Features

- 30 t (30 USt) capacity
- 8,8 m – 29 m (29 ft – 95 ft) four-section full-power boom
- 7,9 m – 13,7 m (26 ft – 45 ft) offsettable telescopic swingaway extension
- Intuitive, user friendly controls with electronic joysticks and operator customizable function speeds
- Full frame decking
- 122 kW (164 hp) Tier 4F Cummins diesel engine
GROVE RT530E-2

Grove design and engineering expertise have been developed through years of manufacturing an outstanding line of performance-proven, rough-terrain cranes. The RT530E-2 builds upon this tradition with exceptional mobility and fast set-up on any job-site.

Features

➤ Boom shape
The RT530E-2 incorporates a rectangular boom shape made from 100 ksi steel, which eliminates weight and maximizes structural capacities.

➤ Crane Control System (CCS)
The Crane Control System (CCS) offers a user friendly interface, two full graphic displays mounted vertically for easier viewing and a jog dial for easier navigation and data input. The system allows the electronic controllers to be reprogrammed by the operator for specific speed and reaction.

➤ Cab
The Full Vision cab with tilt-telescoping steering wheel, single or dual-axis controllers, hot water heat and air conditioning provide all day comfort for the operator.

➤ Tip height
Maximum tip height of 44,5 m (146 ft) with 13,7 m (45 ft) telescopic extension.

CraneSTAR

➤ CraneSTAR is an exclusive and innovative crane asset management system that helps improve your profitability and reduce costs by remotely monitoring critical crane data. Visit www.cranestar.com for more information.
Jobsite benefits

▷ **Exceptional maneuverability**
Maneuvering around the job site is easier with Grove rough-terrain cranes. Four-wheel drive combined with four modes of steering (front only, rear only, crab and coordinated) allows operators to get closer to the lift regardless of congested areas or adverse ground conditions. All modes are controlled through steering wheel and rocker switches, so there’s no need for operators to stop and align the wheels.

▷ **Jobsite flexibility means more lifts for greater profitability**
Grove rough-terrain cranes can be reconfigured to fit numerous lifting applications, giving you more lifting versatility. That provides you with the potential to win more jobs for greater profitability and return on investment.

▷ **Innovation drives enhanced operation and efficiency**
Grove utilizes the latest technology to provide the highest work efficiency and safety — all while meeting today’s strict environmental standards. Our innovations ensure reliable crane performance along with operator productivity and comfort.
Dimensions and weights

### Dimensions

<table>
<thead>
<tr>
<th>Tire size</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
<th>G (mm)</th>
<th>H (mm)</th>
<th>J (°)</th>
<th>K (°)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-wheel steer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.5 x 25</td>
<td>12,838</td>
<td>12,428</td>
<td>10,899</td>
<td>10,236</td>
<td>10,007</td>
<td>8,138</td>
<td>7,021</td>
<td>20,55</td>
<td>25.0</td>
<td>22.5</td>
<td>26,06</td>
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<tr>
<td>16.0 x 25</td>
<td>12,838</td>
<td>12,428</td>
<td>10,899</td>
<td>10,185</td>
<td>9,981</td>
<td>8,138</td>
<td>7,021</td>
<td>20,93</td>
<td>26.0</td>
<td>23.5</td>
<td>25,36</td>
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<td>Four-wheel steer</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.5 x 25</td>
<td>8,067</td>
<td>8,630</td>
<td>6,722</td>
<td>6,061</td>
<td>5,806</td>
<td>4,000</td>
<td>3,498</td>
<td>20,55</td>
<td>25.0</td>
<td>22.5</td>
<td>26,06</td>
</tr>
<tr>
<td>16.0 x 25</td>
<td>8,067</td>
<td>8,630</td>
<td>6,722</td>
<td>6,061</td>
<td>5,806</td>
<td>4,000</td>
<td>3,498</td>
<td>20,93</td>
<td>26.0</td>
<td>23.5</td>
<td>25,36</td>
</tr>
</tbody>
</table>

**Notes:**
1. All dimensions are for reference only.
2. Aux.

### Weights

<table>
<thead>
<tr>
<th></th>
<th>Gross</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Basic Machine: including 31 m (95 ft) main boom, main hoist with 137 m (450 ft) of rope, (full更何况erweight + IPO, 6.8 x (7.5 UST) headache ball, and 27 t (30 UST) hook block Tier 4F engine.</td>
<td>26,419</td>
<td>58,244</td>
<td>11,590</td>
</tr>
<tr>
<td>Add: Auxiliary hoist + 137 m (450 ft) of 35 x 7 hoist cable and auxiliary boom nose ILO IPO counterweight</td>
<td>26,646</td>
<td>58,744</td>
<td>11,654</td>
</tr>
<tr>
<td>Add: 7.9 m - 13.7 m (26 ft - 45 ft) telescopic boom extension + extension hangers</td>
<td>27,556</td>
<td>60,750</td>
<td>13,021</td>
</tr>
</tbody>
</table>
102 ft main boom + 26 ft – 45 ft extension

Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.
## Load chart

<table>
<thead>
<tr>
<th>Feet</th>
<th>Main boom length in feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>60,000 (60.5) 50,100 (66.5) 46,950 (74.5) 38,850* (76) — — — — — —</td>
</tr>
<tr>
<td>12</td>
<td>54,650 (56) 50,100 (61.5) 44,950 (66) 38,850* (72) 30,500* (76) — — — — — —</td>
</tr>
<tr>
<td>15</td>
<td>42,850 (47.5) 43,800 (60.5) 41,050 (66) 36,000 (72) 29,450* (76) 22,450* (76) — — — —</td>
</tr>
<tr>
<td>20</td>
<td>— — 30,700 (51) 31,650 (61.5) 32,100 (67) 29,500 (71.5) 22,450* (76) 18,550* (76) 15,500* (76)</td>
</tr>
<tr>
<td>25</td>
<td>— — — 29,050 (42.5) 24,800 (54.5) 23,100 (61.5) 19,250 (67) 15,300 (72.5)</td>
</tr>
<tr>
<td>30</td>
<td>— — — — 18,800 (29) 19,250 (47) 19,550 (56) 19,600 (61.5) 16,850 (66) 14,400 (69) 13,200 (70.5)</td>
</tr>
<tr>
<td>35</td>
<td>— — — — — 15,550 (38) 15,850 (49.5) 16,000 (61.5) 14,850 (66) 12,700 (69) 11,500 (70.5)</td>
</tr>
<tr>
<td>40</td>
<td>— — — — — — 12,950 (26) 12,500 (42.5) 11,000 (51.5) 13,050 (57.5) 11,000 (62) 10,000 (64)</td>
</tr>
<tr>
<td>45</td>
<td>— — — — — — — 10,450 (34.5) 10,500 (46.5) 10,550 (51) 9630 (58.5) 9060 (60.5)</td>
</tr>
<tr>
<td>50</td>
<td>— — — — — — — — 8610 (23.5) 8630 (39.5) 8670 (48) 8720 (54.5) 7990 (57)</td>
</tr>
<tr>
<td>55</td>
<td>— — — — — — — — — 7700 (32) 7200 (43) 7250 (50) 7100 (53)</td>
</tr>
<tr>
<td>60</td>
<td>— — — — — — — — — — 6000 (22) 6030 (37) 6100 (45.5) 6110 (49)</td>
</tr>
<tr>
<td>65</td>
<td>— — — — — — — — — — — 5060 (30) 5120 (40.5) 5150 (44.5)</td>
</tr>
<tr>
<td>70</td>
<td>— — — — — — — — — — — 4270 (20.5) 4330 (35) 4350 (40)</td>
</tr>
<tr>
<td>75</td>
<td>— — — — — — — — — — — — 3650 (20.5) 3700 (34.5)</td>
</tr>
<tr>
<td>80</td>
<td>— — — — — — — — — — — — — 3100 (20) 3100 (28)</td>
</tr>
<tr>
<td>85</td>
<td>— — — — — — — — — — — — — — 2600 (20)</td>
</tr>
</tbody>
</table>

**Minimum boom angle (°) for indicated length (no load):**

- **0°**

**Maximum boom length (ft.) at 0° boom angle (no load):**

- **95**

*This capacity is based on maximum boom angle

**NOTE:** (°) Boom angles are in degrees.

---

### Boom angle

<table>
<thead>
<tr>
<th>Lifting capacities at 0° boom angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>29 ft</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>0°</td>
</tr>
</tbody>
</table>

**NOTE:** (°) Reference radii in feet.

Figures above the bold line indicate optimal lift capacity within boom length sections.

---

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
### Load Chart

<table>
<thead>
<tr>
<th>Feet</th>
<th>26 ft length</th>
<th>45 ft length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0° offset</td>
<td>30° offset</td>
</tr>
<tr>
<td>30</td>
<td>8200 (70)</td>
<td>—</td>
</tr>
<tr>
<td>35</td>
<td>8200 (73.5)</td>
<td>—</td>
</tr>
<tr>
<td>40</td>
<td>8200 (70)</td>
<td>5780 (76)</td>
</tr>
<tr>
<td>45</td>
<td>8320 (68.5)</td>
<td>5780 (73.5)</td>
</tr>
<tr>
<td>50</td>
<td>7380 (66)</td>
<td>5360 (71)</td>
</tr>
<tr>
<td>55</td>
<td>6370 (63)</td>
<td>4750 (68.5)</td>
</tr>
<tr>
<td>60</td>
<td>5670 (60.5)</td>
<td>4290 (65)</td>
</tr>
<tr>
<td>65</td>
<td>4820 (57.5)</td>
<td>3870 (62)</td>
</tr>
<tr>
<td>70</td>
<td>4200 (54.5)</td>
<td>3530 (59)</td>
</tr>
<tr>
<td>75</td>
<td>3680 (51.5)</td>
<td>3230 (56)</td>
</tr>
<tr>
<td>80</td>
<td>3080 (48.5)</td>
<td>3000 (52.3)</td>
</tr>
<tr>
<td>85</td>
<td>2520 (45)</td>
<td>2790 (49)</td>
</tr>
<tr>
<td>90</td>
<td>2050 (41)</td>
<td>2410 (45)</td>
</tr>
<tr>
<td>95</td>
<td>1670 (37)</td>
<td>1970 (40.5)</td>
</tr>
<tr>
<td>100</td>
<td>1370 (32.5)</td>
<td>1580 (35.5)</td>
</tr>
<tr>
<td>105</td>
<td>1020 (27.5)</td>
<td>—</td>
</tr>
<tr>
<td>110</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>115</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>120</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

**Min. boom angle for indicated length (no load):**
- 24° for 26 ft
- 30° for 45 ft

**Max. boom length at 0° boom angle (no load):**
- 80 ft

---

**Boom extension capacity notes:**

1. All capacities above the bold line are based on structural strength of boom extension.
2. 26 ft and 45 ft boom extension lengths may be used for single line lifting service.
3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

**Warning:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
5. Capacities listed are with outriggers fully extended and vertical jacks set only.

---

**THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.**

The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
Load chart

29 ft – 95 ft 8416 lb

Feet | Main boom length in feet
--- | ---
29 | 60,000 (60.5)
30 | 48,000 (69.5)
35 | 45,000 (69.5)
40 | —
45 | —
50 | —
55 | —
60 | —
65 | —
70 | —
75 | —
80 | —

NOTE: Boom angles are in degrees.
*This capacity is based on maximum obtainable boom angle.

Min. boom angle for indicated length (no load) 15° 20°
Max. boom length at 0° boom angle (no load) 80

Boom angle | Lifting capacities at 0° boom angle on outriggers at 50% extended 360°
--- | ---
29 | 8180 (22.8)
40 | 9000 (33.8)
50 | 5400 (43.8)
60 | 3480 (53.8)
70 | 2100 (63.8)
80 | 1130 (73.8)

NOTE: ( ) Reference radii in feet.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

A6-829-100270A
### Load chart

**Notes to all rubber capacity charts:**

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with 20.5 x 25 (24 ply) tires at 75 psi cold inflation pressure, and 16.00 x 25 (28 ply) tires at 100 psi cold inflation pressure.
3. Defined Arc - Over front includes 6° on either side of longitudinal centerline of machine (ref. drawing C6-829-003529).
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. Capacities are applicable only with machine on firm level surface.
6. On rubber lifting with boom extensions not permitted.
7. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds. Axle lockouts must be functioning when lifting on rubber.
8. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.
9. Creep – Not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.

#### Capacities

**Pounds**

<table>
<thead>
<tr>
<th>Feet</th>
<th>29</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>25,550 (60.5)</td>
<td>25,550 (70)</td>
<td>16,450 (76)</td>
<td>—</td>
</tr>
<tr>
<td>12</td>
<td>20,600 (66.5)</td>
<td>20,600 (66.5)</td>
<td>16,450 (72)</td>
<td>—</td>
</tr>
<tr>
<td>15</td>
<td>14,350 (47.5)</td>
<td>14,350 (62)</td>
<td>14,350 (68)</td>
<td>75.5</td>
</tr>
<tr>
<td>20</td>
<td>8,280 (30)</td>
<td>8,280 (53)</td>
<td>8,280 (61.5)</td>
<td>67</td>
</tr>
<tr>
<td>25</td>
<td>—</td>
<td>5,330 (42.5)</td>
<td>5,330 (54.5)</td>
<td>61.5</td>
</tr>
<tr>
<td>30</td>
<td>—</td>
<td>3,630 (29)</td>
<td>3,630 (47)</td>
<td>56</td>
</tr>
<tr>
<td>35</td>
<td>—</td>
<td>—</td>
<td>2,500 (38)</td>
<td>49.5</td>
</tr>
<tr>
<td>40</td>
<td>—</td>
<td>—</td>
<td>1,600 (26)</td>
<td>42.5</td>
</tr>
<tr>
<td>45</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>34.5</td>
</tr>
</tbody>
</table>

**Min. boom angle for indicated length (no load)**

| 34° |

**Max. boom length at 0° boom angle (no load)**

| 50 ft |

**Notes:**

- Boom angles are in degrees.
- Reference radii in feet.
- Boom angles are in degrees.

---

<table>
<thead>
<tr>
<th>Feet</th>
<th>29</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>25,900 (60.5)</td>
<td>25,900 (70)</td>
<td>18,250 (74.5)</td>
<td>—</td>
</tr>
<tr>
<td>12</td>
<td>22,350 (56)</td>
<td>22,350 (66.5)</td>
<td>18,250 (72)</td>
<td>—</td>
</tr>
<tr>
<td>15</td>
<td>18,250 (47.5)</td>
<td>18,250 (62)</td>
<td>18,250 (68)</td>
<td>75.5</td>
</tr>
<tr>
<td>20</td>
<td>13,350 (30)</td>
<td>13,350 (53)</td>
<td>13,350 (61.5)</td>
<td>67</td>
</tr>
<tr>
<td>25</td>
<td>10,350 (42.5)</td>
<td>10,350 (54.5)</td>
<td>10,350 (61.5)</td>
<td>56</td>
</tr>
<tr>
<td>30</td>
<td>8,060 (29)</td>
<td>8,060 (47)</td>
<td>8,060 (61.5)</td>
<td>49.5</td>
</tr>
<tr>
<td>35</td>
<td>—</td>
<td>—</td>
<td>5,900 (38)</td>
<td>42.5</td>
</tr>
<tr>
<td>40</td>
<td>—</td>
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<td>3,770 (26)</td>
<td>34</td>
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<td>45</td>
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<td>—</td>
<td>—</td>
<td>29.5</td>
</tr>
<tr>
<td>50</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>22.4</td>
</tr>
</tbody>
</table>

**Max. boom length at 0° boom angle (no load)**

| 60 ft |

---

**Pounds**

<table>
<thead>
<tr>
<th>Feet</th>
<th>29</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>11,400 (22.8)</td>
<td>5,090 (33.8)</td>
<td>3,110 (43.8)</td>
<td>1,800 (53.8)</td>
</tr>
</tbody>
</table>

**Note:** Boom angles are in degrees.

---

**Load chart**

**Boom angle**

**Lifting capacity at zero degree on rubber - 360°**

<table>
<thead>
<tr>
<th>Feet</th>
<th>29</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>6,110 (22.8)</td>
<td>2,730 (33.8)</td>
<td>1,210 (43.8)</td>
<td></td>
</tr>
</tbody>
</table>

**Pounds**

---

**Boom angle**

**Lifting capacity at zero degree on rubber - pick and carry - boom centered over front**

<table>
<thead>
<tr>
<th>Feet</th>
<th>29</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>11,400 (22.8)</td>
<td>5,090 (33.8)</td>
<td>3,110 (43.8)</td>
<td>1,800 (53.8)</td>
</tr>
</tbody>
</table>
Load handling

### Weight reductions for load handling devices

<table>
<thead>
<tr>
<th>Device Description</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 ft offsettable boom extension</td>
<td>2960</td>
</tr>
<tr>
<td>Erected*</td>
<td></td>
</tr>
<tr>
<td>26 ft - 45 ft telescopic boom extension</td>
<td>4220</td>
</tr>
<tr>
<td>Erected (retracted)*</td>
<td></td>
</tr>
<tr>
<td>Erected (extended)*</td>
<td>5780</td>
</tr>
<tr>
<td>Reduction of main boom capacities*</td>
<td></td>
</tr>
<tr>
<td>Auxiliary boom nose</td>
<td>142</td>
</tr>
<tr>
<td>Hook blocks and headache balls</td>
<td></td>
</tr>
<tr>
<td>30 USt, 3-sheave</td>
<td>580 +</td>
</tr>
<tr>
<td>15 USt, 2-sheave</td>
<td>425 +</td>
</tr>
<tr>
<td>7.5 USt overhaul ball</td>
<td>354 +</td>
</tr>
<tr>
<td>7.5 USt headache ball</td>
<td>338 +</td>
</tr>
</tbody>
</table>

* Refer to rating plate for actual weight

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

**NOTE:** All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

### Line pulls and reeving information

<table>
<thead>
<tr>
<th>Hoists</th>
<th>Cable specs</th>
<th>Permissible line pulls</th>
<th>Nominal cable length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main</td>
<td>16 mm (5/8 in) 6 x 3 7 class EIPS, IWRC Special Flexible Min. Breaking Str. 41,200 lb</td>
<td>11,640 lb*</td>
<td>450 ft</td>
</tr>
<tr>
<td>Main and auxiliary</td>
<td>16 mm (5/8 in) 35 x 7 Class, EEIPS+Rotation Resistant (non-rotating) Min. Breaking Str. 61,200 lb</td>
<td>11,640 lb*</td>
<td>450 ft</td>
</tr>
<tr>
<td>Main and auxiliary</td>
<td>18 mm (11/16 in) K™100 Synthetic hoist rope (ISO) Min. breaking strength 63,700 lb</td>
<td>12,740 lb*</td>
<td>463 ft</td>
</tr>
</tbody>
</table>

The approximate weight of 5/8 in wire rope is 1.0 lb/ft. The approximate weight of 18 mm synthetic rope is 0.16 lb/ft. *With certain boom and hoist tackle combinations, the allowable line pull may be limited by hoist performance. Refer to Hoist Performance table for lift planning to ensure adequate hoist performance on drum rope layer required.

### Capacity reductions for synthetic rope use:

<table>
<thead>
<tr>
<th>Usage</th>
<th>Main boom charts</th>
<th>Extension charts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outriggers fully extended</td>
<td>100 lb</td>
<td>0 lb</td>
</tr>
<tr>
<td>Outriggers 50% extended</td>
<td>480 lb</td>
<td>120 lb</td>
</tr>
<tr>
<td>Outriggers 0% extended</td>
<td>470 lb</td>
<td>N/A</td>
</tr>
<tr>
<td>On Rubber</td>
<td>210 lb</td>
<td>N/A</td>
</tr>
</tbody>
</table>

If synthetic rope is installed on either the main or aux hoist, and wire rope is installed on the other hoist, no capacity reductions are required.

### Hoist performance

<table>
<thead>
<tr>
<th>Wire rope layer</th>
<th>Hoist line pulls two-speed hoist</th>
<th>Drum rope capacity (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low available lb*</td>
<td>Layer</td>
<td>Total</td>
</tr>
<tr>
<td>1</td>
<td>11,640</td>
<td>77</td>
</tr>
<tr>
<td>2</td>
<td>10,480</td>
<td>85</td>
</tr>
<tr>
<td>3</td>
<td>9530</td>
<td>94</td>
</tr>
<tr>
<td>4</td>
<td>8730</td>
<td>102</td>
</tr>
<tr>
<td>5</td>
<td>8060</td>
<td>111</td>
</tr>
<tr>
<td>6</td>
<td>7490</td>
<td>119</td>
</tr>
</tbody>
</table>

* Max lifting capacity: 6 x 37 class = 11,640 lb 35 x 7 class = 11,640 lb

### Working area diagram

Bold lines determine the limiting position of any load for operation within working areas indicated.

For specific configurations refer to www.cranetools.com.

**THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.**

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
Specifications

**Hydraulic system**
Two main pumps ([1] piston and [1] gear) with a combined capacity of 316.5 L/min (83.6 gpm).
Maximum operating pressure: 275.7 bar (4000 psi).
Three section pressure compensated valve bank. Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 396 L (104.6 gal) hydraulic reservoir. System pressure test ports.

**Hoist specifications (HP15C-17G) main and auxiliary hoist**
Planetary reduction with automatic spring applied multi-disk wet brake. Electronic hoist drum rotation indicators, and hoist drum cable followers.
Hoist maximum single line pull:
- 1st layer: 5280 kg (11,640 lb)
- 3rd layer: 4323 kg (9530 lb)
- 5th layer: 3656 kg (8060 lb)
Maximum permissible line pull:
- 5280 kg (11,640 lb) with 35 x 7 class rope
Maximum single line speed: 136 m/min (445 fpm)
Rope construction:
- 35 x 7 Rotation Resistant
Rope diameter: 16 mm (5/8 in)
Rope length:
- Main hoist: 137 m (450 ft)
- Auxiliary hoist: 137 m (450 ft)
Maximum rope stowage: 181 m (596 ft)

**Boat nose**
Three nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boat nose.

**Boat elevation**
One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to +76°.

**Crane Control System (CCS)**
"Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. This system provides electronic display of boat angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding jobsite obstructions.

**Cab**
Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Adjustable deluxe seat incorporates armrest-mounted electronic single or dual axis controllers and a jog dial for easier data input. Tilt/telescoping steering wheel with various controls incorporated into the steering column. Other standard features include hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher, seat belt, air conditioning and dual cab mounted work light.

**Swing**

**Counterweight**
3817 kg (8416 lb) pinned to superstructure.

**Superstructure**

**Boom**
8.8 m – 29.0 m (29 ft – 95 ft) four-section, synchronized full-power boom. Maximum tip height: 31.2 m (102.5 ft).

Optional telescopic swingaway extension*
7.9 m – 13.7 m (26 ft – 45 ft) offsettable telescopic lattice swingaway extension. Offsets at 0° and 30°. Stows alongside base boom section.
Maximum tip height: 44.5 m (146 ft).

**Boom nose**
Three nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose.

**Boom elevation**
One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to +76°.

**Crane Control System (CCS)**
"Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. This system provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding jobsite obstructions.

**Cab**
Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Adjustable deluxe seat incorporates armrest-mounted electronic single or dual axis controllers and a jog dial for easier data input. Tilt/telescoping steering wheel with various controls incorporated into the steering column. Other standard features include hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher, seat belt, air conditioning and dual cab mounted work light.

**Swing**

**Counterweight**
3817 kg (8416 lb) pinned to superstructure.

**Carrier**

**Chassis**
Box section frame fabricated from high-strength, low alloy steel. Front/rear towing, lifting, and tie down lugs.

**Outrigger system**
Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting, 0%, 50% and fully extended. All steel fabricated quick release type outrigger floats, 362 mm (14.25 in) square.
Maximum outrigger pad load: 24 857 kg (54,800 lb)
Outrigger monitoring system with outrigger beam position display on R.C.L. screen (required in North America, Canada, and European Union countries).

**Outrigger controls**
Controls and crane level indicator located in cab. Extension and retraction are through the CCS system.
Specifications

**Carrier (cont'd)**

**Engine (Tier 4F)**
Cummins QSB 6.7L diesel six cylinder, turbo-charged with Cummins Compact Catalyst (CCC) & selective catalytic reduction (SCR) combo muffler, using diesel exhaust fluid (DEF) injection. Meets emission per U.S. Tier 4F and E.U. Stage IV, 122 kW (164 bhp) at 2300 rpm. Maximum torque: 732 Nm (540 ft lb) at 1500 rpm. Fuel requirement: Maximum of 15 ppm sulfur content (ultra-low sulfur diesel fuel) and diesel exhaust fluid (DEF). Note: Tier 4F engine required in North American, Canada and European Union countries.

**Engine (Tier 3)**
Cummins QSB 6.7 L diesel, six cylinders, 119 kW (160 bhp) (gross) at 2500 rpm. Maximum torque: 731 Nm (539 ft-lb) at 1500 rpm.

**Fuel tank capacity**
220 L (58 gal)

**Transmission**
Range-shift six-speed (three speeds x two range, both forward and reverse)

**Electrical system**
Two (2) 12 V maintenance free batteries. 24 V starting and lighting. Battery disconnect. Full CANBUS diagnostic system.

**Drive**
4 x 4

**Steering**
Fully independent power steering.
Front: Full hydraulic steering wheel controlled.
Rear: Full hydraulic switch controlled.
Provides infinite variations with four main steering modes: front only, rear only, crab and coordinated.
Rear steer indicator.
Outside turning radius: 5.8 m (19.1 ft)
Inside turning radius: 4 m (13.1 ft)

**Axles**
Front: Drive/steer with differential and planetary reduction hubs rigid mounted to frame.
Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.

**Oscillation lockouts**
Automatic full hydraulic lockouts on rear axle permits 18.8 cm (7 in) oscillation with boom centered over the front only.

**Brakes**
Full hydraulic split circuit disc-type brakes operating on all wheels. Spring-applied, hydraulically released parking brake mounted on front axle.

**Tires**
Standard: 20.5 x 25 - 24 bias ply
*Option: 16.0 x 25 - 28 bias ply

**Lights**
Full lighting including turn indicators, head, tail, brake and hazard warning lights.

**Maximum speed**
40 km/h (25 mph) at 2500 rpm

**Gradeability (theoretical)**
119% (at engine stall) (Based on 27,556 kg [60,750 lb] GVW)
20.5 x 25 tires, 29 m (95 ft) main boom, plus 13.7 m (45 ft) telescopic swingaway, 3817 kg (8416 lb) counterweight, 27 t (30 USt) hook block and 6.8 t (7.5 USt) headache ball.

Miscellaneous standard equipment
Full width steel fenders, full length steel decking with anti-skid, dual rear view mirrors, hook block tie-down, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, rear wheel position indicator, hot water cab heater, air conditioning, hoist mirrors, engine distress A/V warning system, front/rear tie-down and tow lugs, coolant sight level indicator, CraneSTAR asset management system.

*Optional equipment

- Value package: Includes 7.92 m – 13.7 m (26 ft – 45 ft) telescoping swingaway and 360° positive swing lock
- Auxiliary Hoist Package: Includes model HP15C-17G auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 137 m (450 ft) of 16 mm (5/8 in) 35 x 7 class wire rope and auxiliary sheave boom nose.
- 360° positive mechanical swing lock
- Rear pintle hook
- Cab-controlled cross axle differential locks (front and rear)
- PAT event recorder download kit
- Single axis electric controllers
- Third wrap indicator with hoist cut-out for main hoist or main and auxiliary hoist
- Vertical LMI light Tower (externally mounted)
- Synthetic rope for main and/or auxiliary hoist
- Emergency stop buttons on each side of carrier
- Second beacon light
- -29ºC / -20ºF cold weather package
- -40ºC / -40ºF arctic weather package

*Denotes optional equipment
Symbol glossary

- Axles
- Crane control system
- Heavy duty jib
- Outriggers
- Boom
- Drive
- Height (no max)
- Radius
- Boom elevation
- Electrical system
- Hoist
- Rotation
- Boom extension
- Engine
- Hook block
- Speed
- Boom length
- Extension
- Hydraulic system
- Steering
- Boom nose
- Frame
- Insert
- Suspension
- Brakes
- Fuel tank capacity
- Lights
- Swing
- Cab
- Gear
- Oil
- Tires
- Counterweight
- Grade
- Outrigger controls
- Transmission
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