Specifications
Hydraulic Rough Terrain Crane

RTC-8064 64-ton (58 metric ton)

General dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>feet</th>
<th>meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turning radius (4-wheel steer - centerline of tires)</td>
<td>23.83</td>
<td>7.26</td>
</tr>
<tr>
<td>Tailswing of counterweight</td>
<td>13.77</td>
<td>4.20</td>
</tr>
</tbody>
</table>

GENERAL INFORMATION ONLY

Litho in U.S.A 5/96
**Upperstructure**

- **Boom**
  - Patented Design. Boom side plates have diamond shaped impressions for superior strength to weight ratio and 100,000 p.s.i. (689.5 MPa) steel angle chords for lateral stiffness. Boom telescope sections are supported by top, bottom and adjustable side wear shoes to prevent metal to metal contact.
  - Microguard 414, Rated Capacity Limiter "RCL"- Standard; Audio-visual warning system built into corner post with anti-two-block and function limiters. Operating data available includes boom length, boom angle, head height, radius of load, machine configuration, allowed load, actual load and percent of allowed load. Presettable alarms for maximum and minimum boom angles, max. tip height, max. boom length, swing left/right positions.
  - Optional; Load rating bar graph for quick operator reference.
  - **Boom** - 38’ 0" - 115’ 0" (11.58 - 35.05 m) four-section, full power boom.
  - Two Mode Boom extension - The basic mode is the full power, synchronized mode of telescoping all sections proportionately to 115’ 0" (35.05 m).
  - The exclusive A-max mode (or mode 'A') extends only the inner mid section to 63’ 6” (19.39 m) offering increased capacities for in-close, maximum capacity picks.
  - **Boom head** - Five 16-1/2" (0.42 m) root diameter nylon sheaves. Easily removable wire rope guards; rope dead end lugs provided on each side of boom head.
  - **Auxiliary lifting sheave** - Optional; Single 16-1/2" (0.42 m) root diameter nylon sheave with removable wire rope guard, mounted to boom. For use with one or two parts of line off the optional front winch. Does not affect erection of fly or use of main head sheaves for main reeving.
  - **Boom elevation** - One Link-Belt designed hydraulic cylinder with holding valves and bushings in each end. Hand control for controlling boom elevation from -3° to +78°.

- **Fly**
  - Optional - 36’ 6" (11.13 m) offsettable stowable one-piece lattice type without additional lugs. Can be offset 1°, 15°, or 30°.
  - Optional - 36’ 6" (11.13 m) offsettable stowable one-piece lattice type with lugs to allow for addition of second section. Can be offset 1°, 15°, or 30°.

- **Cab and Controls**
  - Environmental ULTRA-CAB™ of LFC-2000 construction process featuring laminated fiberglass composite material; isolated from sound with acoustical fabric insulation, all tinted/tempered safety glass windows. Sliding rear and right side windows and swing-up roof window for maximum visibility and ventilation. Slide-by-door opens to 36” (0.91 m) width. 6-way adjustable seat for maximum operator comfort. Hydraulic control levers (joystick type) for swing, winches and boom hoist. Outrigger controls located in overhead control console; sight level bubble also provided in upper cab. Foot controls for boom telescope, swing brake, and engine throttle.
  - **Cab instrumentation** - Corner post mounted gauges for hydraulic oil temperature, air pressure, fuel, water temperature, voltmeter and oil pressure.

- **Swing**
  - Bidirectional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2 r.p.m.
  - **Swing park brake** - 360°, electric over hydraulic (spring applied, hydraulic released) multi-disc brake mounted on the speed reducer. Operated by toggle switch in overhead control console.
  - **Swing brake** - 360°, foot operated, hydraulic applied disc brake mounted on the speed reducer.
  - **Travel Swing lock** - Standard; two position travel swing lock (pin device) operated from the operator’s cab.
  - **Counterweight** - Pinned to upperstructure frame, 12,000 lb. (5443 kg). Hydraulically controlled counterweight removal optional.

- **Hydraulic System**
  - **Main pump** - 4-section gear-type pump. Combined pump capacity of 136 gpm (515 lpm). Mounted on torque converter, powered by engine through a pump disconnect. Pump disconnect is a spline type clutch engaged/disengaged from carrier. Pump operates at 3,500 psi (24.1 MPa) maximum system pressure. 0-ring face seal (ORFS) technology throughout with hydraulic oil cooler standard.
  - **Pilot Pressure / Counterweight Removal Pump** - Pressure compensated piston pump powered by carrier engine. Operates at 1,500 psi (10.3 MPa) maximum.
  - **Telescope / Outrigger / Steering Pump** - Single gear-type pump, 25 gpm (95 lpm) maximum. Mounted on torque converter, powered by engine through a straight mechanical drive. Pump operates at 3,000 psi (20.7 MPa) maximum system pressure.
  - **Reservoir** - 170 gallon (643.5 L) capacity. One diffuser for deaeration.
  - **Filtration** - One 10-micron filter located inside hydraulic reservoir. Accessible for easy replacement.
  - **Control valves** - 6 separate pilot operated control valves allow simultaneous operation of all crane functions.

- **Load Hoist System**
  - **Standard** - 2M main winch with two-speed motor and automatic brake; power up/down mode of operation. Bidirectional piston-type hydraulic motor, driven through planetary reduction unit for positive control under all load conditions. Asynchronous parallel double crossover grooved drums minimize rope harmonic motion. Winch circuit control provides balanced oil flow to both winches for smooth, simultaneous operation.
  - **Optional** - 2M auxiliary winch with two-speed motor, automatic brake, and winch function lockout. Power up/down modes.
  - **Line pulls and speeds** - Maximum available line pull 16,805 lbs. (7623 kg) and maximum line speed of 460 f.p.m. (140 m/min) on 16” (0.41 m) root dia. grooved drum.

- **Additional Equipment - Standard**
  - Fire extinguisher, seat belt, horn, dome light, mirrors, electric windshield wiper/washer, defroster fan, electronic drum rotation indicators, tachometer, backup alarm, audible swing alarm, cab-mounted work lights, and rotation resistant wire rope.

- **Additional Upperstructure Equipment - Optional**
  - 360° swing lock (meets New York City requirements), diesel or hydraulic heater, 70-ton (63.5t) 5 sheave hook block, 50-ton (45.3t) 4 sheave hook block, 8-1/2-ton (7.71 t) hook and ball, top hatch window wiper, rotating beacon, boom floodlight, and audiovisual warning system that monitors water temp., oil pressure, fuel level, and hydraulic oil temp.
Carrier

■ Type
10' 10-1/2" (3.31 m) wide, 151" (3.84 m) wheelbase.
4 x 4 x 4 — (4-wheel steer, 4-wheel drive)
— For rough terrain with limited turning area.
Frame — 100,000 p.s.i. (689.5 MPa) steel, double walled construction with integral 100,000 p.s.i. (689.5 MPa) steel outrigger boxes.

■ Axles
Front- Heavy duty planetary drive/steer type.
Rear- Heavy duty planetary drive/steer type.
Front/Rear - Optional; driver controlled differential lock for high traction.

■ Suspension
Front axle - Rigid mounted to frame.
Rear axle - Pin-mounted on bronze bushings. Automatic hydraulic rear axle oscillation lock-out cylinders engage when upperstructure rotates past 2-1/2° of centerline.

■ Tires
Front and Rear
Standard — 29.5 x 25 (28-PR)
Earthmover type.
Optional — 29.5R25 XHA 1 star radials

■ Brakes
Service — Full air, drum-type brakes at each wheel end. Drum diameter 20-1/4" (0.51 m). Shoe width 4" (101.6 mm). Air service ports standard.
Air dryer — Desiccant type with change indicators; water and oil separator operational to -39°F.
Parking/emergency — Drum type spring applied, air released, fade resistant; cab controlled, mounted on front/rear axles.

■ Steering
Hydraulic two wheel, four wheel and "crab" steering: modes selected by toggle switch on dash. All modes fully controlled by steering wheel.

■ Transmission
Clark three-speed two range power shift transmission. Six speeds available forward and six reverse. Front axle disconnect for two or four-wheel drive.

■ Outriggers
Three position (fully extended, intermediate, and fully retracted) operation capability. Four hydraulic, telescoping beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Beams extend to 23° 0" (7.01 m) centerline-to-centerline and retract to within 10' 10-1/2" (3.31 m) overall width. Equipped with stowable, lightweight 24" (0.61 m) diameter aluminum floats. Controls and sight level bubble located in upperstructure cab.

Confined Area Lifting Capacities (CALC™) System - Outriggers may be extended to an intermediate position (16° 4-3/4" - 5.00 m) for working in confined areas. In addition, capacities are available with the beams in the 10° 3/4" (3.07 m) fully retracted position. When the outrigger position levers (located on the outrigger boxes) are applied, the operator can set the crane in the intermediate or fully retracted outrigger position without having to leave the cab.

■ Additional Equipment - Standard
Cab steps, 2 front and rear carrier steps, front axle disconnect, nonskid safety strips on carrier deck, deep front storage, fenders, pontoon storage, full lighting package, 120 volt block heater, water/fuel separator on engine, and lifting lugs/tow loops.

■ Additional Equipment - Optional
Front towing shackles, ether injection package, spare tires and rims, tire inflation kit, front and rear mounted pintle hook, outrigger cover package, and front tow winch.

<table>
<thead>
<tr>
<th>Engine</th>
<th>Cummins 6CT8.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinders - cycle</td>
<td>6 - 4</td>
</tr>
<tr>
<td>Bore</td>
<td>4.49&quot; (114.05 mm)</td>
</tr>
<tr>
<td>Stroke</td>
<td>5.32&quot; (135.13 mm)</td>
</tr>
<tr>
<td>Displacement</td>
<td>504 cu. in. (8.259 cm³)</td>
</tr>
<tr>
<td>Maximum brake hp</td>
<td>210 @ 2200 rpm</td>
</tr>
<tr>
<td>Peak torque (ft. lb.)</td>
<td>567 @ 1500 rpm</td>
</tr>
<tr>
<td>Electric system</td>
<td>12 volt</td>
</tr>
<tr>
<td>Starting system</td>
<td>24 volt</td>
</tr>
<tr>
<td>Fuel capacity</td>
<td>100 gallons (378.5 L)</td>
</tr>
<tr>
<td>Alternator</td>
<td>130 amps</td>
</tr>
<tr>
<td>Crankcase capacity (total system)</td>
<td>23.7 qts. (22.4 L)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine</th>
<th>Tires</th>
<th>Maximum Speed</th>
<th>*Gradeability at 70% converter efficiency</th>
<th>Maximum tractive effort at 70% converter efficiency</th>
<th>Gradeability at 1.0 mph (1.61 km/h)</th>
<th>Maximum tractive effort at 1.0 mph (1.61 km/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mph</td>
<td>km/h</td>
<td>%</td>
<td>pounds</td>
<td>kg</td>
</tr>
<tr>
<td>Cummins 6CT8.3</td>
<td>29.5 x 25</td>
<td>20.0</td>
<td>32.2</td>
<td>93%</td>
<td>64,664</td>
<td>29,332</td>
</tr>
</tbody>
</table>

*Machine operating angle must not exceed 35° (77% grade).
Numbers reflect main hydraulic pump engaged.
Axle loads

<table>
<thead>
<tr>
<th>G.V.W.°</th>
<th>Upper facing front</th>
<th>Upper facing rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>lbs.</td>
<td>kg</td>
<td>lbs.</td>
</tr>
<tr>
<td>91,816</td>
<td>41,647</td>
<td>44,280</td>
</tr>
</tbody>
</table>

Remove 29.5 x 25.0 tires and wheels
-6,732 -3,054 -3,366 -1,527 -3,366 -1,527 -3,366 -1,527
29.5R25 XHA tires
964 438 482 219 482 219 482 219
Remove outrigger beams
-5,235 -2,374 -2,461 -1,116 -2,774 -1,258 -2,461 -1,116
Jack cylinder covers
154 70 72 33 82 37 72 33 82 37 37
Tow winch
696 311 1,002 454 -316 -143 1,002 454 -316 -143
100 gallons (378.5 liters) fuel
685 310 364 165 321 145 364 165 321 145 145
2M auxiliary winch w/550' (168 m) of 3/4" (19 mm) rope
601 313 -180 -82 871 395 816 370 -125 -57
Remove front carrier counterweights
-3,628 -1,646 -4,858 -2,204 1,230 558 -4,858 -2,204 1,230 558 558
Hydraulic counterweight removal
353 160 163 74 190 86 518 235 -165 -75
Remove counterweight
-12,000 -5,443 6,586 2,987 -18,586 -8,430 -17,633 -7,908 5,633 2,555
Diesel heater with tank
70 32 19 9 51 23 45 21 25 11
Hydraulic heater
170 77 47 21 123 56 110 50 60 27
Air conditioning
287 130 55 25 232 105 209 95 78 35
36" (91.4 cm) offsettable lattice fly slowed
1,458 661 2,470 1,120 -1,012 -459 -1,128 -512 2,586 1,173
36" (91.4 cm) offsettable lattice fly slowed
1,542 700 2,458 1,115 -916 -415 -1,039 -471 2,581 1,171
36" - 61' (11.13 - 18.59 m) offsettable lattice fly slowed
2,250 1,021 3,165 1,436 -915 -415 -1,094 -496 3,344 1,517
Fly storage brackets with all fly options
160 73 228 103 -68 -30 -81 -36 241 109
Auxiliary lifting sheave assembly
110 50 335 152 -225 -102 -233 -106 343 156
8.5-ton hook ball @ front bumper
360 163 566 256 -205 -93 - - -
70-ton 5-sheave hook block @ front bumper
1,390 631 2,186 982 -796 -361 - - -
50-ton 4-sheave hook block @ front bumper
1,150 522 1,809 821 -659 -299 - - -

° Adjust gross vehicle weight & axle loading according to component weight.

Note: All weights are ± 3%