



**OUTRIGGERS** — Hydraulic double box 2-stage telescoping beam outriggers, integral welded boxes, removable beams, vertical jack cylinders with integral holding valves and 30½ in. (775mm) diameter steel floats. Beams extend to 20 ft. (6.1m) centerline-to-centerline, retract to 8 ft. (2.4m) overall width. Mechanical spin locks on each vertical jack to secure outriggers at any level. Controls and sight leveling bubble in superstructure cab. Powered by carrier engine.

**FRAME** — High-strength steel, all-welded construction with triple 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. Total area: 428 sq. in. (2761cm<sup>2</sup>).

**TRANSMISSION** — Fuller Roadranger (RT06613), 13 speeds forward and 3 reverse.

**UNIVERSAL JOINTS** — Needle bearing type.

**AXLES** — Front (2) Rockwell FL-931, 81 7/8 in. (2.1m) track, 36,000 lb. (16 330 kg) capacity. Rear (2) Rockwell SSHD, 72 in. (1.8m) track, 46,000 lb. (20 866 kg) capacity with inter-axle differential and dash mounted control. Pusher axle (1) Rockwell air controlled from cab, non drive/steer 18,540 lbs. (8410 kg) capacity.

**SUSPENSION** — Pusher: Neway air bag.

Front- Reyco 21B spring

Rear - Hendrickson R441 Solid

**FUEL TANK** — Single 96 gallon (363 liter) capacity mounted on left side of frame.

**TIRES** — Front: 11:00 x 20, 14 P.R., tube-type Hi-way.

Pusher & Rear: 11:00 x 20, 14 P.R., tube-type ND-M&S.

**WHEELS** — All wheels, steel spoke 8 in. x 20 in. (203mm x 508mm).

**BRAKES** — Full air on all 10 wheels. Total lining area: 2072 sq. in. (13,368 cm<sup>2</sup>) Front: 15 in. x 6 in. (381mm x 152mm) Pusher & Rear: 15 in. x 7 in. (381mm x 178mm).

**PARKING BRAKE** — Spring set emergency chambers on both rear axles with emergency release kit. (Note: Not on pusher axle).

**CAB** — Low profile, one man, all-steel, with acoustical treatment, laminated safety glass windshield and windows; windshield washer and electric wiper, door and window locks. Bostrom "T" bar seat belt, dual West Coast mirrors, dome light, dash light, hot water heater, defroster fan, electric horn, traffic hazard warning switch (four-way flasher), full engine instruments and carrier controls, 3 3/4 lb. (1.7kg) dry type fire extinguisher. (Air conditioning available).

**CAB INSTRUMENTATION** — Tachometer, engine oil pressure gauge, volt-meter, speedometer, air pressure gauge, electric fuel gauge, engine water temperature gauge, high beam indicator, low air pressure audio-visual warning, ignition-on indicator.

**MISCELLANEOUS STANDARD EQUIPMENT** — Wheel nut wrench and handle, channel front bumper, two front towing loops, front and rear fenders, ether injection starting aid (less bottle), hook block tie down and mud flaps.

**ELECTRICAL SYSTEM** — 12-volt lighting, 24-volt starting.

#### SPEED AND GRADEABILITY

| Engine               | Speed Ranges<br>@Max. Governed<br>RPM | % of Gradeability<br>@Max. Torque |
|----------------------|---------------------------------------|-----------------------------------|
| GM6-71N              | 2.87 to 51.36 MPH<br>(5 to 82.7 Km/h) | 35.75% to 0.58%                   |
| *Cummins<br>NTCC-230 | 2.85 to 51.05 MPH<br>(5 to 82.2 Km/h) | 35.81% to 0.59%                   |

**NOTE:** Performance based on 75,000 lb. (34 020kg) GVW and standard SAE engine rating conditions using standard tires, transmissions and axles. Performance data may vary plus or minus 10% due to variations in engine performance and vehicle weights.

#### CARRIER ENGINE SPECIFICATIONS

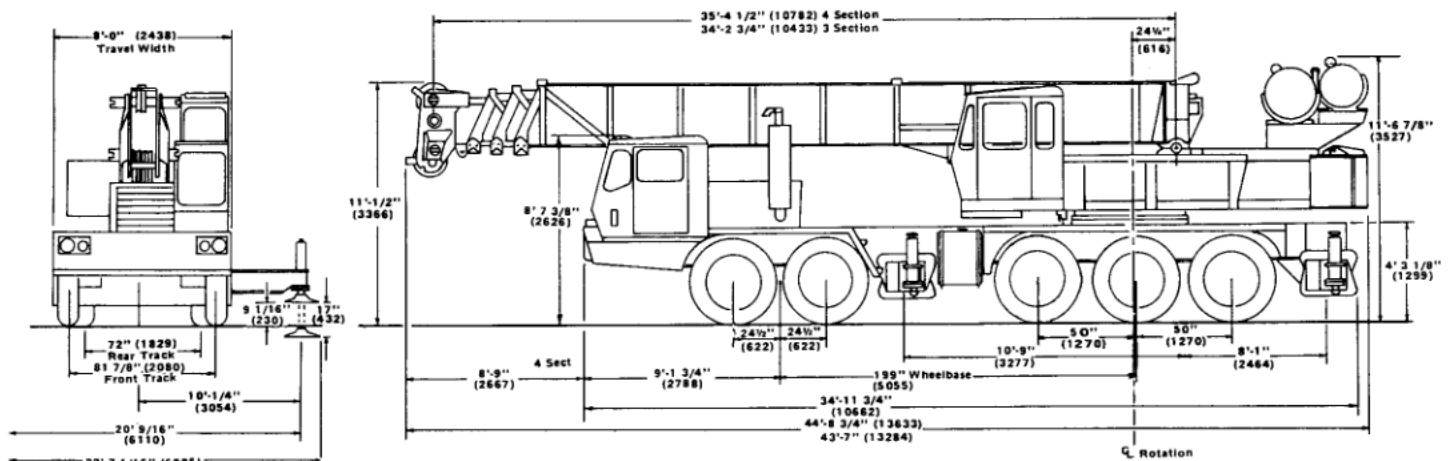
| MAKE & MODEL<br>TYPE<br>BORE<br>STROKE<br>DISPLACEMENT<br>HORSEPOWER<br>(GROSS)<br>HORSEPOWER (NET<br>FLYWHEEL)<br>GOVERNED RPM<br>TORQUE (NET<br>FLYWHEEL)<br>ELECTRICAL SYSTEM<br>STARTING SYSTEM<br>COMBUSTION SYSTEM<br>COOLING SYSTEM CAP.<br>FUEL TANK CAP.<br>ALTERNATOR<br>•BATTERY<br>AIR COMPRESSOR<br>AIR CLEANER<br>+HOURMETER | GM6-71N<br>6 Cylinder OHV, Diesel<br>4.25 in. (108mm)<br>5 in. (127mm)<br>426 cu. in. (6982cm <sup>3</sup> )<br>230 @ 2100 RPM<br>203 @ 2100 RPM<br>2100<br>551 ft. lb. (76.2kg-m)<br>@1600 RPM<br>12-volt negative ground<br>24-volt<br>2 cycle w/blower<br>13 gal (49 liter)<br>96 gal (363 liter)<br>90 AMP<br>(4) 475 CCA @ 0°F<br>12 CFM (45.4 liters/min)<br>1 Stage dry type<br>Std. | *Cummins NTCC-230<br>6 Cylinder OHV, Diesel<br>5.5 in. (140mm)<br>6 in. (152mm)<br>855 cu. in. (14 011 cm <sup>3</sup> )<br>230 @ 2100 RPM<br>205 @ 2100 RPM<br>2100<br>588 ft. lb. (81.3kg-m)<br>@1300 RPM<br>12-volt negative ground<br>24-volt<br>4 cycle, turbo charged<br>13 gal (49 liter)<br>96 gal (363 liter)<br>90 AMP<br>(4) 475 CCA @ 0°F<br>13.2 CFM (50.0 liters/min)<br>1 Stage dry type<br>Std. |
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\*Denotes optional equipment

•CCA = Cold Cranking Amperage per battery

+Located inside engine compartment

## DIMENSIONS



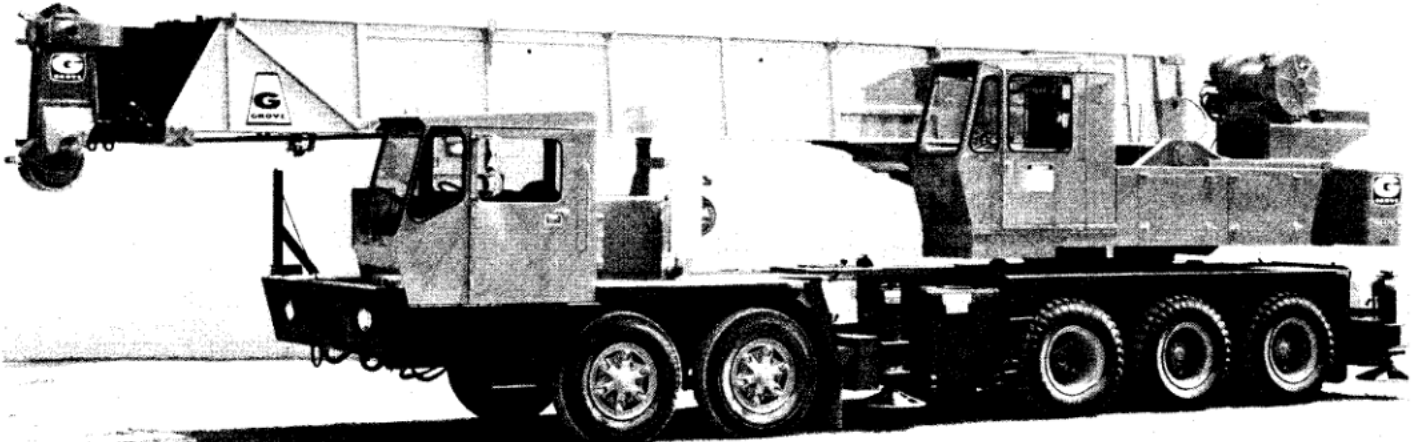
TAIL SWING 10' (3050) COUNTERWEIGHT RETRACTED  
TAIL SWING 12' 1/16" (3659) COUNTERWEIGHT EXTENDED

**NOTE:** Figures in parentheses ( ) are metric equivalents expressed in millimeters.

## AXLE WEIGHT DISTRIBUTION CHART 10 x 4 CARRIER

| ITEM                                                                                                                                                                                                                                                                        | POUNDS |        |        |        | KILOGRAMS |        |        |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|-----------|--------|--------|--------|
|                                                                                                                                                                                                                                                                             | GROSS  | FRONT  | REAR   | PUSHER | GROSS     | FRONT  | REAR   | PUSHER |
| Basic standard machine to include: 34 ft. - 84 ft. (10.4m - 25.6m) trapezoidal boom plus 32 ft. (9.7m) swingaway extension, Grove model 32S-1716B main hoist w/500 ft. (152.4m) of 3/4 in. (19mm) rope, * 7500 lbs. (3402 kg.) counterweight, Grove 10 x 4 carrier, GM6-71N |        |        |        |        |           |        |        |        |
| 1. Pusher Axle inflated to 3 PSI                                                                                                                                                                                                                                            | 76,884 | 29,770 | 44,754 | 2,360  | 34,875    | 13,504 | 20,300 | 1,071  |
| 2. Pusher Axle inflated to 50 PSI                                                                                                                                                                                                                                           | 76,884 | 24,831 | 34,933 | 17,120 | 34,875    | 11,263 | 15,846 | 7,766  |
| ADD:                                                                                                                                                                                                                                                                        |        |        |        |        |           |        |        |        |
| 50 ton (45MT) hookblock (travel position)                                                                                                                                                                                                                                   | +700   | +1,134 | -434   |        | +317      | +514   | -197   |        |
| Auxiliary boom head (4 Sect.)                                                                                                                                                                                                                                               | +200   | +380   | -180   |        | +91       | +172   | -81    |        |
| Kruger LMI & anti-2-block                                                                                                                                                                                                                                                   | +376   | +184   | +192   |        | +170      | +83    | +87    |        |
| *Grove 32S-1716B auxiliary hoist w/400 ft. (121.9m) of 3/4 in. (19mm) rope                                                                                                                                                                                                  | +2,317 | -890   | +3,207 |        | +1,051    | -404   | +1,455 |        |
| *Grove 15S-16B auxiliary hoist w/400 ft. (121.9m) of 5/8 in. (16mm) rope                                                                                                                                                                                                    | +1,059 | -409   | +1,468 |        | +480      | -186   | +666   |        |
| *Gearmatic 11 SGEGR auxiliary hoist w/400 ft. (121.9m) of 1/2 in. (13mm) rope                                                                                                                                                                                               | +1,121 | -433   | +1,554 |        | +509      | -196   | +705   |        |
| 24 ft. (7.3m) A-frame jib (stowed)                                                                                                                                                                                                                                          | +895   | +761   | +134   |        | +406      | +345   | +61    |        |
| SUBSTITUTE:                                                                                                                                                                                                                                                                 |        |        |        |        |           |        |        |        |
| 4 section 35 ft. - 110 ft. (10.7m - 33.5m) boom w/32 ft. (9.7m) swingaway                                                                                                                                                                                                   | +2,458 | +2,789 | -331   |        | +1,115    | +1,265 | -150   |        |
| Cummins NTCC 230 engine                                                                                                                                                                                                                                                     | +620   | +620   | -      |        | +281      | +281   | -      |        |
| *7000 lbs. (3175 kg) counterweight                                                                                                                                                                                                                                          | -500   | +177   | -677   |        | -227      | +80    | -307   |        |
| *6100 lbs. (2767 kg) counterweight                                                                                                                                                                                                                                          | -1,400 | +497   | -1,897 |        | -635      | +225   | -860   |        |
| REMOVE:                                                                                                                                                                                                                                                                     |        |        |        |        |           |        |        |        |
| 32 ft. (9.7m) swingaway (w/3 section boom)                                                                                                                                                                                                                                  | -1,405 | -1,312 | -93    |        | -637      | -595   | -42    |        |
| 32 ft. (9.7m) swingaway (w/4 section boom)                                                                                                                                                                                                                                  | -1,405 | -1,398 | -7     |        | -637      | -634   | -3     |        |
| 32S-1716B main hoist w/500 ft. (152.4m) of 3/4 in. (19mm) rope                                                                                                                                                                                                              | -2,421 | +605   | -3,026 |        | -1,098    | +274   | -1,372 |        |
| Front outrigger beams & jacks (2)                                                                                                                                                                                                                                           | -3,000 | -2,063 | -937   |        | -1,361    | -936   | -425   |        |
| Rear outrigger beams & jacks (2)                                                                                                                                                                                                                                            | -3,000 | +964   | -3,964 |        | -1,361    | +437   | -1,798 |        |

\*NOTE: Appropriate superstructure counterweight substitution must be made depending on hoist configurations selected  
 6100 lbs. (2767 kg) 32S-1716B auxiliary hoist  
 7000 lbs. (3175 kg) with 15S-16B or Gearmatic 11SGEGR main hoist  
 7500 lbs. (3402 kg) without auxiliary hoist



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