





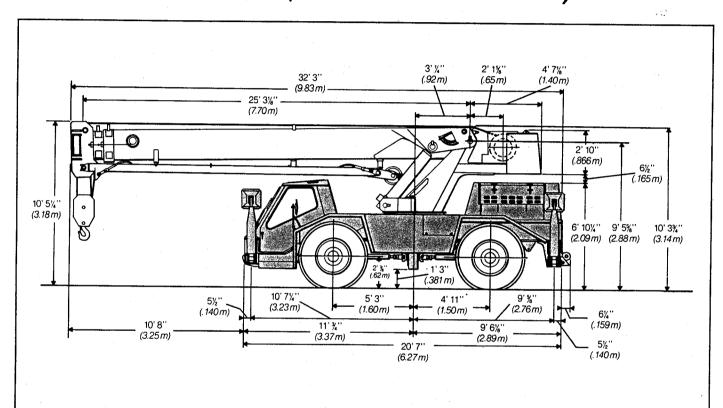
General Specifications

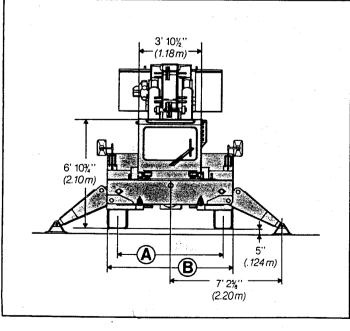
Link-Belt®

GENERAL INFORMATION ONLY

Hydraulic Cab Down Crane

HCD-80B 15 tons (13.64 metric tons)





General dimensions	Feet	meters
Turning radius (4-wheel steer)	15' 9''	4.80
Tailswing of counterweight	8' 10''	2.69

Dimensions affected by tires

Tires	14.0 x 24	4 (20-PR)	17.5 x 25 (20-PR)			
	Feet meters		Feet	meters		
Α	6' 91/4"	2.06	6' 101/4"	2.08		
В	8'	2.43	8' 3"	2.52		



L341 6833 (Supersedes L260)



Jpperstructure ()



Boom

5' - 60' (7.62 - 18.29 m) 3-section ower boom. Boom telescope secons are supported by wear shoes oth vertically and horizontally to preent metal to metal contact.

coom head — Two 9-5/8" (245 mm) oot diameter sheaves standard. hree head sheaves are available to andle up to 7 parts of wire rope. Two asily removable wire rope guards and rope dead end lugs for 2-4-6 parts f line. Optional 12-7/8" (326 mm) root iameter head sheaves meet 25:1 atio European Safety Code with 14 mm wire rope.

oom elevation — Two hydraulic ylinders with holding valves. Hand ontrol lever for controlling boom levation from -1° to 75°. Mechanical oom the indicator standard.

ptional; 20' 0" (6.10 m) stowable ne-piece lattice type.

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optional; 20' 0" (6.10 m) stowable r-frame. Attaches to boom head nly. Can be offset 0°, 15°, and 0°.



Swing

Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 3.0 rpm.

Swing brake — Automatically applied and released, disc brake coupled to the speed reducer.

Swing lock — Standard two-position pin-type (over front and rear) operated manually.

Counterweight — Bolted to upperstructure frame.



Hydraulic System

Main pump — Double gear-type pump. Powered by carrier engine through hot-shift pump disconnect which can be engaged/disengaged while engine is running.

Swing/steering pump — Tandem pump. Powered by carrier engine through a straight mechanical drive.

Reservoir — 93 gallon (352 L) capacity.

Filtration — Two 10 micron filters, located outside of hydraulic reservoir for easy replacement.

Control valves — 4 separate control valves allow simultaneous operation of all crane functions.

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Load hoist system

Standard: Main winch with two speed and automatic brake; power up/power down mode of operation. Bidirectional radial piston hydraulic motor, driven through a spur gear reduction unit for positive operator control under all load conditions.

Line pulls and speeds — Maximum permissible line pull 7,978 lbs. (3618 kg.) and maximum line speed of 420 fpm (128 m/min.) on standard 13-9/16" (345 mm) root diameter grooved drum.

Standard upperstructure equipment Boom length and boom angle indicator, two-speed main winch, grooved drum, 15-ton hook block, anti-two block with function kickout and audible alarm.





Chassis







Type

8' (2.43 m) wide, 122" (3099 mm) wheelbase.

4x4x4 — (4 wheel steer, 4 wheel drive). Standard; crab steering allows steering to either side simultaneously.

Frame — All welded box section main frame with integral front and rear outrigger boxes.



Cab and Controls

Environmental cab — All windows fixed, safety glass used for front window. Slide-by-door opens to 2'2" (.66 mm) width. 4-way adjustable operators seat. Cab door is key locked. Control levers for swing, boom telescope, winch and boom hoist, and outriggers.

Cab instrumentation — Dash mounted gauges for engine oil pressure, hydraulic oil temperature, converter temperature, fuel and voltmeter.



Outriggers

Four hydraulic cantilever outriggers. Outrigger cylinders individually controlled from cab. Extend to 14' 5-1/4" (4.4 m). Equipped with 18" (.46 m) square steel floats. Sight level bubble located in cab.



Axles

Front - Standard; heavy duty planetary drive/steer type.

Rear — Standard; heavy duty driving/steer type.

Suspension

Front axle - Bolted to frame.

Rear axle - Spring rear suspension provides 4 wheel traction on rough terrain. Equipped with manual hydraulic rear oscillation lockout for picking on tires.

Tires

Front and rear — Standard 14.0 x 24 (20 ply).

Optional — 17.5 x 25 (20 ply).



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Brakes

Service — Air over hydraulic brakes on all 4 wheels. 17" x 4" (0.43 m x 0.10 m) drum brakes on each wheel.

Parking — Spring applied, air released; cab controlled, mounted on front axle.

Steering — Hydraulic two wheel, four wheel, and "crab" steering controlled from operators cab.

Transmission - Power shift transmission, 6 speeds forward and 6 reverse.

Miscellaneous standard equipment — Hook block tie down, pintie hook-rear, fenders, 12-volt start, tool storage box, back-up alarm, horn, cab heater, defroster, wipers, rear view mirrors -both side, travel lights, lifting lugs, fire extinguisher.

Optional chassis equipment — Engine cover side doors, front winch (hydraulic).

Travel Speeds and Gradeability

Engine	Tires	res Maximum Speed		Gradeability at stall	Maximum tractive effort at stall		Gradebility at 1.0 m.p.h. (1.61 km/h)	Maximum tractive effort at 1.0 m.p.h. (1.61 km/h)	
		m.p.h.	Km/h		pounds	kilograms		pounds	kilograms
GM	14.0x24	25.6	41.19	79%	28,650	12 892	45%	19,280	8 676
3-53T	17.5x25	25.5	41.03	-75%	28,370	12 766	44%	19,180	8 631
ISUZU	14.0x24	29.1	46.82	82%	29,340	13 203	44%	19,050	8 572
6BD1*	17.5x25	28.9	46.50	78%	29,060	13 077	43%	18,960	8 532

*Optional equipment

ENGINE	GM3-53T	ISUZU 6BD1*
Cylinders - cycle Bore Stroke Displacement Maximum Brake h.p. Peak Torque Electric System Fuel Cap. Alternator Crankcase Cap. Air Compressor	3 - 2 3-7/8" (98.43 mm) 4-1/2" (114.30 mm) 159 cu. in. (2 606 cm³) 131@ 2500 rpm 312 ft. lbs. (427.14 J) 12 v neg. ground 53 gallons (200.60 L) 42 amp 3.5 gallons (13.2 L) 14.5 cfm. (.41 m³/m)	6 - 4 4 in. (101.60 mm) 4-5/8" (117.48 mm) 353 cu. in. (5785 cm³) 132 @ 2800 rpm 268 ft. lbs. (363.41 J) 12 v neg. ground 53 gallons (200.60 L) 50 amp 4.5 gallons (17.0 L) 7.6 cfm (.22 m³/m)











Axle loads 3-section boom

nachine with standard 25'-60' (7.62-	G. V. W.		Upper Facing Front				Upper facing rear			
7) 3-section boom, enclosed cab, 385'			Front axle		Rear axle		Front axle		Rear axie	
with GM 3-53T engine, 14.0x24 tires, counter- weight, fenders, and hook block.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.
-,	44,887	20 357	22,233	10 083	22,654	10 274	17,794	8 070	27,093	12 287
Engine cover side doors 20' lattice fly 20' A-frame jib 17.5 x 25 tires	+ 79 + 507 + 736 + 988	+ 36 + 230 + 334 + 448	- 13 + 915 + 1142 + 463	- 6 . +415 +518 +210	+ 93 - 408 - 428 + 525	+ 42 - 185 - 194 + 238	- 13 - 426 - 452 + 463	- 6 - 193 - 205 + 210	+ 93 + 933 + 1188 + 525	+ 42 + 423 + 539 + 238

¹ Adjust gross vehicle weight and axle loading according to components weight.

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

FMC Corporation Construction Equipment Group Lexington, Kentucky 40512

Link-Belte cranes/excavators manufactured in: Cedar Rapids, IowaeLexington & Bowling Green, Ky.eWoodstock, Ontario, CanadaeMilan, ItalyeQueretaro, Mexico & Nagoya, Japan (under license).

