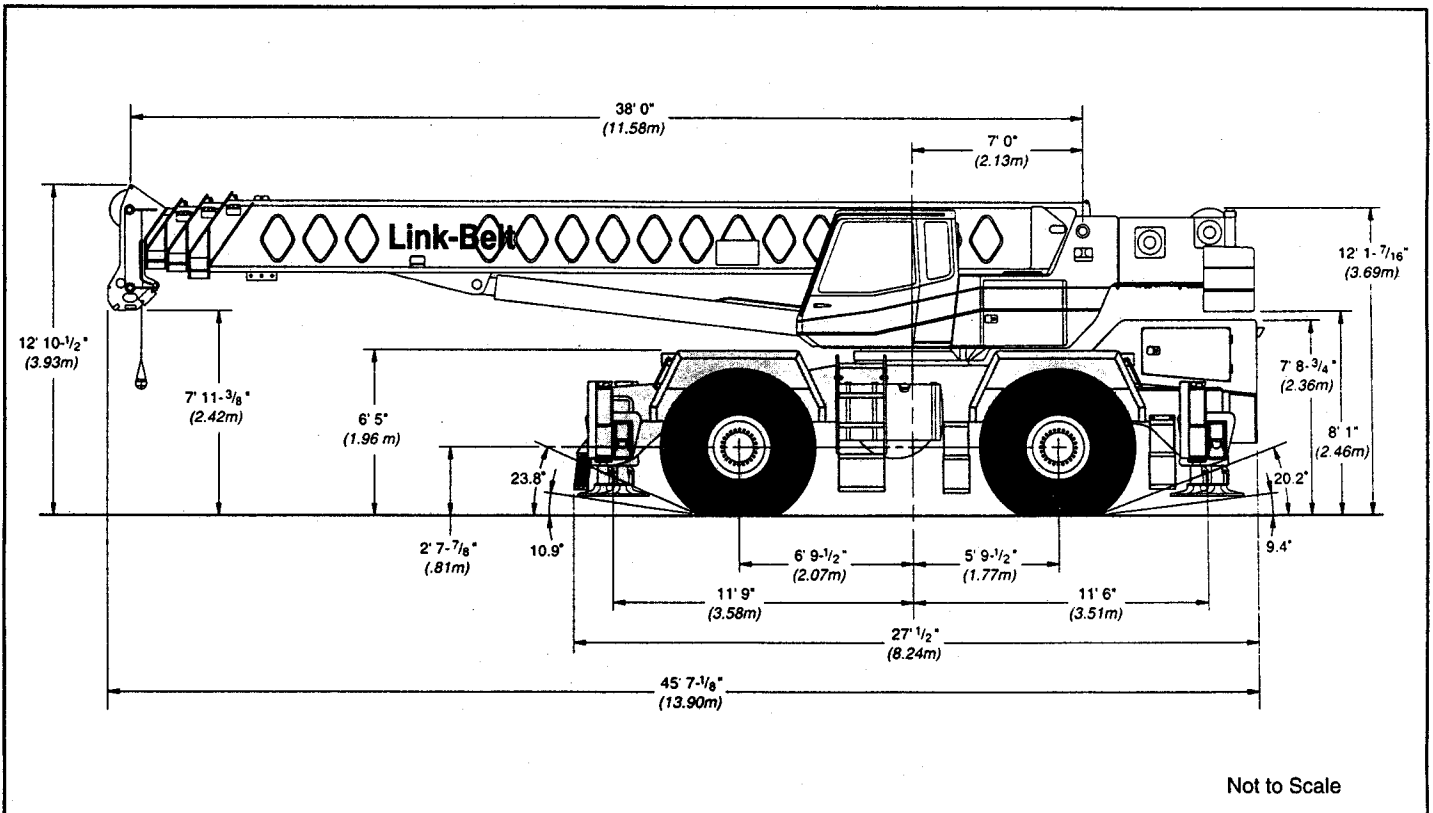


Specifications

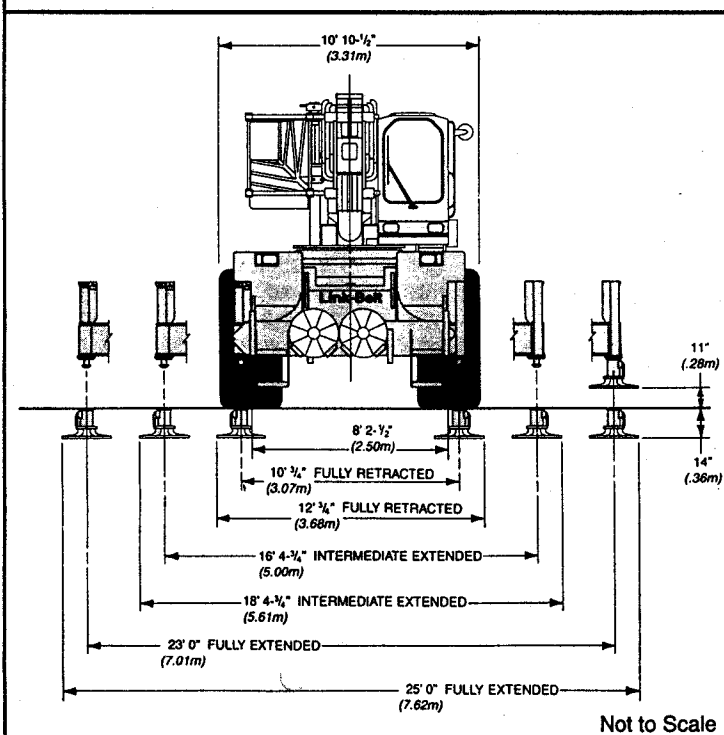
Hydraulic Rough Terrain Crane

RTC-8064

64-ton (58 metric ton)



Not to Scale



Not to Scale

General dimensions	feet	meters
Turning radius (4-wheel steer - centerline of tires)	23.83	7.26
Tailswing of counterweight	13.77	4.20

GENERAL INFORMATION ONLY

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 proportionally 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 multiple 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°.

Optional — 36' 6" - 61' (11.13 - 18.59 m) offsettable stowable 2-piece lattice type. Can be offset 1°, 15°, or 30°.

■ Cab and Controls

Environmental **ULTRA-CAB™** of LFC•2000 construction process featuring laminated fibrous 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 boomhoist. 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. (5 443 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. O-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. (7 623 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 (45.36t) 4 sheave hook block, 8-1/2-ton (7.71 mt) hook and ball, top hatch window wiper, rotating beacon, boom floodlight, and audio/visual 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.

Engine	Cummins 6CT8.3
Cylinders - cycle	6 - 4
Bore	4.49" (114.05 mm)
Stroke	5.32" (135.13 mm)
Displacement	504 cu. in. (8 259 cm ³)
Maximum brake hp	210 @ 2200 rpm
Peak torque (ft. lb.)	567 @ 1500 rpm
Electric system	12 volt
Starting system	24 volt
Fuel capacity	100 gallons (378.5 L)
Alternator	130 amps
Crankcase capacity (total system)	23.7 qts. (22.4 L)

Travel speeds and gradeability

Engine	Tires	Maximum Speed		*Gradeability at 70% converter efficiency	Maximum tractive effort at 70% converter efficiency		Gradeability at 1.0 mph (1.61 km/h)	Maximum tractive effort at 1.0 mph (1.61 km/h)	
		mph	km/h		pounds	kg		pounds	kg
Cummins 6CT8.3	29.5 x 25	20.0	32.2	93%	64,664	29 332	55.9	46,839	21 246

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

Axle loads

Base machine with standard 38' 0" — 115' 0" (11.58 - 35.05 m) four-section boom, 2M main winch with 2-speed hoisting and power up/down, 550' (168 m) 3/4" (19 mm) wire rope, 4x4x4 carrier with Cummins 6CT8.3 engine, 29.5 x 25.0 tires, counterweight, and no fuel.	G.V.W. [ⓐ]		Upper facing front				Upper facing rear			
			Front axle		Rear axle		Front axle		Rear axle	
		lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.
	91,816	41 647	44,280	20 085	47,536	21 562	41,791	18 956	50,025	22 691
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	-3,366	-1 527
29.5R25 XHA tires	964	438	482	219	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	-2,774	-1 258
Jack cylinder covers	154	70	72	33	82	37	72	33	82	37
Tow winch	686	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
2M auxiliary winch w/550' (168 m) of 3/4" (19 mm) rope	691	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
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	-7,998	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' 6" (11.13 m) offsettable lattice fly stowed	1,458	661	2,470	1 120	-1,012	-459	-1,128	-512	2,586	1 173
36' 6" (11.13 m) offsettable lattice fly w/tip lugs stowed	1,542	700	2,458	1 115	-916	-415	-1,039	-471	2,581	1 171
36' 6" - 61' (11.13 - 18.59 m) offsettable lattice fly stowed	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	-206	-93	-	-	-	-
70-ton 5-sheave hook block @ front bumper	1,390	631	2,186	992	-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%

Tire	Max. Axle Load @ 20 mph (32.7 km/hr)
29.5 x 25 (28-PR)	53,000 lbs. (24 041 kg)
29.5R25 XHA 1 Star	53,000 lbs. (24 041 kg)

GENERAL INFORMATION ONLY

Link-Belt Construction Equipment Company Lexington, Kentucky

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