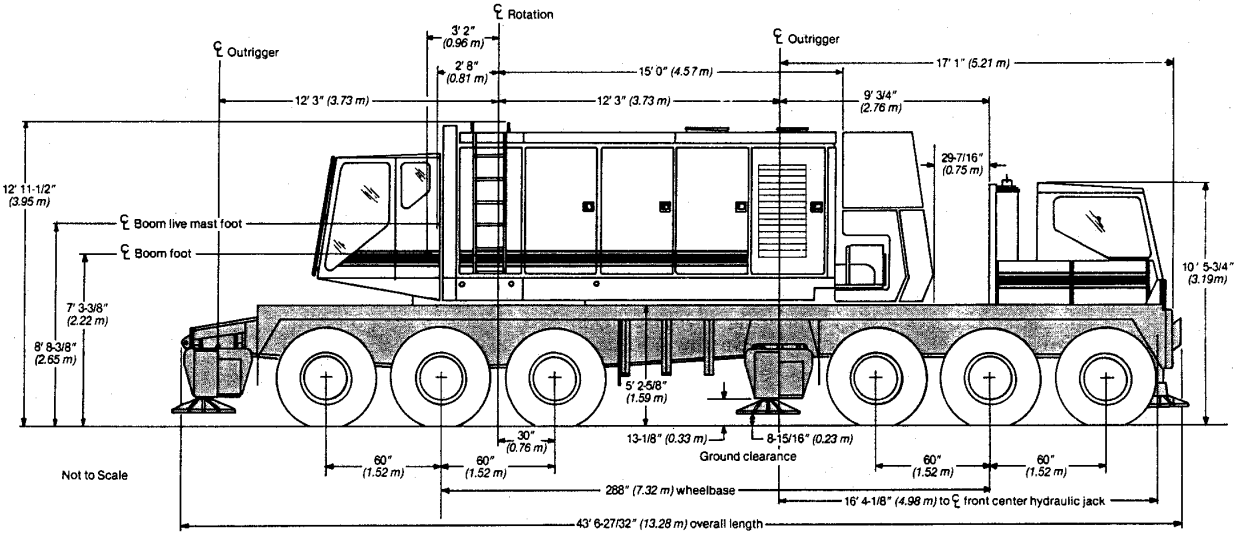
Link-Belt
CONSTRUCTION EQUIPMENT

Specifications

Lattice Boom Truck Crane

GENERAL INFORMATION ONLY

HC-268 250-ton *(227 metric ton)*



Not to Scale

General dimensions	feet	*meters*
Overall width, outriggers extended, (over floats)	27' 4"	*8.33*
Overall width, outriggers extended, (c/l of jacks)	24' 6"	*7.46*
Overall width, outriggers retracted, (jacks removed)	11' 10"	*3.61*
Vehicle clearance circle over outside of front bumper	149' 2"	*45.97*
Vehicle clearance circle over outside of front bumper counterweight	150' 7"	*45.90*
Minimum ground clearance (at bottom of front bogie beams)	8-7/8"	*0.22*
Counterweight tailswing (at corners)	18' 9"	*5.72*
Overall cab width (upper)	11' 10"	*3.61*
Radius of boom hinge pin	3' 2"	*0.97*
Height of boom hinge pin	7' 3-3/8"	*2.22*
Ground clearance under counterweight	5' 5-3/8"	*1.65*

Litho in U.S.A. 6/88

#5103 (supersedes #CR1587)

General Dimensions — Open Throat Boom	feet	*meters*
Basic Boom Length	60'	*18.29*
Overall length: boom in travel position over rear of carrier, with "A" upper and no bumper counterweights—	–	–
With 60' (18.29 m) basic boom — open throat	95' 7" ①	*29.13* ①
Height: over boom live mast with boom in travel position —	–	–
With 60' (18.29 m) basic boom — open throat	21' 9-3/4"	*6.65*

General Dimensions — Hammerhead Boom	feet	*meters*
Basic Boom Length	45'	*13.71*
Overall length: boom in travel position over rear of carrier, with "A" upper and "A" bumper counterweights only —	–	–
With 45' (13.71 m) basic hammerhead boom –	79' 2" ①	*24.13* ①
Height: over boom live mast with boom in travel position over rear of carrier —	–	–
With 45' (13.71 m) basic hammerhead boom	18' 8" ②	*5.69* ②

① Interference with carrier cab prohibits over-the-road travel with boom horizontal over front of carrier.
② Special boom carrying links (for hammerhead boom only) reduce over-all height to 12' 9" (3.89 m).

Travel Weights — approximate

Carrier Only	Front tridem axle		Rear tridem axle		Total	
	lbs	*kgs*	lbs	*kgs*	lbs	*kgs*
Carrier with GM 8V-92 TA engine and with	—	—	—	—	—	—
revolving upperstructure removed	29,455	*13 361*	61,630	*27 955*	91,085	*41 316*
Remove front outrigger jacks	–1,350	*–612*	–850	*–386*	–2,200	*–998*
Remove rear outrigger jacks	+ 890	*+ 404*	–3,090	*–1 402*	–2,200	*–998*
Remove 5 outrigger floats from carrier storage.	–260	*–118*	–485	*–220*	–745	*–338*
	28,735	*13 035*	57,205	*25 949*	85,940	*38 984*
Add front bumper counterweight "A"	+ 15,375	*+ 6 974*	–3,975	*–1 803*	11,400	*5 171*

Revolving Upperstructure Only	Total	
	lbs	*kgs*
Basic crane upper with GM 6V-92T diesel engine, 2-speed planetary on rear drum, boomhoist rope,	—	—
boom stops, boom live mast, full fuel and self undecking equipment	86,590	*39 277*
Add 1,000' *(305 m)* of 1" *(25 mm)* Type "P" wire rope on rear drum	1,850	*839*
Add 1,000' *(305 m)* of 1-1/8" *(29 mm)* Type "N" wire rope on front drum	2,340	*1 061*
	90,780	*41 177*
Add 30' *(9.14 m)* open throat boom base section	4,125	*1 871*

GENERAL INFORMATION ONLY

Link-Belt
CONSTRUCTION EQUIPMENT

Axle Loads — Approximate

Standard HC-268 revolving upperstructure equipped with GM 6V-92T diesel engine with torque converter, power load lowering clutches on front and rear load hoist drums, 47,000 lbs. *(21 319 kg)* counterweight "A", self undecking equipment mounted on 288" *(7.32 m)* wheelbase, 12 × 6 drive carrier, 11' 10" *(3.61 m)* wide, equipped with GM 8V-92 TA diesel engine, front center hydraulic jack, front and rear hydraulic outriggers, 5 jack floats in carrier storage racks and full fuel **Adjust axle loadings accordingly for the following components:**

**	Basic Machine Gross Weight lbs.	Basic Machine Gross Weight kgs	Upper facing front lbs.	Upper facing front kgs	Upper facing rear lbs.	Upper facing rear kgs	Upper facing front lbs.	Upper facing front kgs	Upper facing rear lbs.	Upper facing rear kgs
A	123,780	56 146	-36,280	-16 457	160,060	72 603	61,235	27 776	62,545	28 370
B	91,085	41 316	29,455	13 361	61,630	27 955	29,455	13 361	61,630	27 955
C	214,865	97 462	-6,825	-3 096	221,690	100 558	90,690	41 137	124,175	56 325
	Component Weights		Front axle		Rear axle		Front axle		Rear axle	
	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	lbs.	kg	lbs.	kg
Upperstructure —										
Remove self undecking equipment for upper	-13,910	-6 310	-695	-315	-13,215	-5 994	-2,200	-998	-11,710	-5 312
Counterweight "A"	-47,000	-21 320	29,175	13 234	-76,175	-34 554	-38,965	-17 675	-8,035	-3 645
2-speed planetary on rear drum (load hoist)	500	227	-40	-18	540	245	145	66	355	161
Rear drum wire rope —1,000' *(305 m)* of 1" *(25 mm)* Type "P"	—	—	—	—	—	—	—	—	—	—
2-speed planetary on front drum (load hoist)	1,850	839	-155	-70	2,005	909	540	245	1,310	594
Front drum wire rope —1,000' *(305 m)* of 1-1/8" *(29 mm)* Type "N"	500	227	30	14	470	213	75	34	425	193
Boomhoist wire rope on drum — 876' *(397 m)* of 1" *(25 mm)* Type "N"	—	—	—	—	—	—	—	—	—	—
Boom stops, support struts and lever arms	2,340	1 062	140	64	2,200	998	345	156	1,995	905
Cummins NT855-C310 diesel engine	—	—	—	—	—	—	—	—	—	—
	1,620	735	-335	-152	1,955	887	675	306	945	429
	1,200	544	60	27	1,140	517	1,015	460	185	84
	750	340	-310	-141	1,060	481	465	211	285	129
Carrier—										
Cummins NTC-444 diesel engine	400	181	485	220	-85	-39	485	220	-85	-39
Bumper counterweight "A"	11,400	5 171	15,375	6 974	-3,975	-1 803	15,375	6 974	-3,975	-1 803
Front outrigger box and beams	-10,560	-4 970	-6,490	-2 944	-4,070	-1 846	-6,490	-2 944	-4,070	-1 846
Front outrigger jack housings, cylinders and pistons (2 each)	—	—	—	—	—	—	—	—	—	—
Rear outrigger box and beams	-2,200	-998	-1,350	-612	-850	-386	-1,350	-612	-850	-386
Rear outrigger jack housings, cylinders and pistons (2 each)	-10,560	-4 970	4,290	1 946	-14,850	-6 736	4,290	1 946	-14,850	-6 736
5 jack floats	—	—	—	—	—	—	—	—	—	—
Rear axles & rims for pick & carry capacities	-2,200	-998	890	404	-3,090	-1 402	890	404	-3,090	-1 402
Goodyear SRL-1 tires	-745	-338	-260	-118	-485	-220	-260	-118	-485	-220
Goodyear NDMS tires	2,080	943	0	0	2,080	943	0	0	2,080	943
General HCT tires	1,170	531	390	177	780	354	390	177	780	354
General ESR tires	180	81	60	27	120	54	60	27	120	54
	1,386	629	462	210	924	419	462	210	924	419
	360	163	120	54	240	109	120	54	240	109
Attachment—										
30' *(9.14 m)* open throat tubular boom base section with 4 connecting pins — horizontal over rear of carrier	—	—	—	—	—	—	—	—	—	—
35' *(10.67 m)* boom live mast and bridle – mast horizontal over rear of carrier	—	—	—	—	—	—	—	—	—	—
Boomhoist wire rope (from bail to boom live mast) – mast horizontal over rear of carrier	—	—	—	—	—	—	—	—	—	—
60' *(18.29 m)* open throat tubular boom — horizontal over rear of carrier	—	—	—	—	—	—	—	—	—	—
45' *(13.72 m)* hammerhead tubular boom — horizontal over rear of carrier.	—	—	—	—	—	—	—	—	—	—
	4,125	1 871	—	—	—	—	-2,515	-1 141	6,640	3 012
	6,490	2 944	7,235	3 282	-745	-338	-5,880	-2 667	12,370	5 671
	1,620	735	1,070	485	550	250	-735	-333	2,355	1 068
	9,300	4 218	—	—	—	—	-13,985	-6 344	23,285	10 562
	8,725	3 958	—	—	—	—	-10,935	-4 960	19,660	8 918

** A—Upper, B—Carrier C—Total

GENERAL INFORMATION ONLY

Mounting

Type

288" *(7.32 m)* wheelbase, 12 x 6 drive. 11' 10" *(3.61 m)* wide.

Frame — Main members heat treated alloy steel, triple-box construction. Machined mounting surface for outer race of turntable bearing. Towing shackles front and rear.
Optional — Pintle hook trailer hitch

Turntable bearing — Outer race, with integral external tooth swing (ring) gear bolted to carrier frame.

Outriggers

Dual outriggers, with hydraulic beams and jacks, mounted at center and rear of carrier. Hydraulic outrigger beams and jack cylinders individually controlled from valve at each outrigger beam location. Center outrigger box equipped with rollers which ride in a track to facilitate removal of outrigger assembly when required.

Outrigger box pin puller — hydraulic; standard.

Front center hydraulic jack with float
Single hydraulic jack, with float, mounted at front of the carrier. Jack setting controlled by valve at right front of carrier. Jack/float assembly required for handling 360° swing rated capacities. Warning horn sounds if ground surface allows front center jack/float to settle.

Floats — Low profile steel; 34" *(0.86 m)* diameter (round).

Axles

Front- Tridem; equalizer beam mounted. Eaton EFA24T2, 115" *(2.92 m)* track.

Rear- Tridem; equalizer beam mounted. Planetary. 110" *(2.79 m)* track.

Suspension — Hendrickson bronze bushed equalizer beams with rubber bushed torque rods.

Wheels and rims — Front; cast spoke type. Rear; integral with planetary hubs.

Tires

Single tires on front axles, dual tires on rear axles.

Standard – 14.0 ×24-L (20-ply rating) custom Hi-Miler.

Optional – 14.0×24-L (20-ply rating) General HCT.

– 14.0 ×24-L (20-ply) Goodyear SRL-1.

Brakes

Air brake system

Service — Dual circuit with modulated emergency brakes. Bendix dual circuit 12 wheel air brakes with service chambers on 6 front wheels and spring applied, air released emergency, parking, service chambers on 6 rear wheels. Air dryer standard.

Size —
Rear wheels; 16-1/2" ×7" *(0.50×0.18 m)*
Front wheels; 16-1/2" ×6" *(0.50×0.15 m)*

Steering — Sheppard full integral hydraulic power with one master gear (includes hydraulic control valving), one slave gear (includes no valving) and one hydraulic pump for each axle. Steering gears mounted high on side of frame to minimize exposure to hazards. Separate master and slave for each axle eliminates transfer of steering force from entire system into one axle which could overload and damage linkage. Steering wheel is mechanically connected to axles to allow steering (with increased steering input effort) in the event of hydraulic system failure. Multiple pumps minimize possibility of total hydraulic system failure and only require increase in steering input effort sufficient to compensate for that portion of system that failed. High speed, high power system to maximize maneuverability both on the job site and on the road.

Engines

Carrier engines — Diesel; with starter, full-pressure lubrication, power steering pump, dry-type air cleaner, air compressor and alternator.

Clutch — Lipe-Rollway 15-1/2" *(0.39 m)*
2 plate, dry disc.

Transmissions —

Main — Eaton RTO 14715 twin countershaft; fifteen speeds forward, three reverse.

Auxiliary — Eaton AT 1202; 2-speed midship-mounted, for creep speeds only.

Universals — Needle bearings.

Bumper Counterweight

"A" counterweight — 11,400 lbs. *(5 171 kg).*
"B" counterweight — 15,300 lbs. *(6 940 kg).*

Open Throat Boom

For bumper counterweight use, see section "Open Throat Attachment - Permissible Boom Lengths" on page 7.

Hammerhead boom

For bumper counterweight use, see section "Hammerhead Attachment - Permissible Boom Lengths" on page 7.

Carrier Cab

One-man, fully enclosed. Bucket seat with seat belt. Sound absorbing upholstery. Instrument panel and dash include speedometer, odometer, voltmeter, tachometer, switch for heater/defroster, low air pressure warning buzzer and gauges for fuel, engine temperature and air/oil pressures.

Carrier

Electrical System

12-volt negative ground system with 24-volt starting. Includes dual sealed beam headlights, directional signals with 4-way flashing system, stop and tail lights, clearance lights, horn, dome light, dimmer switch, and two 12-volt 225 ampere hour batteries.

Fuel Tank

One 86 gallon *(325 liter)* capacity tank; side mounted on carrier frame.

Standard auxiliary equipment — West Coast type rear view mirrors, boom guide, lug wrench, 2-way reading bubble levels on both sides of carrier. High pressure lube fittings at all bearing points, hand grab rails fenders, mud flaps and skid-resistant finish on carrier deck

GENERAL INFORMATION ONLY

Link-Belt CONSTRUCTION EQUIPMENT

Engine Specifications	General Motors 8V-92 TA	Cummins NTC-400
Number of cylinders	8	6
Bore	4.84" *(0.12 m)*	5.5" *(0.15 m)*
Stroke	5" *(0.13 m)*	6" *(0.15 m)*
Piston Displacement	736 cu. in. *(12 061 cm3)*	855 cu. in. *(14 011 cm3)*
Max. brake h.p. @ r.p.m.	450 *(335.56 kw)* @ 2,100	400 *(298.28 kw)* @ 2,100
Governed load speed r.p.m.	2,100	2,100
Peak torque @ r.p.m.	1,425 ft. lbs. *(1 932 j)* @ 1,300	1,250 ft. lbs. *(1 695 j)* @ 1,300
Electrical system	12-volt charging/24-volt starting	12-volt charging/24-volt starting
Batteries	Two 12-volt	Two 12-volt
Air compressor	Bendix TU-FLO 1000	Cummins 30 CFM

Carrier Speeds —

Main —Eaton RTO 14715			Auxiliary — Eaton AT 1202			
			1.00 : 1.00		2.036 : 1.00	
Gear		Ratio	m.p.h.	*km/hr*	m.p.h.	*km/hr*
High	10th	.78	43.1	*69.4*	21.2	*34.1*
	9th	1.00	33.6	*54.1*	16.5	*26.6*
	8th	1.30	25.9	*41.6*	12.7	*20.4*
	7th	1.68	20.0	*32.2*	9.8	*15.8*
	6th	2.19	15.3	*24.6*	7.5	*12.1*
	Rev.	2.16	15.6	*25.1*	7.7	*12.4*
Low	5th	2.81	12.0	*19.3*	5.9	*9.5*
	4th	3.57	9.4	*15.1*	4.6	*7.4*
	3rd	4.63	7.3	*11.7*	3.6	*5.8*
	2nd	6.00	5.6	*9.0*	2.8	*4.5*
	1st	7.83	4.3	*6.9*	2.1	*3.4*
	Rev.	7.73	4.4	*7.1*	2.1	*3.4*
Deep reduction	5th	4.34	7.8	*12.6*	3.8	*6.1*
	4th	5.52	6.1	*9.8*	3.0	*4.8*
	3rd	7.16	4.7	*7.6*	2.3	*3.7*
	2nd	9.27	3.6	*5.8*	1.8	*2.9*
	1st	12.10	2.8	*4.5*	1.4	*2.3*
	Rev.	11.95	2.8	*4.5*	1.4	*2.3*

Creep speed in deep reduction low (1st) — based on peak engine torque speed of 1,340 r.p.m. — is .80 m.p.h. *(1.28 km/hr)*

Note: Rear axle ratio — 9.14 to 1.0.

Turning Ability

Turning circle diameter	Curb clearance circle diameter	Vehicle clearance circle diameter		
Centerline of outer front tire	Outside of outer front tire	Over outside of front bumper	Over outside of front bumper counterweight "A"	Over outside of front bumper counterweight "AB"
102' 8" *(31.29 m)*	104' 0" *(31.70 m)*	122' 8" *(37.39 m)*	123' 10" *(37.74 m)*	125' 4" *(38.20 m)*

Upperstructure

Frame

All welded, precision machined; machinery side housings welded integral with frame.

Turntable Bearing

Bearing retainer is bolted to machined surface on underside of frame. Turntable bearing with integral external tooth swing (ring) gear is bolted on carrier. Patented (hydraulic cylinder actuated) quick disconnect lock ring facilitates removing upper from carrier for transport without disturbing the turntable bearing mounting.

Engines

Diesel; full pressure lubrication, oil filter, air cleaner, hour meter, foot and optional hand throttles. Electrically energized control shutdown for GM and Cummins engines, switch key operated.

GENERAL INFORMATION ONLY

Engine	GM 6V–92T	Cummins NT855–C310
Number of cylinders Bore Stroke	6 4.84" *(0.12 m)* 5" *(0.13 m)*	6 5.5" *(0.14 m)* 6" *(0.15 m)*
Piston Displacement Maximum h.p. @ full load speed rpm High idle speed Peak torque @ converter stall	522 cu. in. *(9 046 cm^3)* 314 h.p. *(234 kw)* @ 2000 rpm 2,190 rpm 3,067 ft. lbs. *(424 kgm)*	855 cu. in. *(14 013 cm^3)* 314 h.p. *(234 kw)* @ 2000 rpm 2,200 rpm 3,139 ft. lbs. *(434 kgm)*
Electrical system Batteries	12-volt Two 12-volt	12 volt Two 12-volt
Clutch or power take-off	Disconnect clutch between engine and converter.	Disconnect clutch between engine and converter
Transmission Number chain wheel teeth Number engine pinion teeth	 147 18	 147 18

Power Train

Transmissions

Quadruple width roller chain for main load hoist system. Chain drive transfers power from engine/torque converter power package to expanded Full-Function gear train.

Fuel Tank

143.4 gallon *(542.8 liter)* capacity; equipped with fuel level gauge and flame arrester filler pipe cap with locking eye for padlock.

Machinery Gear Train

Expanded Full-Function design. Machine cut teeth on drum gears, pinions, spur gears, sprockets and chain wheels. Components such as gears, pinions, sprockets, chain wheels, wire rope drums, brake discs and clutch spiders – involute splined to shafts. Operating shafts mounted on anti-friction bearings; drum gear/clutch drum assemblies bolted together and mounted on shafts on anti-friction bearings.

Principal Operating Functions

Control System

Speed-o-Matic® power hydraulics; a variable pressure system requiring no bleeding. Operating pressure is transmitted through oil to all operating cylinders. The system includes a pump to provide a constant flow of oil, two accumulators to maintain operating pressure, oil filter, relief valve, and variable pressure operator controlled valves to regulate the pressure to each hydraulic cylinder.

Hydraulic Oil Reservoir

Link-Belt, 30-gallon *(113.55 liter)* capacity with filter and strainer assembly.

Load Hoisting & Lowering

Wire rope drum gear train (front and rear main operating drums) powered through chain drive by independent Type 4 torque converter. Independent torque converter assures ample torque for load line speeds and pulls (as well as for boom hoisting/lowering) without affecting swing system.

Load Hoist Drums

Front and rear main operating drums – One-piece, smooth 20" *(0.51 m)* root diameter. Ratchet wheel for drum locking pawl integral with drum flange.

Drum Clutches

Speed-o-Matic® power hydraulic two-shoe clutches. Internal expanding, lined shoes; clutch spiders splined to shafts, clutch drums bolted to drum spur gears and mounted on shafts on anti-friction bearings.

Load Hoist clutches — Front and rear main operating drums – 37" *(0.94 m)* diameter, 5-1/2" *(0.14 m)* face width.

Load Lowering Clutches— Front and re main operating drums – 37" *(0.94 m)* diameter, 5-1/2" *(0.14 m)* face width.

Drum Locking Pawls — Operator controlled; spring applied, hydraulically released. Standard on front and rear main operating drums.

Drum planetary drive units — Optional for load hoist on either or both front and rear main operating drums. Available for increased load line speeds only. Planetary drive units controlled by external contracting band brakes through push button located on hoist clutch control lever handles. Standard line speeds controlled by Speed-o-Matic® power hydraulic two-shoe clutches.

Drum Brakes

Disc type. Brake disc is 34" *(0.86 m)* diameter, 1-1/4" *(32 mm)* thick. Hydraulically applied service brake; spring applied parking brake.

Automatic drum brakes — *Optional.* Automatically hydraulically applied when front or rear main operating drum clutch control levers are in neutral (clutches disengaged) position.

Drum Rotation Indicators

Standard for front and rear main operating drums. Two solenoid operated indicator buttons, recessed in drum clutch control lever handles; one button pulsates when rope drums rotate in one direction, and the other button pulsates when drums rotate in the opposite direction. Three to five pulsations represent approximately 1" *(25 mm)* rope travel on or off drum.

Swing System

Hydrostatic. Variable displacement pump drives bi-directional, fixed displacement motor mounted on planetary swing drive case.

Swing Brake — Spring loaded, hydraulically released multi-plate swing brake mounted at input side of planetary gear box. Brake controlled by valve on control stand in crane operator's cab.

Swing lock — Operator controlled pawl; mechanically engaged and released. Pawl engages external teeth of turntable bearing swing (ring) gear.

Maximum swing speed — 2.4 r.p.m.

Boom Hoist/Lowering System

Standard — Hydraulic. Boomhoist motor — variable displacement, bi-directional.

Boomhoist pump — Variable displacement; controlled from the operator's position in crane cab.

Boomhoist Drum

One-piece, smooth; 18" *(0.48 m)* root diameter. Ratchet wheel for drum locking pawl integral with drum flange.

Wire rope drum winch drive — Two-stage planetary gear drive.

Boomhoist lowering brake — Multiple disc, integral with drum drive unit. Spring applied, hydraulically released with integral free-wheeling device.

Boomhoist Drum Locking Pawl

Operator controlled; spring applied and mechanically released with push/pull cable.

Boomhoist limiting device — Provided to restrict hoisting boom above maximum recommended boom angle; located on exterior right-hand side of operator's cab. Electrical switch contacted by boom striker bracket, deactivates hydraulic solenoid valve which shuts off hydraulic pressure in line to boomhoist pump and brake. As pressure is shut off, boomhoist brake is spring applied.

Electrical System

Battery. Two 12-volt, 225 ampere hour batteries and 12-volt, 60 ampere alternator.

Optional — Battery lighting system, including two sealed beam automotive type, adjustable headlights located on cab front roof, one interior cab light and automotive type wiring.

Optional — Additional 50 watt sealed beam automotive type headlight mounted on boom. (Three maximum quantity recommended.)

Operator's Cab

Environmental cab, modular type with sliding door; isolated from upper machinery cab. Cab door and windows equipped with safety tinted glass panels. Standard cab equipment includes hand grab rail, cab heater/defroster and windshield wiper/washer.

Machinery Cab

Equipped with warning horn, hinged doors for access to machinery, roof-top access ladder and skid resistant finish on roof.

Gantry

Mounted to upper frame; supports boom suspension system.

Gantry Bail

Pinned to gantry; supports boom suspension system. Bail contains 8 sheaves for 18-part boomhoist rope reeving; sheaves mounted on anti-friction bearings.

Counterweight

Total 85,000 lbs. *(38 556 kg).* "A" counterweight — two-piece 47,000 lbs. *(21 319 kg)* — held in place on two hydraulically controlled frustums; frustum control valves located at rear of upper machinery cab. "B" counterweight — 38,000 lbs. *(17 237 kg)* bolted in position on top of "A" counterweight. "A" or "AB" counterweight lowered to, or raised from, carrier deck in seconds. NOTE: "B" counterweight alone cannot be lowered.

Attachment — Open Throat

Boom — Tubular; two section basic boom 60' *(18.29 m)* long.

Base section — 30' *(9.14 m)* long, 80" *(2.03 m)* wide, 68" *(1.73 m)* deep. Lifting lugs on top side of base section to attach carrying links for carrying boom base section.

Boom extensions — Available in 10' *(3.05 m)*, 20' *(6.10 m)*, 30' *(9.14 m)*, 40' *(12.19 m)* and 50' *(15.24 m)* lengths; 80" *(2.03 m)* wide, 68" *(1.73 m)* deep, centerline-to-centerline of main chords. Extensions furnished with appropriate length pendants, and one hoist line deflector roller per extension.

Boom connections — In-line, tapered pins.

Boom top section — Open throat; 30' *(9.14 m)* long.

Boompoint machinery — Six 21" *(0.53 m)* root diameter head sheaves mounted on anti-friction bearings.

Boom midpoint suspension pendants — Required for all boom lengths exceeding 240' *(73.15 m)*. Pendants connected at 140' *(42.67 m)* point of boom.

Permissible Boom Lengths — without jib.
With "A" upper and "A" bumper counterweights — 60' through 280' *(18.29 through 85.34 m)*.
With "AB" upper counterweight only — 60' through 300' *(18.29 through 91.44 m)*.
With "AB" upper and "A" bumper counterweights — 90' through 310' *(27.43 through 94.48 m)*.
With "AB" upper and "AB" bumper counterweights — 150' through 330' *(45.72 through 100.58 m)*.

Permissible Boom Lengths — with jib.
With "AB" upper and "A" bumper counterweights — 60' through 280' *(18.29 through 85.34 m)*.
With "AB" upper and "AB" bumper counterweights — 290' through 300' *(88.39 through 91.44 m)*.

Attachment — Hammerhead

Boom — Tubular; three section basic boom 45' *(13.71 m)* long.

Base section — 30' *(9.14 m)* long; 80" *(2.03 m)* wide, 68" *(1.73 m)* deep.

Straight Extensions — Available in 10' *(3.05 m)*, 20' *(6.10 m)*, 30' *(9.14 m)*, 40' *(12.19 m)* and 50' *(15.24 m)* lengths; 80" *(2.03 m)* wide, 68" (1.73 m) deep, centerline-to-centerline of main chords. In making up various boom lengths, straight extensions **must be arranged** in the boom as outlined on boom make up plate #28P971.

Tapered Extensions — 10' *(3.05 m)* long; 80" *(2.03 m)* wide, 68" *(1.73 m)* deep at lower end and 55" *(1.40 m)* wide, 41" *(1.04 m)* deep at top end — for use on boom lengths 45' *(13.72 m)* through 245' *(74.68 m)*.

Note: Tapered extension must always be used as last boom section prior to mounting hammerhead top section.

Hammerhead Top Section — 5' *(1.52 m)* long; 55" *(1.40 m)* wide, 41" *(1.04 m)* deep at lower end.

Maximum hammerhead boom length permitted — 245' *(74.68 m)*.

Boompoint Machinery — Six 21" *(0.53 m)* root diameter sheaves; mounted on anti-friction bearings.

Link-Belt
CONSTRUCTION EQUIPMENT

Permissible Boom Lengths — without jib.
With "A" upper and "A" bumper counterweights — 45' through 245' *(13.72 through 74.68 m)*.
With "AB" upper counterweight only — 45' through 245' *(13.72 through 74.68 m)*.
With "AB" upper and "A" bumper counterweights — 95' through 245' *(28.96 through 74.68 m)*.

Permissible Boom Lengths — with jib.
With "AB" upper and "A" bumper counterweights — 115' through 205' *(35.05 through 62.48 m)*.

Items Applicable to Both Hammerhead and Open Throat Tip Booms —

Boom Stops

Dual lever type; connected to upper frame and top of boom base section. Spring loaded bumper ends.

Boom Live Mast

Mounted on front of upper frame; supports boomhoist bridle, spreader bar and boom midpoint suspension pendants. Mast 35' *(10.67 m)* long; may be used as short boom for handling counterweight, outrigger assemblies, etc. in machine stripdown and for boom assembly/disassembly.

Boom live mast stops — Incorporated with boom stops; manually positioned when using live mast as short boom.

Boomhoist Bridle and Spreader Bar

Serves as connection for boom suspension system. Bridle contains nine 15" *(0.38 m)* root diameter sheaves (for 18-part boomhoist reeving) and two 15" *(0.38 m)* root diameter auxiliary load hoist sheaves which enable boom live mast to be used as short boom for machine assembly/disassembly.

Sheaves mounted on anti-friction bearings. Spreader bar provides attachment point for boom main pendants.

Boom pendants — Standard; furnished for basic boom lengths plus appropriate length pendants with each boom extension.

Deflector rollers — Deflect load hoist wire rope off boom to avoid chafing; steel rollers mounted on anti-friction bearings. One roller furnished with each boom extension.

Jib

Tubular; two-piece basic jib 30' *(9.14 m)* long; 32" *(0.81 m)* wide, 24" *(0.61 m)* deep at centerline of connections. Alloy steel tubular chords 2-1/4" *(57 mm)* outside diameter.

Base section — 13' 3" *(4.04 m)* long.

Jib extensions — Available in 20' *(6.1 m)* lengths with appropriate length pendants.

Jib connections — In-line, tapered pins.

Tip section — 15' *(4.57 m)* long; equipped with single peak sheave 21" *(0.53 m)* root diameter, heat treated and mounted on anti-friction bearings. Anchor provided at peak of jib tip section for two-part load hoist wire rope (whipline) connection.

Maximum jib length permitted — 90' *(27.43 m)*. All jib lengths may be mounted at 5°, 15° or 25° offset to boom.

Jib Mast

17' 10" *(5.44 m)* long, mounted on jib base section. Two deflector sheaves mounted within mast to guide whipline; mounted on anti-friction bearings. Two equalizer sheaves mounted on top of mast — one for jib frontstay line, one for jib backstay line.

Jib staylines — Front and back staylines. Back staylines vary in length depending on degree of jib offset from boom centerline; back staylines attached at bottom end of boom top section.

Jib stops — Telescoping type; pinned from jib mast to boom top section and from jib mast to jib base section.

Boomfeet — 4" *(101.60 mm)* wide on 66" *(1.68 m)* centers; 5" *(0.13 m)* diameter boomfoot pins. Pins hydraulically removed/inserted for ease in stripdown. Double-acting hydraulic cylinder mounts on frame between boomfoot lugs.

Boomfoot pins — one connected to cylinder rod end, the other connected to the cylinder body — are pushed in, or pulled from, connection with boomfeet.

Auxiliary Equipment

Boom Angle Indicator

Pendulum type; mounted on boom base section.

Anti-two block warning device — *Optional*: available for main load hoist line and/or jib line.

Load moment device— *Optional*: audio/visual warning device for main load hoist line, or main load hoist line and jib line.

Automatic function kickout system — *Optional:* for use with anti-two block warning device and/or load moment device. Note: requires optional automatic brakes.

Load hoist wire ropes — Main load hoist wire rope standard. Jib load hoist wire rope (whipline) furnished with machine only if jib is ordered.

Hook blocks — Blocks, or weighted ball with swivel hook, optional – refer to price list.

GENERAL INFORMATION ONLY

Link-Belt Construction Equipment Company Lexington, Kentucky

GENERAL INFORMATION ONLY

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Link-Belt® HC-268 Performance Specifications

Boom live mast — lifting capacities when used as short boom ①

Load radius		Upper without counterweight			
		On tires		On outriggers	
Feet	*meters*	Pounds	*kilograms*	Pounds	*kilograms*
12′ to 17′ ②	*3.66 to 5.18*	47,000	*21 319*	85,000	*38 556*
17′ to 28′	*5.18 to 8.53*	30,000	*13 608*	85,000	*38 556*

① Use of live mast as short boom is intended for machine assembly or disassembly only. It should not be used for general crane service. Lifting maximum **85,000 lbs.** *(38 556 kg)* capacity requires 3-parts of **1″** *(25 mm)* or **1-1/8″** *(29 mm)* diameter Type "N" wire rope.

② Live mast must never be operated at less than **12′** *(3.66 m)* radius.

Live mast stops must be in place and operative.
Maximum capacity of live mast is based on strength of materials.
In hoisting loads on live mast, reeve wire rope off rear main drum only and over the mast cross member.

Wire rope and rope drum data

Main load hoist wire rope length — for tubular booms using 1⅛″ *(29 mm)* diameter wire rope.

Parts of line	Boom length											
	60′ *(18.29 m)*		70′ *(21.34 m)*		80′ *(24.38 m)*		90′ *(27.43 m)*		100′ *(30.48 m)*		110′ *(33.53 m)*	
	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*
1	145	*44.20*	165	*50.92*	180	*54.86*	200	*60.96*	220	*67.06*	240	*73.15*
2	210	*64.01*	240	*73.15*	270	*82.30*	300	*91.44*	330	*100.58*	360	*109.73*
3	275	*83.82*	315	*96.01*	355	*108.20*	395	*120.40*	435	*132.59*	475	*144.78*
4	340	*103.63*	390	*118.87*	440	*134.11*	490	*149.35*	540	*164.59*	590	*179.83*
5	405	*123.44*	470	*143.26*	525	*160.02*	585	*178.21*	645	*196.60*	705	*214.88*
6	475	*144.78*	545	*166.12*	610	*185.92*	680	*207.26*	750	*228.60*	820	*249.94*
7	540	*164.59*	620	*188.98*	700	*213.36*	780	*237.74*	850	*259.08*	935	*284.99*
8	605	*184.40*	700	*213.36*	785	*239.27*	875	*266.70*	960	*292.61*	1,050	*320.04*
9	670	*204.22*	770	*234.70*	870	*265.18*	970	*295.66*	1,070	*326.14*		
10	735	*224.03*	845	*257.56*	955	*291.08*	1,065	*324.61*				
11	800	*243.84*	925	*281.94*								
12	870	*265.18*										

Parts of line	Boom length											
	120′ *(36.58 m)*		130′ *(39.62 m)*		140′ *(42.67 m)*		150′ *(45.72 m)*		160′ *(48.77 m)*		170′ *(51.82 m)*	
	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*
1	260	*79.25*	280	*85.34*	300	*91.44*	320	*97.54*	340	*103.63*	360	*107.73*
2	390	*118.81*	415	*126.49*	450	*137.16*	475	*144.78*	505	*153.92*	535	*163.57*
3	515	*156.97*	550	*167.64*	590	*179.83*	630	*192.02*	670	*204.22*	710	*216.41*
4	640	*195.07*	690	*210.31*	740	*225.55*	790	*240.79*	840	*256.03*	885	*369.75*
5	765	*233.17*	825	*251.46*	885	*269.75*	945	*288.04*	1,000	*304.80*	1,060	*323.09*
6	890	*271.27*	960	*292.61*	1,030	*313.94*	1,100	*335.28*	1,170	*356.62*		
7	1,015	*309.37*	1,095	*333.76*	1,175	*358.14*						
8	1,140	*347.47*										

Parts of line	Boom length											
	180′ *(54.86 m)*		190′ *(57.91 m)*		200′ *(60.96 m)*		210′ *(64.01 m)*		220′ *(67.06 m)*		230′ *(70.10 m)*	
	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*
1	380	*115.82*	400	*121.92*	420	*128.02*	440	*134.11*	460	*140.21*	480	*146.30*
2	565	*172.21*	595	*181.36*	625	*190.50*	655	*199.64*	685	*208.79*	715	*217.93*
3	750	*228.60*	790	*240.79*	830	*252.98*	870	*265.18*	910	*277.37*	950	*289.56*
4	935	*284.90*	985	*300.23*	1,035	*315.47*	1,085	*330.71*	1,135	*345.95*		
5	1,120	*341.38*	1,180	*359.66*								

Parts of line	Boom length											
	240′ *(93.15 m)*		250′ *(76.20 m)*		260′ *(79.25 m)*		270′ *(82.30 m)*		280′ *(85.34 m)*		290′ *(88.39 m)*	
	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*
1	500	*152.40*	520	*158.50*	540	*164.59*	560	*170.69*	580	*176.78*	600	*182.88*
2	745	*227.07*	775	*236.22*	805	*245.36*	835	*254.51*	865	*263.65*	895	*272.80*
3	990	*301.75*	1,030	*313.94*	1,070	*326.14*						

Parts of line	Boom length							
	300′ *(91.44 m)*		310′ *(94.49 m)*		320′ *(97.54 m)*		330′ *(100.58 m)*	
	Feet	*meters*	Feet	*meters*	Feet	*meters*	Feet	*meters*
1	620	*188.98*	640	*195.07*	660	*201.17*	680	*207.26*
2	925	*281.94*	955	*291.08*	985	*300.23*	1,015	*309.37*

GENERAL INFORMATION ONLY

HC-268 performance specifications

Wire rope and rope drum data — (continued)

Jib load hoist rope lengths (whipline) — using 1" *(25 mm)* diameter wire rope

Jib length	Parts of line	Boom length 60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	210	64.01	230	70.10	250	76.20	270	82.30	290	88.39	310	94.49
	2	310	94.49	340	103.63	470	143.25	400	121.92	430	131.06	460	140.20
50' (15.24 m)	1	250	76.20	270	82.30	290	88.39	310	94.48	330	100.58	350	106.68
	2	370	112.77	400	121.92	430	131.06	460	140.20	490	149.35	520	158.49
70' (21.33 m)	1	390	118.87	310	94.49	330	100.58	350	106.68	370	112.77	390	118.87
	2	430	131.06	460	140.20	490	149.35	520	158.49	550	167.64	580	176.78
90' (27.43 m)	1	430	131.06	350	106.68	370	112.77	390	118.87	410	124.96	430	131.06
	2	490	149.35	520	158.49	550	167.64	580	176.78	610	185.92	640	195.07

Jib length	Parts of line	Boom length 120' (36.58 m)		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)		160' (48.77 m)		170' (51.82 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	330	100.58	350	106.68	370	112.77	390	118.87	410	124.93	430	131.06
	2	490	149.35	520	158.49	550	167.64	580	176.78	610	185.92	640	105.07
50' (15.24 m)	1	370	112.77	390	118.87	410	124.96	430	131.06	450	137.16	470	148.25
	2	550	167.64	580	176.78	610	185.92	640	195.07	670	204.21	700	213.36
70' (21.33 m)	1	410	124.96	430	136.06	450	137.16	470	143.25	490	149.35	510	155.44
	2	610	185.92	640	195.07	670	204.21	700	213.36	730	222.50	760	231.64
90' (27.43 m)	1	450	137.16	470	143.25	490	149.35	510	155.44	530	161.54	550	167.64
	2	670	204.21	700	213.36	730	222.50	760	231.64	790	290.79	820	249.93

Jib length	Parts of line	Boom length 180' (54.86 m)		190' (57.91 m)		200' (60.96 m)		210' (64.01 m)		220' (67.06 m)		230' (70.10 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	450	137.16	470	143.25	490	149.35	510	155.44	530	161.54	550	167.64
	2	670	204.21	700	213.36	730	222.50	760	231.64	790	240.79	820	249.93
50' (15.24 m)	1	490	149.35	510	155.44	530	161.54	550	167.54	570	173.73	590	179.83
	2	730	222.50	760	231.64	790	240.79	820	249.93	850	259.08	880	268.22
70' (21.33 m)	1	530	161.54	550	167.54	570	173.73	590	179.83	610	185.92	630	192.02
	2	790	240.79	820	249.93	850	259.08	880	268.22	910	277.36	940	286.51
90' (27.43 m)	1	570	173.33	590	179.83	610	185.92	630	192.02	650	198.12	550	167.64
	2	850	259.08	880	268.22	910	277.36	940	286.51	970	295.65	820	249.93

Jib length	Parts of line	Boom length 240' (70.10 m)		250' (76.20 m)		260' (79.25 m)		270' (82.30 m)		280' (85.34 m)		290' (88.39 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	570	173.73	590	179.83	610	185.92	630	192.02	650	198.12	670	204.21
	2	850	259.08	880	268.22	910	277.36	940	286.51	970	296.65	1,000	304.80
50' (15.24 m)	1	610	185.92	630	192.02	650	198.12	670	204.21	690	210.31	710	216.40
	2	910	277.36	940	286.51	970	295.65	1,000	304.80	1,030	313.94	1,060	323.08
70' (21.33 m)	1	650	198.12	670	204.21	690	210.31	710	216.40	730	222.50	750	228.60
	2	970	295.65	1,000	304.80	1,030	313.94	1,060	323.08	1,090	332.23	1,120	341.37
90' (27.43 m)	1	690	210.31	710	216.40	730	222.50	750	228.60	770	234.69	790	240.79
	2	1,030	313.94	1,060	323.08	1,090	332.23	1,120	341.37	1,150	350.52	1,180	359.66

Jib length	Parts of line	Boom length 300' (91.44 m)	
		Feet	meters
30' (9.14 m)	1	690	210.31
	2	1,030	313.94
50' (15.24 m)	1	730	222.50
	2	1,090	332.23
70' (21.33 m)	1	770	234.69
	2	1,150	350.52
90' (27.43 m)	1	810	246.88
	2	1,210	368.80

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HC-268 performance specifications

Wire rope and rope drum data — (continued)

Drum wire rope capacities

Wire rope layer	Front or rear drum —20" (0.51 m) root diameter smooth lagging								Boomhoist drum — 18" (0.46 m) root diamter smooth lagging			
	1" (25 mm) wire rope				1-1/8" (29 mm) wire rope				1" (25 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope		Rope per layer		Total per layer	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	151.5	46.17	151.5	46.17	134.9	41.11	134.9	41.11	148.0	45.11	148.0	45.11
2	166.0	50.59	317.5	96.77	149.3	45.50	284.1	71.35	163.6	49.86	311.6	94.97
3	180.3	54.95	497.8	151.72	163.6	49.86	447.8	136.48	179.1	54.58	490.7	149.56
4	194.9	59.40	692.7	211.13	178.0	53.34	625.8	190.74	194.7	59.34	685.4	208.90
5	209.2	63.76	901.9	274.89	192.4	58.64	818.1	249.35	210.3	64.09	895.7	273.00
6	223.7	69.18	1,125.6	343.08	206.7	63.00	1,024.8	312.35				
7	238.1	72.57	1,363.7	415.65								

Wire rope size and type

Wire rope application	Size and type used
Boomhoist	1" (25 m) diameter, Type "W"
Main load hoist	1-1/8" (29 mm) diameter, Type "N"
Jib load hoist (1-part)	1" (25 mm) diameter, Type "P"
Jib load hoist (2-part)	1" (25 mm) diameter, Type "N"
Boom pendants	1-1/4" (32 mm) diameter, Type "N"
Boom midpoint suspension pendants	1" (25 mm) diameter, Type "N"
Jib frontstay line	7/8" (22 mm) diameter, Type "N"
Jib backstay line	7/8" (22 mm) diameter, Type "N"

Wire rope types

Type "N" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, indpendent wire rope center, right lay, regular lay.

Type "P" — 19 x 7 non-rotating, extra improved plow steel, preformed, wire rope center core.

Type "W" — 6 x 26 (6 x 19 class), extra improved plow steel, preformed, independent wire rope center, right lay, alternate lay.

Available line speed and line pull ① — based on GM6V-92T diesel engine with Twin Disc Type 4 torque converter developing net horsepower based on 70% efficiency as defined by P.C.S.A. Standard #1.

Attachment	Front drum						
	Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer	
		Inches	mm	F.p.m.	m/min	Pounds	kilograms
Crane	20" (0.51 m)	1⅛	29	81	29.69	66,800	30 300
	Rear drum						
	20" (0.51 m)	1⅛	29	81	29.69	66,800	30 300

Permissible line speed and pull ① — based on Type "N" wire rope strength, single part line.

Attachment	Front drum						
	Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer	
		Inches	mm	F.p.m.	m/min	Pounds	kilograms
Crane	20" (0.51 m)	1⅛	29	179	54.56	37,100	16 829
	Rear drum						
	20" (0.51 m)	1⅛	29	184	56.08	37,100	16 829

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HC-268 performance specifications

GENERAL INFORMATION ONLY

Wire rope and rope drum data — (continued)

Load hoisting performance — line speeds are maximum for full throttle operation (2,000 r.p.m. full load speed) with GM6V-92T diesel engine equipped with Twin Disc Type 4 torque converter.

Single line load ①		Front drum — 20" *(0.51 m)* root diameter smooth — using 1" *(25 mm)* wire rope											
		Line speed											
		First layer rope				Fourth layer rope				Sixth layer rope			
		Standard		High speed ②		Standard		High speed ②		Standard		High speed ②	
Pounds	*kilograms*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*
5,000	*2 268*	314	*95.71*	527	*160.63*	402	*122.53*	656	*199.95*	460	*140.21*	735	*224.03*
10,000	*4 536*	307	*93.57*	463	*141.12*	379	*115.32*	539	*164.29*	424	*129.24*	574	*174.96*
15,000	*6 804*	286	*87.17*	385	*117.35*	342	*104.24*	413	*125.88*	372	*113.39*	417	*127.10*
20,000	*9 072*	263	*80.16*	311	*94.79*	301	*91.74*	314	*95.71*	317	*96.62*		
25,000	*11 340*	237	*72.24*	252	*76.80*	259	*78.94*			265	*80.77*		
29,500	*13 381*	215	*65.53*			225	*68.58*			227	*69.19*		
		Rear drum — 20" *(0.51 m)* root diameter smooth — using 1" *(25 mm)* wire rope											
5,000	*2 268*	314	*95.71*	527	*160.63*	402	*122.53*	659	*200.86*	460	*140.21*	739	*225.25*
10,000	*4 536*	308	*93.88*	467	*142.34*	381	*116.13*	546	*116.42*	426	*129.84*	584	*178.00*
15,000	*6 804*	288	*87.78*	392	*119.48*	346	*105.46*	423	*128.93*	377	*114.91*	429	*130.76*
20,000	*9 072*	266	*81.08*	319	*97.23*	306	*93.27*	325	*99.06*	323	*98.45*		
25,000	*11 340*	241	*73.46*	260	*79.25*	265	*80.77*			272	*82.91*		
29,500	*13 381*	219	*66.75*			232	*70.71*			234	*71.32*		

① Maximum permissible load on single part of line using Type "N" wire rope — **29,500 lbs.** *(13 381 kg)* for **1"** *(25 mm)* wire rope. Type "P" wire rope — **1"** *(25 mm)*, single part line — **16,800 lbs.** *(7 620 kg)*. Type "N" wire rope — **1"** *(25 mm)*, two-part line — **59,000 lbs.** *(26 762 kg)*.

② Machine equipped with optional high speed planetary drum drive units.

Load hoisting performance — line speeds are maximum for full throttle operation (2,000 r.p.m. full load speed) with GM6V-92T diesel engine equipped with Twin Disc Type 4 torque converter.

Single line load ①		Front drum — 20" *(0.51 m)* root diameter smooth — using 1⅛" *(29 mm)* wire rope											
		Line speed											
		First layer rope				Fourth layer rope				Sixth layer rope			
		Standard		High speed ②		Standard		High speed ②		Standard		High speed ②	
Pounds	*kilograms*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*
5,000	*2 268*	316	*96.32*	530	*161.54*	414	*126.19*	674	*205.44*	480	*146.30*	761	*231.95*
10,000	*4 536*	309	*94.18*	465	*141.73*	389	*118.57*	548	*167.03*	438	*133.50*	584	*178.00*
15,000	*6 804*	287	*87.48*	386	*117.65*	349	*106.38*	415	*126.49*	381	*116.13*	419	*127.71*
20,000	*9 072*	264	*80.47*	311	*94.79*	305	*92.96*	313	*95.40*	321	*97.84*		
25,000	*11 340*	238	*72.54*	252	*76.81*	261	*79.55*			265	*80.77*		
29,500	*13 381*	215	*65.53*			225	*68.58*			227	*69.19*		
		Rear drum — 20" *(0.51 m)* root diameter smooth — using 1" *(25 mm)* wire rope											
5,000	*2 268*	316	*96.32*	530	*161.54*	415	*126.49*	677	*206.35*	480	*146.30*	766	*233.48*
10,000	*4 536*	310	*94.49*	469	*142.95*	392	*119.48*	556	*169.47*	441	*134.42*	595	*181.36*
15,000	*6 804*	289	*88.09*	393	*119.79*	353	*107.59*	425	*129.54*	386	*117.65*	430	*131.06*
20,000	*9 072*	267	*81.38*	320	*97.54*	310	*94.49*	324	*98.76*	328	*99.97*		
25,000	*11 340*	242	*73.76*	260	*79.25*	267	*81.38*			273	*83.21*		
29,500	*13 381*	219	*66.75*			232	*70.71*			234	*71.32*		

① Maximum permissible load on single part of line using Type "N" wire rope — **29,500 lbs.** *(13 381 kg)* for **1"** *(25 mm)* wire rope. Type "P" wire rope — **1"** *(25 mm)*, single part line — **16,800 lbs.** *(7 620 kg)*. Type "N" wire rope — **1"** *(25 mm)*, two-part line — **59,000 lbs.** *(26 762 kg)*.

② Machine equipped with optional high speed planetary drum drive units.

FMC

HC-268 performance specifications

Wire rope and rope drum data — (continued)

GENERAL INFORMATION ONLY

Load hoisting performance — line speeds are maximum for full throttle operation (2,000 r.p.m. full load speed) with Cummins NT855-C310 diesel engine equipped with Twin Disc Type 4 torque converter.

Single line load ①		Front drum — 20" *(0.51 m)* root diameter smooth — using 1" *(25 mm)* wire rope											
		Line speed											
		First layer rope				Fourth layer rope				Sixth layer rope			
		Standard		High speed ②		Standard		High speed ②		Standard		High speed ②	
Pounds	*kilograms*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*
5,000	*2 268*	312	*95.10*	524	*159.72*	400	*121.92*	652	*198.73*	458	*139.60*	730	*222.50*
10,000	*4 536*	305	*92.96*	459	*139.90*	377	*114.91*	533	*162.46*	420	*128.02*	566	*172.52*
15,000	*6 804*	284	*86.56*	379	*115.52*	339	*103.33*	394	*120.09*	368	*112.17*	394	*120.09*
20,000	*9 072*	260	*79.25*	295	*89.92*	297	*90.53*			308	*93.88*		
25,000	*11 340*	235	*71.63*			249	*75.90*			251	*76.50*		
29,500	*13 381*	209	*63.70*			213	*64.92*			213	*64.92*		
Rear drum — 20" *(0.51 m)* root diameter smooth — using 1" *(25 mm)* wire rope													
5,000	*2 268*	313	*95.40*	525	*160.02*	400	*121.92*	655	*199.64*	458	*139.60*	734	*223.72*
10,000	*4 536*	306	*93.27*	463	*141.12*	379	*115.51*	541	*164.90*	423	*128.93*	578	*176.17*
15,000	*6 804*	286	*87.17*	388	*118.26*	343	*104.55*	405	*123.44*	373	*113.69*	405	*123.44*
20,000	*9 072*	263	*80.16*	304	*92.66*	302	*92.05*	303	*92.35*	316	*96.32*		
25,000	*11 340*	239	*72.85*	243	*74.07*	256	*78.03*			259	*78.94*		
29,500	*13 381*	214	*65.23*			219	*66.75*			220	*67.06*		

① Maximum permissible load on single part of line using Type "N" wire rope — **29,500 lbs.** *(13 381 kg)* for **1"** *(25 mm)* wire rope. Type "P" wire rope — **1"** *(25 mm)*, single part line — **16,800 lbs.** *(7 620 kg)*. Type "N" wire rope — **1"** *(25 mm)*, two-part line — **59,000 lbs.** *(26 762 kg)*.
② Machine equipped with optional high speed planetary drum drive units.

Load hoisting performance — line speeds are maximum for full throttle operation (2,000 r.p.m. full load speed) with Cummins NT855-C310 diesel engine equipped with Twin Disc Type 4 torque converter.

Single line load ①		Front drum — 20" *(0.51 m)* root diameter smooth — using 1⅛" *(29 mm)* wire rope											
		Line speed											
		First layer rope				Third layer rope				Fifth layer rope			
		Standard		High speed ②		Standard		High speed ②		Standard		High speed ②	
Pounds	*kilograms*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*	F.p.m.	*m/min*
5,000	*2 268*	314	*95.71*	527	*160.62*	380	*115.82*	624	*190.19*	445	*135.64*	713	*217.32*
10,000	*4 536*	307	*93.57*	461	*140.51*	361	*110.03*	518	*157.88*	411	*125.27*	561	*170.99*
15,000	*6 804*	285	*86.87*	380	*115.82*	328	*99.97*	392	*119.48*	362	*110.34*	393	*119.78*
20,000	*9 072*	261	*79.55*	295	*89.91*	290	*88.39*			306	*93.27*		
25,000	*11 340*	235	*71.63*			247	*75.29*			251	*76.50*		
30,000	*13 608*	206	*62.79*			209	*63.70*			209	*63.70*		
35,000	*15 876*	179	*54.56*			180	*54.86*			172	*52.43*		
37,100	*16 829*	169	*51.51*			168	*51.21*			162	*49.38*		
Rear drum — 20" *(0.51 m)* root diameter smooth — using 1⅛" *(29 mm)* wire rope													
5,000	*2 268*	314	*95.71*	528	*160.93*	380	*115.82*	627	*191.10*	445	*135.64*	717	*218.54*
10,000	*4 536*	308	*93.88*	465	*141.73*	363	*110.64*	525	*160.02*	414	*126.19*	571	*174.04*
15,000	*6 804*	287	*87.48*	388	*118.25*	331	*100.89*	402	*122.52*	367	*111.86*	404	*123.13*
20,000	*9 072*	264	*80.47*	304	*92.65*	295	*89.92*	305	*92.96*	314	*95.71*		
25,000	*11 340*	239	*72.85*	243	*74.06*	254	*77.42*			259	*78.94*		
30,000	*13 608*	211	*64.31*			216	*65.84*			216	*65.84*		
35,000	*15 876*	185	*56.39*			185	*56.39*			180	*54.86*		
37,100	*16 829*	174	*53.04*			174	*53.04*			167	*50.90*		

① Maximum permissible load on single part of line using Type "N" wire rope — **37,100 lbs.** *(16 829 kg)* for **1⅛"** *(29 mm)* wire rope.
② Machine equipped with optional high speed planetary drum drive units.

We are constantly improving our products and therefore reserve the right to change designs and specifications.

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