outrigger controls, sight leveling bubble, electronic boom angle indicator. propane heater, defroster fan, electric windshield wiper, swing horn, door and window locks, domelight, dashlight, 2% lbs. (1.25kg) dry type fire extinguisher. (Air conditioning available).
- CAB INSTRUMENTATION Engine oil pressure gauge, engine water temperature gauge, voltmeter, tachometer, fuel level gauge, ignition-on indicator light.

- SWING Ball bearing swing c Glide Swing" with foot turntable brake and hand Combination controls pro 2.6 RPM.
- **OUTRIGGER CONTROLS** from superstructure cat accidental outrigger actual
- COUNTERWEIGHT 9,500 power installed and rem with auxiliary hoist.

HYDRAULIC SYSTEM:

RESERVOIR - 127 gal with integral baffles, c oil sight level.

FILTER - Return line ty by-pass indicator, re-

PUMPS - Four section. manual pump disco capacity 146 GPM (5

CONTROL VALVES - I load check, main and permitting simultaned Maximum operating

OIL COOLER - Full flow POWER DISTRIBUTION (Boom elevation, in: boost) (Swing).

HOIST SPECIFICATIONS

DESCRIPTION: Series parallel speed ranges. Power up and do matic brake.	DESCRIPTI planetary re	
HOIST DATA	MAIN HOIST Grove Model 32S-1716A	"AUXILIA! Grove Mod 12 in. dia. (305: 16 in. length (40 17.5 in. dia. flar
Drum Dimensions	16 in. dia. (406mm) 16 in. length (406mm) 24 in. dia. flange (610mm)	
Performance: Max. Single Line Speed Max. Single Line Pull	Hi-Speed Range Lo-Speed Range 525 FPM (160.02m/min) 265 FPM (80.77m/min) 8,400 lbs. (3810kg) 16,800 lbs. (7620kg)	200 FPM (60.9 9165 lbs. (4157
Drum Rope Storage Capacity	**650 ft. of ¾ in. dia. rope (198.12m of 19mm)	720 ft. of ½ in. (219.45m of 480 ft. of % in. (146.30m of
Permissible Single Line	34 in. (19mm) 6x41 class - 14.605 lbs. (6625kg)	1/2 in. (13mm)

CARRIER SPECIFICATIONS

GROVE CARRIER 8 x 4

- OUTRIGGERS Hydraulic, double-box telescoping beam outriggers. Removable beams, vertical jack cylinders with integral holding valves and 24 in. (610mm) dia. aluminum floats. Mechanical spin locks on each vertical jack to secure outriggers at any level. Beams extend to 18 ft. (5.49m) centerline to centerline, retract to 8 ft. (2.44m) overall width. Full controls and sight leveling bubble located in superstructure cab. Powered by carrier engine.
- FRAME High-strength steel, all welded construction with box type design and integral welded outrigger boxes.
- STEERING GEAR Ross TE-70 cam and lever type with Garrison hydraulic power assist.
- CLUTCH Lipe Rollway 14 in. (356mm), two plate dry disc. Lining area: 428 sq. in. (2761cm²).
- TRANSMISSION Fuller Roadranger (RTO613), 13 speeds forward and 3 reverse.
- UNIVERSAL JOINTS Needle bearing type.
- AXI.ES Front: (2) Rockwell, FH-901, 33,000 lb. (24 969kg) capacity. Rear: (2) Rockwell SSHD, 72 in. (1.83m) track, 44,000 lb. (19 958kg) capacity with inter-axle differential and dash mounted control.
- SUSPENSION Front: Reyco 21B spring mounted tandem. Rear: Hendrickson R440 solid mounted tandem.
- FUEL TANK Single 90 gallon (341 liters) capacity mounted on left side of frame.
- TIRES Front: 12.00 x 20-16 ply hiway tread. Rear: 11.00 x 20-14 ply NDM & S tread, tube type.

- WHEELS Front: Steel spoke spoke 8 in. x 20 in. (203rr
- BRAKES Stopmaster wedge compressor.
 - Total lining area: 1,508 sq Front: 15 in. x 5 in. (381r 178mm).
- PARKING BRAKE Spring se emergency release kit.
- ELECTRICAL SYSTEM 12 standard lights and reflect
- CAB Low-profile, one man, safety glass windshield a wiper, door and window West Coast mirrors, dom fan, electric horn, traffic it engine instruments and c extinguisher. (Air condition
- CAB INSTRUMENTATION E voltmeter, speedometer, a water temperature gauge, visual warning, ignition-on
- MISCELLANEOUS STANDAR channel front bumper, two automatic radiator shutters block tie down and mud fla

SPEED AND GRADEABILITY

Engine	Speed Ranges	% of Gradeability @ Max. Torque
GM6-71N	2.86 to 51.16 MPH (5 to 82 Km/h)	40.99 to .88%
*Cummins NHF-240	3.13 to 56.04 MPH (5 to 90 Km/h)	40.27 to .84%

NOTE: Performance based on 66,000 lb. (29 938kg) GVW and standard SAE engine rating conditions using standard tires, transmissions and exles. Performance data may vary plus or minus 10% due to variations in engine pérformance and vehicle weights.

ENGINE !

MAKE & MODEL	GM6-7
TYPE	6 Cylin
BORE & STROKE	4.25 in
	(108
DISPLACEMENT	426 cu
NET HORSEPOWER	213 @
GOVERNED RPM	2100 F
NET TORQUE	582 lb.
ELECTRICAL SYSTEM	12-volt
COMBUSTION SYSTEM	Million Block Anida
	blow
COOLING SYSTEM	Liquid
FUEL CAPACITY	90 Gal
ALTERNATOR	62 AM
BATTERY	(2) 204
AIR CLEANER	Dry Ty
AIR COMPRESSOR	12 CF1
HOURMETER	Yes

DIMENSIONS

IN COMMAND . . . no barriers to operator's visibility when placing loads at high elevation. Windshield is easily removed and stored and tinted skylight raises to provide unobstructed view.

of Grove design and manufacture except for the optional free fall hoist. The main hoist is the Grove two-speed which permits both high line pull and high line speed without changes in lagging or gearing. At the flick of the electro-pneumatic speed-shift, the operator can change from maximum line pull of 16,800 lbs. (7621kg) to top line speed of 525 fpm (160 m/min.).



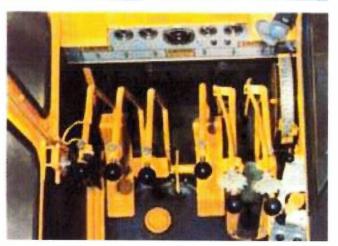




GROVE "PLANETARY GLIDE SWING"

Smooth, precise continuous swing is assured with a large antifriction bearing swing circle and the Grove "Planetary Glide Swing" gear box. Swing action is accurate and instantaneous to the touch of the combination hand/foot controls. Glide swing with foot-actuated disc brake is standard.

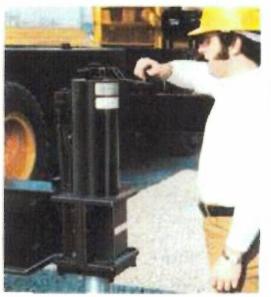
DESIGNED FOR SAFETY AND EFFICIENCY... The interior of the all-steel cab is designed for operator convenience, efficiency and safety. Full length





THE GROVE CARRIER

The TMS300LP features a Grove designed and built diesel powered carrier, matched to the particular requirements of this outstanding 35-ton crane (30-ton metric). The 8 foot (2.44m) wide carrier has a wheelbase of 224 inches (5.69m) and a turning radius of under 40 feet (12.19m). The all-welded steel frame in combination with the 18 foot (5.49m) outrigger spread provides an exceptionally stable lifting base.





EXCLUSIVE GROVE SCREW-LOCK

permits the outrigger jacks to be locked in any position. Long thrust vertical jacks assure quick, easy leveling on uneven terrain. Jacks are also fitted with integral check valves.

tPaterand Grove Finature

DOUBLE-BOX BEAM OUTRIGGERS.

integral with the frame, provide an 18-foot (5.49m) spread for maximum stability. Beams and jacks are independently controlled from superstructure cab which permits variable outrigger positioning for working in tight quarters. Stowable, 24-inch (610mm) diameter, aluminum alloy outrigger pads combine lightweight ease of handling with excellent flotation.



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