RT600 SERIES
rough terrain crane
specification

STANDARD BOOM EQUIPMENT

BOOM
35-111 ft (10.67-33.53 m), four section full power boom. Telescoping is mechanically synchronized with single lever control. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third section and the tip section. The boom is a high-strength four plate design, welded inside and out with anti-friction slide pads. Boom side plates are made with stamped impressions to reduce weight and increase strength. A single boom hoist cylinder provides for boom elevation of -4 to 76 degrees. Maximum tip height 115 ft (35.05 m).

BOOM HEAD
Welded to fourth section of boom. Five or six nylon load sheaves and two idler sheaves mounted on heavy duty, anti-friction bearings. Quick reeving boom head. Provisions made for side-stow jib mounting.

OPTIONAL BOOM EQUIPMENT

JIBS
32 ft (9.68 m) side stow swing-on one-piece lattice type jib. Single nylon sheave mounted on anti-friction bearing. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 146 ft (44.50 m).

33-57 ft (10.15-17.30 m) side stow swing-on lattice type Jib. Single nylon sheave mounted on anti-friction bearing. Jib is extendible to 57 ft (17.30 m) by means of a 25 ft (7.62 m) manual pull-out tip section, roller supported for ease of extension. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 170 ft (51.82 m).

AUXILIARY BOOM HEAD
Removable auxiliary boom head has single nylon sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only. Removal is not required for jib use.

HOOK BLOCK
Five metallic sheaves on anti-friction bearings with hook and hook latch. Quick reeving design does not require removal of wedge and socket from rope.

HOOK & BALL
12 ton (10.9 m) top swivel ball with hook and hook latch.
STANDARD UPPERSTRUCTURE EQUIPMENT

UPPERSTRUCTURE FRAME
All welded one-piece structure fabricated with high tensile strength alloy steel. Counterweight is bolted to frame.

TURNABLE CONNECTION
Swing bearing is a single row, ball type, with internal teeth. The swing bearing is bolted to the revolving upperstructure and to the carrier frame.

SWING
A hydraulic motor drives a double planetary reduction gear for precise and smooth swing function. Swing speed (no load) is 1.9 rpm.

SWING BRAKE
Heavy duty multiple disc swing brake is mechanically actuated from operator's cab by foot pedal. Brake may be locked on or used as a momentary brake. A 360° house mechanical house lock is standard.

RATED CAPACITY INDICATOR
Rated Capacity Indicator with visual and audible warning system and automatic function disconnects. Second generation pictographic display includes: boom radius, boom angle, boom length, allowable load, actual load, and percentage of allowable load registered by bar graph. Operator settable alarms provided for swing angle, boom length, boom angle, tip height, and work area exclusion zone. Anti-two block system includes: boom radius, boom angle, boom length, allowable load, actual load, and percentage of allowable load registered by bar graph. Operator settable alarms provided for swing angle, boom length, boom angle, tip height, and work area exclusion zone. Anti-two block system includes audio/visual warning and automatic function disconnects.

OPERATOR'S CAB
Environmental cab with all steel construction, optimum visibility, tinted safety glass throughout, and rubber floor matting mounted on vibration absorbing pads. The cab has a sliding door on the left side, framed sliding window on the right side, hinged tinted all glass skylight and removable front windshield to provide optimum visibility of the load open or closed. Acoustical foam padding insulates against sound and weather. The deluxe six-way adjustable seat is equipped with a mechanical suspension and includes head and arm rests.

CONTROLS
Armrest mounted dual axis controls for winch(s), swing, and boom elevation. Winch rotation indication incorporated into control handles. Armrest swings up to improve access and egress. Vernier adjustable hand throttle included. Steering column mounted turn signal, wiper, and shift controls. Switches include ignition, engine stop, lights, horn, roof window wiper, defroster, steering mode, parking brake, outriggers, 360° house lock, etc. Horn and winch speed shift switches are mounted in the levers. Foot control pedals include swing brake, boom telescope, service brake, and accelerator.

INSTRUMENTATION AND ACCESSORIES
In-cab gauges include air pressure, bubble level, engine oil pressure, fuel, engine temperature, voltmeter, transmission temperature, and transmission oil pressure. Indicators include low air, high water temperature, low oil pressure, high transmission temperature, and low coolant level. Switches include: ignition, engine stop, lights, horn, roof window wiper, defroster, steering mode, parking brake, outriggers, 360° house lock, etc. Horn and winch speed shift switches are mounted in the levers. Foot control pedals include swing brake, boom telescope, service brake, and accelerator.

HYDRAULIC CONTROL VALVES
Valves are mounted on the rear of the upperstructure and are easily accessible. Valves have electric/hydraulic operators and include one pressure compensated two spool valve for boom elevation and telescope. One pressure compensated two spool valve for main and auxiliary winch, and one single spool valve for swing. Quick disconnects are provided for ease of installation of pressure check gauges.

OPTIONAL EQUIPMENT
Auxiliary Winch CSingle axis armrest mounted controllers CLP
Heater/Defroster CHydraulically powered Air Conditioner with or without hydraulic heater C Diesel Heater/Defroster C Work Lights C Rotating Beacon

STANDARD CARRIER EQUIPMENT

CARRIER CHASSIS
Chassis is Terex designed with four-wheel drive and four-wheel steer (4X4X4). Has box-type construction with reinforcing cross members, a precision machined turn table mounting plate and integrally welded outrigger boxes. Decking has anti-skid surfaces, including between the frame rails lockable front tool storage compartment, and access steps and handles on the left and right sides and on all four corners.

AXLES AND SUSPENSION
Rear axle is a planetary drive/steer type with 10.5 in (0.26m) of total oscillation. Automatic oscillation lockouts that engage when the superstructure is swung 10° in either direction. Front axle is a planetary drive/steer type, rigid mounted to the frame for increased stability.

STEERING
Hydraulic four-wheel full power steering for two-wheel, four-wheel coordinated, or four-wheel crab steer is easily controlled by steering wheel. A rear axle centering light is provided.

TRANSMISSION
Range shift type power-shift power-shift transmission with integral torque converter provides 6 speeds forward and 6 speeds reverse with neutral safety start. Four wheel drive engages automatically with low range and two wheel drive with high range. Automatic pulsating back-up alarm.

Turning radius (to C of outside tire) C Radius
Two-wheel: 41' 7" (12.7 m) 43' 2" (13.2 m)
Four-wheel: 22' 10" (7.0 m) 24' 7" (7.5 m)

C Clearance C

Horn and winch

Horn and winch

Horn and winch
STANDARD CARRIER EQUIPMENT (continued)

MULTI-POSITION OUT & DOWN OUTRIGGERS
Fully independent hydraulic outriggers may be utilized fully extended to 24 ft. (7.32 m) centerline to centerline, in their ½ extended position, or fully retracted for maximum flexibility. Easily removable Almag floats, each with an area of 254 in² (1639 cm²), stow on the outrigger boxes at their point of use. Complete controls and a sight leveling bubble are located in the operator’s cab.

WHEELS & TIRES
Disc type wheels with full tapered bead seat rim, 157.56 in (4.0 m) wheelbase.

TIRES
Wide earthmover (E3) style tread tires provide life and flotation. 29.50x25, 28 P.R.-std.

HYDRAULIC SYSTEM

HYDRAULIC PUMPS
Three gear type pumps, one single and two in tandem, driven off the transmission. Combined system capability is 113 gpm (428 lpm). Includes pump disconnect on winch pump.

Main and Auxiliary Winch Pump
52.7 gpm (199.5 lpm) @ 4,500 psi (316.4 kg/cm²)
Boom Hoist, Telescope Pump
37.3 gpm (141.2 lpm) @ 3,500 psi (246.1 kg/cm²)
Power Steering, Outrigger and Swing Pump
18.7 gpm (70.8 lpm) @ 3,500 psi (246.1 kg/cm²)

HYDRAULIC RESERVOIR
All steel, welded construction with internal baffles and diffuser. Provides easy access to filters and is equipped with an external sight level gauge.

FILTRATION
Full flow oil filtration system with bypass protection includes a removable 60 mesh (250 micron) suction screen-type filter and 5 micron replaceable return line filter.

PARKING BRAKE
Front axle equipped with spring-set, air released parking brake.

OPTIONAL EQUIPMENT

IMMERSION HEATER
C-6 7.5 kW

OPTIONAL HOIST LINE
MAIN WINCH AND OPTIONAL AUXILIARY
WINCH "¾" (19mm) rotation resistant compacted strand 34x7 Grade 1960. Min breaking strength 34.5 tons (31.7 mt).

ENGINE SPECIFICATIONS

Make and Model
CUMMINS QS8-215

Type
6 cylinder
Bore and Stroke
4.02 x 4.72 in (102x120 mm)
Displacement
359 cu (5.9 l)
Rated HP
215 hp (160 kw) @ 2500 rpm
Maximum Gross HP
225 hp (168 kw) @ 2300 rpm
Maximum Gross Torque
655 lbft (888 Nm) @ 1500 rpm
Aspiration
Turbocharged and charge air cooled
Air Filter
Dry element
Electrical System
12 volt
Alternator
102 amp
Battery
(2) 12V-1900 CCA
Fuel Capacity
50 gal (189 l)

PERFORMANCE (Standard Engine)

<table>
<thead>
<tr>
<th>Gear</th>
<th>Drive</th>
<th>Speed</th>
<th>Torque</th>
<th>Gradeability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 4-wheel</td>
<td>1.9 mph (3.1 kph)</td>
<td>86,330 lbs (39 159 kg)</td>
<td>127.6%</td>
<td></td>
</tr>
<tr>
<td>2 4-wheel</td>
<td>3.8 mph (6.1 kph)</td>
<td>41,845 lbs (18 845 kg)</td>
<td>48.5%</td>
<td></td>
</tr>
<tr>
<td>3 4-wheel</td>
<td>9.6 mph (15.4 kph)</td>
<td>15,220 lbs (6 904 kg)</td>
<td>34.7%</td>
<td></td>
</tr>
<tr>
<td>4 2-wheel</td>
<td>5.2 mph (8.4 kph)</td>
<td>29,685 lbs (13 465 kg)</td>
<td>18.0%</td>
<td></td>
</tr>
<tr>
<td>5 2-wheel</td>
<td>10.3 mph (16.6 kph)</td>
<td>14,260 lbs (6 468 kg)</td>
<td>12.0%</td>
<td></td>
</tr>
<tr>
<td>6 2-wheel</td>
<td>23.4 mph (37.7 kph)</td>
<td>5,211 lbs (2 364 kg)</td>
<td>5.9%</td>
<td></td>
</tr>
</tbody>
</table>

All performance data is based on a gross vehicle weight of 92,000 lbs (41 730 kg), 29.5x25 tires, 4x4 drive. Performance may vary due to engine performance. Gradeability data is theoretical and is limited by tire slip, machine stability, or oil pan design.
WEIGHTS & AXLE LOADS

<table>
<thead>
<tr>
<th>Basic Crane with 14,200 lbs (6400 kg), Counter weight</th>
<th>85,694</th>
<th>45,236</th>
<th>40,456</th>
<th>35,870</th>
<th>20,520</th>
<th>18,350</th>
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<tbody>
<tr>
<td>Add Options:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32' (9.68 m) Swing-on Jib (Stowed)</td>
<td>+ 1,270</td>
<td>+ 2,205</td>
<td>- 935</td>
<td>+ 576</td>
<td>+ 1,000</td>
<td>- 424</td>
</tr>
<tr>
<td>33' 57 (10.15 - 17.30 m) Swing-on Jib (Stowed)</td>
<td>+ 2,170</td>
<td>+ 3,580</td>
<td>- 1,410</td>
<td>+ 984</td>
<td>+ 1,624</td>
<td>- 640</td>
</tr>
<tr>
<td>Auxiliary Boom Head</td>
<td>+ 125</td>
<td>+ 365</td>
<td>- 240</td>
<td>+ 5/1</td>
<td>+ 166</td>
<td>- 109</td>
</tr>
<tr>
<td>Auxiliary Winch with Wire Rope Controls, Etc.</td>
<td>+ 584</td>
<td>- 30</td>
<td>+ 614</td>
<td>+ 265</td>
<td>- 14</td>
<td>+ 279</td>
</tr>
<tr>
<td>75T (68.0 mt) 5-Sheave Hook Block</td>
<td>+ 1,040</td>
<td>+ 1,971</td>
<td>- 931</td>
<td>+ 472</td>
<td>+ 894</td>
<td>- 422</td>
</tr>
<tr>
<td>60T (54.4 mt) 5-Sheave Hook Block</td>
<td>+ 1,204</td>
<td>+ 2,233</td>
<td>- 1,029</td>
<td>+ 546</td>
<td>+ 1,013</td>
<td>- 467</td>
</tr>
<tr>
<td>20T (18.1 mt) 1-Sheave Hook Block</td>
<td>+ 370</td>
<td>+ 936</td>
<td>- 366</td>
<td>+ 259</td>
<td>+ 423</td>
<td>- 166</td>
</tr>
<tr>
<td>12T (19.9 mt) Hook and Ball (in tool box)</td>
<td>+ 419</td>
<td>+ 443</td>
<td>- 24</td>
<td>+ 190</td>
<td>+ 201</td>
<td>- 11</td>
</tr>
<tr>
<td>Pinthead Hook:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>+ 45</td>
<td>+ 69</td>
<td>- 15</td>
<td>+ 20</td>
<td>+ 27</td>
<td>- 7</td>
</tr>
<tr>
<td>Rear</td>
<td>+ 45</td>
<td>- 25</td>
<td>+ 70</td>
<td>- 20</td>
<td>- 11</td>
<td>+ 31</td>
</tr>
<tr>
<td>Substitute:</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>600' of 34x7 class spin resistant wire rope</td>
<td>+ 98</td>
<td>- 17</td>
<td>+ 115</td>
<td>+ 41</td>
<td>- 8</td>
<td>+ 52</td>
</tr>
</tbody>
</table>

NOTE: Weights are for Terex supplied equipment and are subject to 2% variation due to manufacturing tolerances.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.