MORE VERSATILE  
MORE PROFITABLE  

for a wider  
variety of lifting & handling jobs!

THE PREFERENCE FOR GROVE CRANES among profit-minded 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 rough terrain cranes, Grove also offers a complete line of carrier-mounted cranes including an 80-ton model with a boom tip height of 180'. Ask your Grove Distributor for details.

TOTAL PERFORMANCE

GROVE is the NUMBER ONE producer of hydraulic cranes for just one reason...Grove cranes deliver profit-making performance. When the smart buyer puts his money on the line, he wants to know that every dollar he spends is going to work for him every day that he owns that crane. He wants measurable value and that's why thousands of profit-minded crane users are willing to pay slightly more for the extra values found in Grove Hydraulic cranes.

GROVE FULL HYDRAULIC SELF-PROPELLED CRANE
MODEL RT63S
30 Ton Capacity

FEATURES

- 60,000 lbs. Capacity at 12'
- Hook Height 137 ft. maximum
- Turntable-Mounted Control Cab
- 4-Wheel Drive, 4-Wheel Steer
- 4-Wheel Power-Assist Brakes
- Hoist Speeds To 360 fpm
- Front and rear hydraulic double-box telescoping boom outriggers and enclosed vertical jacks are independently controlled from cab. Maximum outrigger extension is 16' 11”, center of jacks.
**SPECIFICATIONS**

**BOOMS** — 24 ft. 60 ft., 3 section, full power telescoping.
- 32 ft. 60 ft., 3 section, full power telescoping.
- 29 ft. 62 ft., 4 section, power telescoping.

Two full power sections, fly section power extended and retracted from jibbed position. Pendulum boom angle indicator. Boom telescopic sections are individually controlled. Each boom section supported on graphite impregnated nylon wire pads.

**BOOM NOSE** — Fixed boom nose with integral rope guard. Four sheaves mounted on anti-friction bearings. Rope dead ends on each side of boom nose for brake operation.

**BOOM ELEVATION** — Dual double-acting hydraulic cylinders with integral holding valves; 0° to 17° elevation.

**JIBS** — 20 ft. “Slow” for all booms. 24 ft. “Slow” for 32 ft. 60 ft. or 29 ft. 62 ft. booms. 24 ft. 40 ft. “Fast” for dual steering cylinders to 22 ft. 60 ft. or 29 ft. 62 ft. booms. All jibs have self-equalizing suspension and (6) brake stops.

**SWING** — Grove planetary swing, 360° continuous rotation ball bearing swing ring. Speed 2.5 RPM, automatic swing brake. Manual turntable lock (slung type) for road travel.

**CAB** — Turntable mounted, full vision enclosed steel cab with safety glass throughout. Skylight window for additional cab ventilation. Gasoline heater, tachometer, windshield wiper, fire extinguisher and left hand door with door lock. Includes all engine instruments, controls for driving and crane function controls.

**OUTRIGGERS** — Hydraulic double-box integral with main frame; telescoping booms, enclosed vertical jacks with integral check valves and mechanical pin locks, beams extend to 10 ft. 11 in. centerline to centerline, retract to 9 ft. 8 in. overall width. Independent or simultaneous control in-out and down. Outrigger controls in operator’s cab. Sequencing control arrangement eliminates accidental actuation.

**MAIN FRAME** — All welded construction with full depth longitudinally and transversely. Frame reinforced at critical points to assure rigid turntable mounting.

**TRANSMISSION AND TORQUE CONVERTER** — Engine mounted, 1:01:1 ratio with FDG for hydraulic pumps. Remote mounted full powershift with rear axle disconnect.

**SPEEDS** — 4 forward and 4 reverse.

**TURNING RADIUS** — 20 ft.

**AXLES** — Front: Planetary drive with dual steering cylinders mounted rigid to frame. Rear: Planetary drive with dual steering cylinders mounted to allow 0 in. to 12 in. oscillation.

**OSCILLATION LOCKOUTS** — Automatic hydraulic on rear axle. Allows oscillation with automatic superstructure front.

**SERVICE BRAKES** — Full air on all four wheels.

**Size:** 20 in. x 5 in.

**PARKING BRAKES** — Front axle equipped with spring set emergency and parking brakes.


**TIRES** — 21.00x25, 24 ply Wide Base Earthmover tubes. 18.00x25-25, 20 ply Earthmover, tubes. 26.5x25-20 Wide Base Earthmover tubes.

**HYDRAULIC SYSTEM** — Reservoir: 180 gallon capacity, all steel weldon construction with integral baffles, clean-out access and level check.

**FILTER** — Return line replaceable cartridge with bypass valve for protection.

**PUMPS** — 2 main gear pumps, 120 GPM capacity.

**CONTROL VALVES** — Precision four-way double-acting with integral load check, main and control relief valves. Three banks permitting multiple control of crane functions. Operating pressure 2250 PSI maximum.

**OIL COOLER** — Full flow, fin and tube, oil to air.

**POWER DISTRIBUTION** — (Man hoist, auxiliary hoist); (1) boom extension, (1) boom retraction, (2) winches, (2) hoist, (2) auxilary hoist, (1) superstructure, (2) auxiliary superstructure.

**DIMENSIONS**

<table>
<thead>
<tr>
<th>TAIL SWING 11'-1&quot; TURNING RADIUS 20'</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRONT VIEW</strong></td>
</tr>
<tr>
<td>21.00x25</td>
</tr>
<tr>
<td>18.00x25</td>
</tr>
<tr>
<td>26.5x25</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SIDE VIEW</th>
<th><strong>D&quot;</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>24'4&quot; DOOM</td>
<td>10'-9.5&quot;</td>
</tr>
<tr>
<td>28'8&quot; DOOM</td>
<td>14'-9.5&quot;</td>
</tr>
<tr>
<td>29'8&quot; DOOM</td>
<td>13'-9.5&quot;</td>
</tr>
</tbody>
</table>

**ENGINE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MAKE TYPE</th>
<th><strong>CUMMINS DIESEL V-59A</strong> 4 cylinder O.H.V., 4,625 in. x 3.75 in. 350 HP, 1,400 rpm, 2,600 RPM 42-71 ft.</th>
<th><strong>DETROIT DIESEL 6V-93N</strong> 6 cylinder O.H.V., 3,875 in. x 4.50 in. 350 HP, 1,780 rpm, 2,000 RPM 42-71 ft.</th>
<th><strong>CATERPILLAR 3155 D</strong> 6 cylinder 717 in. x 4.5 in. 350 HP, 1,780 rpm, 2,000 RPM 42-71 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUEL CAPACITY</td>
<td>93 gallons</td>
<td>93 gallons</td>
<td>93 gallons</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>TRANSMISSION RANGE</th>
<th><strong>MPH 0 R.P.M.</strong></th>
<th>% OF GRADEABILITY</th>
<th>% OF GRADEABILITY AT STALL SPEED</th>
<th>TRACTIVE EFFORT AT STALL (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ST FORWARD</td>
<td>3.46</td>
<td>15.2</td>
<td>54</td>
<td>32,000</td>
</tr>
<tr>
<td>2ND FORWARD</td>
<td>4.77</td>
<td>6.4</td>
<td>27</td>
<td>18,300</td>
</tr>
<tr>
<td>3RD FORWARD</td>
<td>12.49</td>
<td>2.8</td>
<td>14.4</td>
<td>8,700</td>
</tr>
<tr>
<td>4TH FORWARD</td>
<td>21.45</td>
<td>1.45</td>
<td>5</td>
<td>4,500</td>
</tr>
</tbody>
</table>

**NOTE:** All performance data is based on standard machine and may vary plus or minus 10% due to variations in engine performance.

**AXLE WEIGHT DISTRIBUTION**

<table>
<thead>
<tr>
<th>STANDARD MACHINE WITH</th>
<th>TOTAL WEIGHT (LBS.)</th>
<th>FRONT</th>
<th>REAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>24'4&quot; DOOM</td>
<td>62,870</td>
<td>21,740</td>
<td>41,130</td>
</tr>
<tr>
<td>28'8&quot; DOOM</td>
<td>65,960</td>
<td>23,720</td>
<td>42,240</td>
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<tr>
<td>29'8&quot; DOOM</td>
<td>66,730</td>
<td>23,450</td>
<td>43,280</td>
</tr>
</tbody>
</table>

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**DENOTES OPTIONAL EQUIPMENT.**

Constant improvement and engineering progress make it necessary that we reserve the right to make specifications, equipment and price changes without notice.