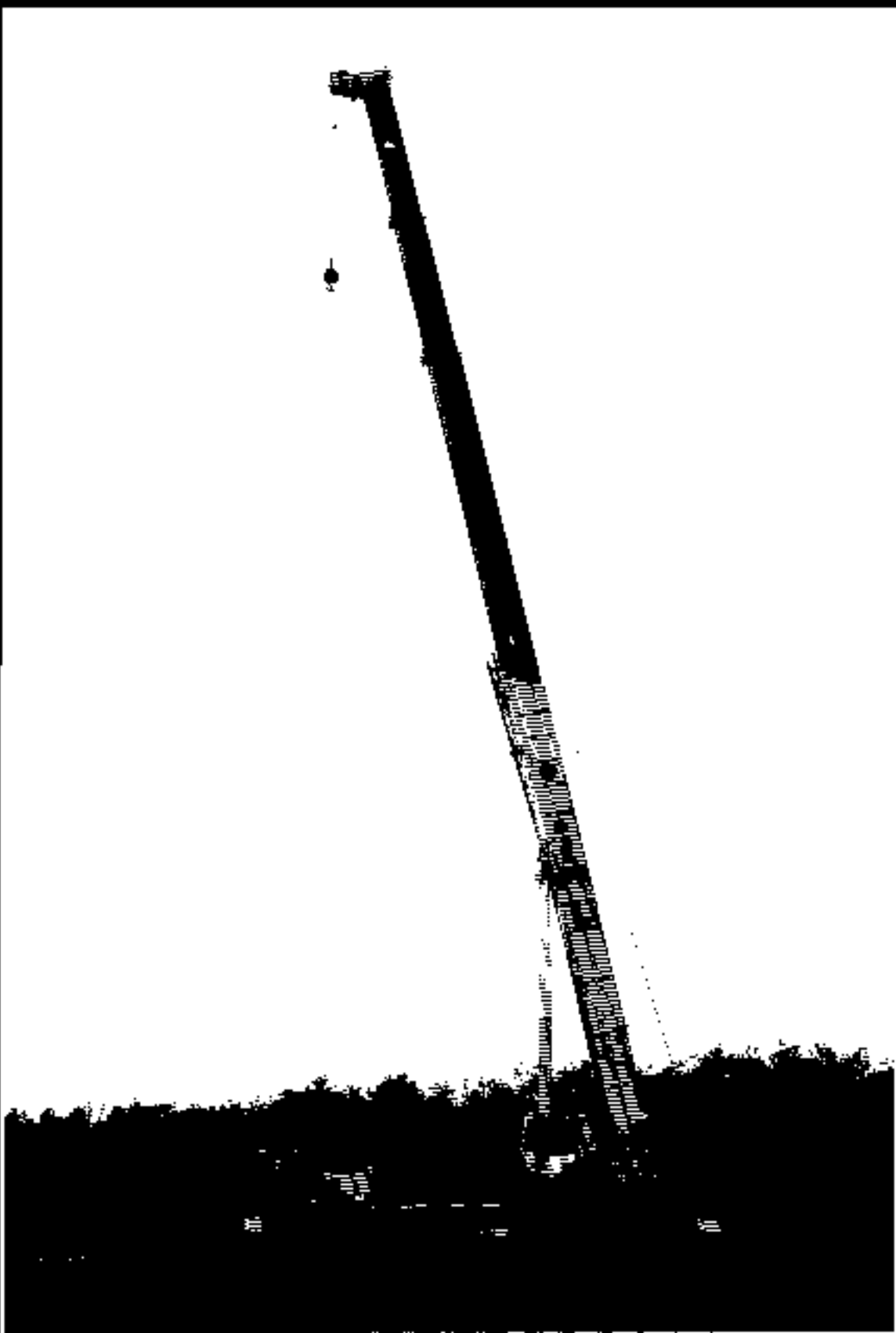




**GROVE**  
worldwide

Carrier-Mounted Hydraulic Crane Specifications

# TM800B



# Carrier specifications

|                           |                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frame</b>              | High strength alloy steel all welded box-type construction with integral outrigger housings and front/rear lifting, towing and tie down lugs.                                                                                                                                                                                                                         |
| <b>Outrigger System</b>   | Hydraulic single stage double box telescopic beam and outriggers with integral holding valves. Inverted jack cylinders (4). Standard 5th vertical jack mounted to the front frame section to permit 360° lifting capabilities. All steel fabricated quick release type outrigger floats 30.5" (775mm) diameter. Maximum outrigger pad load 103,434 lbs. (46,918 kgs). |
| <b>Outrigger Controls</b> | Located in superstructure cab and both sides of carrier. Push button controls requiring two-handed operation. Crane level indicator (sight bubble) adjacent to controls.                                                                                                                                                                                              |
| <b>Engine</b>             | Cummins NTA855C six cylinder turbo-charged after cooled diesel 855 cu. in. (14 L) 310 bhp (231 kw) (gross) @ 2100 RPM. Maximum torque 1005 ft. lbs. (139 kg/m) @ 1400 RPM.                                                                                                                                                                                            |
| <b>Fuel Tank Capacity</b> | (1) 100 gallons (379 L)                                                                                                                                                                                                                                                                                                                                               |
| <b>Electrical System</b>  | Two 12-volt - maintenance free batteries, 24 volt starting.                                                                                                                                                                                                                                                                                                           |
| <b>Drive</b>              | 8 x 4                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Steering</b>           | Front axle steering, worm and lever type with hydraulic assist.                                                                                                                                                                                                                                                                                                       |
| <b>Transmission</b>       | Roadranger gearbox with 9 speeds forward and 2 reverse, with 2 speed auxiliary transmission.                                                                                                                                                                                                                                                                          |
| <b>Axles</b>              | Axles 1 & 2, steering, tubular steel, 102 in. (2591mm) track.<br>Axles 3 & 4, single reduction drive, 100 in. (2540mm) track.                                                                                                                                                                                                                                         |
| <b>Suspension</b>         | Front axles (1 & 2) spring mounted tandem.<br>Rear axles (3 & 4) solid mount tandem with equalizing beam and solid steel saddles.                                                                                                                                                                                                                                     |
| <b>Tires</b>              | Front: 445/65R22.5-20PR radial, highway tread singles.<br>Rear: 12.00R20-18PR highway tread tube type duals.                                                                                                                                                                                                                                                          |
| <b>Optional Tires</b>     | Rear: 365/80R20-20PR highway tread tube type duals.                                                                                                                                                                                                                                                                                                                   |
| <b>Brakes</b>             | Full air on all wheels. Air dryer provided to preclude moisture accumulation. Spring set emergency brake on both rear axles with emergency release.                                                                                                                                                                                                                   |
| <b>Lights</b>             | Full lighting including head, tail, braking, reversing, directional and hazard warning lights                                                                                                                                                                                                                                                                         |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cab</b> | One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered fully adjustable seat. Complete driving controls and engine instrumentation including tachometer, speedometer, voltmeter, water temp. oil pressure, fuel level, air pressure gauge with A/V warning. Other standard items include hot water heater/defroster, electric windshield washer-wiper, fire extinguisher, seat belt and door and window locks. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                              |                                                                                                                                                                                                                                             |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum Speed</b>                         | 49.7 MPH (80 kph)                                                                                                                                                                                                                           |
|                                              | BASIC STANDARD MACHINE                                                                                                                                                                                                                      |
| <b>Gross Vehicle Weight &amp; Axle Loads</b> | Front Tandem: 41,922 lbs. (19,016 kgs)<br>Rear Tandem: 59,168 lbs. (26,839 kgs)<br>G.V.W.: 101,090 lbs. (45,855 kgs)                                                                                                                        |
| <b>Miscellaneous Standard Equipment</b>      | Dual rear view mirrors, hookblock tiedown sling, electronic back-up alarm, light package, engine low oil pressure/high water temperature audio visual warning, carrier mounted outrigger controls, Jacobs engine brake, tire inflation kit. |
| <b>Optional Equipment</b>                    | Immersion engine block heater, trailing boom prep., trailer air and electrical, air conditioning.                                                                                                                                           |

\*Denotes optional equipment.

# Superstructure specifications

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Boom</b>                                    | 40 ft. - 125 ft. (12.1m - 38.1m) four section Trapezoidal boom, sequenced-synchronizing. Telescopic sections slide on adjustable and replaceable Nylatron pads.<br>Maximum Tip Height: 133 ft. (40.5m).                                                                                                                                                                                             |
| <b>Telescopic Swingaway</b>                    | 32 ft. - 44 ft. - 56 ft. (9.8m - 13.4m - 17.1m) telescopic lattice swingaway extension with offset links, offsettable at 2°, 15° or 30°. Stows alongside base boom when not in use.<br>Maximum Tip Height: 188 ft. (57.3m)                                                                                                                                                                          |
| <b>Boom Nose</b>                               | Six steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards.<br>*Optional removable single sheave auxiliary boom nose with removable pin type rope guard.                                                                                                                                                                                                   |
| <b>Boom Elevation</b>                          | Two double acting hydraulic cylinders with integral holding valve provide elevation from -3.75° to 81.5°.                                                                                                                                                                                                                                                                                           |
| <b>Load Moment &amp; Anti-Two Block System</b> | Standard load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block conditions.                                                                                              |
| <b>Cab</b>                                     | Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Dash panel incorporates gauges for all engine functions. Other standard features include: hinged skylight, sliding left side door and sliding right side window, electric windshield washer-wiper, circulating air fan, heater, swing horn, fire extinguisher, seat belt. *Optional: air conditioning. |
| <b>Swing</b>                                   | Ball bearing swing circle with 360° continuous rotation. Grove planetary "glide-swing" with foot actuated disc brake, spring applied hydraulically released park brake and 360° position positive turntable lock. Combination controls provided for hand or foot operation. Swing speed 1.4 RPM.                                                                                                    |
| <b>Counterweight</b>                           | Fixed position pinned to turntable. Power installation and removal system. Weight varies depending on hoist configuration.                                                                                                                                                                                                                                                                          |

## HYDRAULIC SYSTEM

|                   |                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pumps</b>      | Two tandem main gear pumps driven by carrier engine through PTO with manual disconnect.<br>Combined capacity 188 GPM (678 LPM).            |
| <b>Valves</b>     | Precision four way double acting control valves, 4 individual valve banks permit simultaneous control of multiple crane functions.         |
| <b>Filter</b>     | Return line type, full flow with by-pass protection and filter by-pass indicator, replaceable cartridge, 7/17/22 micron filtration rating. |
| <b>Reservoir</b>  | 197 gallons (746 L) with spin-on breather filter, external sight gauge, clean out access, strap mounted to frame.                          |
| <b>Oil Cooler</b> | Full flow, fin and tube, oil to air.                                                                                                       |

## HOIST SPECIFICATIONS

Series parallel circuitry and two motors provide both high line pull and speed ranges. Power up and down, equal speed, planetary reduction with integral automatic brake and electronic hoist drum rotation indicator.

| Main and *Auxiliary Hoist<br>Grove H030B-26 |                    |                                                                                            |                          |
|---------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|--------------------------|
| Make/Model                                  |                    | High Range                                                                                 | Low Range                |
| <b>Maximum single line speed</b>            | Bottom layer       | 458 FPM<br>(140m/min)                                                                      | 229 FPM<br>(70m/min)     |
|                                             | Intermediate layer | 534 FPM<br>(163m/min)                                                                      | 267 FPM<br>(81m/min)     |
|                                             | Top layer          | 608 FPM<br>(185m/min)                                                                      | 304 FPM<br>(92m/min)     |
| <b>Maximum single line pull</b>             | Bottom layer       | 8,161 lbs.<br>(3701 kg)                                                                    | 16,322 lbs.<br>(7402 kg) |
|                                             | Intermediate layer | 7,028 lbs.<br>(3187 kg)                                                                    | 14,056 lbs.<br>(6375 kg) |
|                                             | Top layer          | 6,172 lbs.<br>(2799 kg)                                                                    | 12,344 lbs.<br>(5598 kg) |
| <b>Maximum permissible line pull</b>        |                    | 12,920 lbs.<br>(5860 kg)                                                                   |                          |
| <b>w/5:1 strength factor</b>                |                    | 3/4 in. (19mm) 18 x 19 class                                                               |                          |
| <b>Maximum rope stowage</b>                 |                    | 832 ft. (253m)<br>3/4 in. (19mm)                                                           |                          |
|                                             |                    | Note: 650 ft. (198m) length of 3/4 in. (19mm) wire rope supplied with basic standard unit. |                          |

\*Denotes optional equipment

