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Lifting Capacities GENERAL INFORMATION ONLY

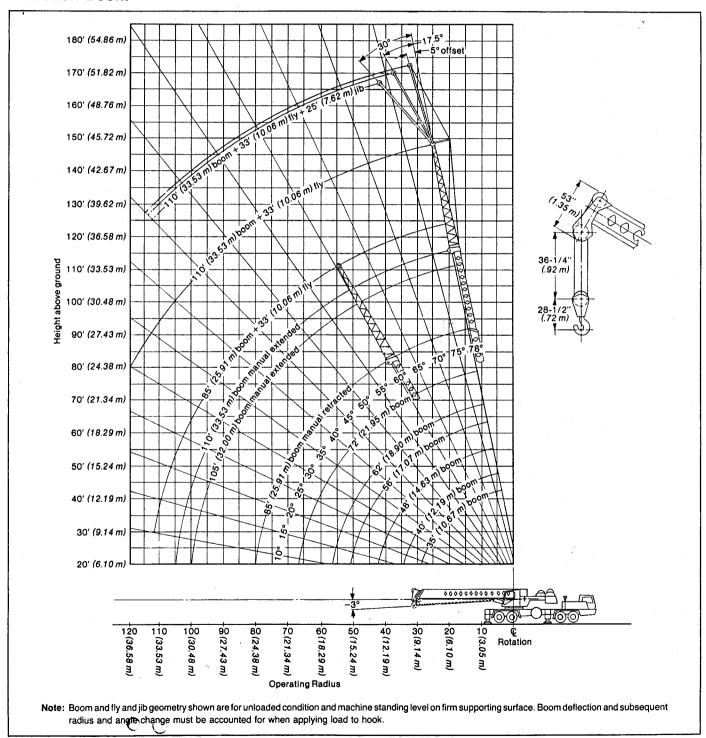
PCSA Class 12-187

Link-Belt®

Hydraulic Crane

HTC-1040 40-ton (36.29 metric ton)

4-Section Boom





CAUTION: This material is supplied for reference only. Operator MUST refer to in-cab capacity plate to determine allowable machine lifting capacities and operating procedures.



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GENERAL INFORMATION ONLY

HTC-1040 Lifting Capacities

10' 1-1/2" (3.09 m) carrier 110' (10.67 m-33.53 m) 4-section boom

GENERAL INFORMATION ONLY

Refer to Operating Instructions page 4

		C	apaci	ties C	n Ou	trigge	rs Ma	nual	Section	n Re	tracte	d			85′ (2	85' (25.91 m) boom plus	
Load radius	35 ′ (10.67 m)		40' (12.19 m)		444					(8.90 m) 72° (2			85' (25	85 ′ (25.91 m)		33' (10.06 m) fly	
	Side	Rear	Side	Rear	Side	Rear	Side	Rear	Side	Rear	Side	Rear	Side	Rear	Boom angle	Side	Rear
10′ 3.05 m	80,000 <i>36 288</i>	80,000 <i>36 288</i>	72,100 <i>3270</i> 5	72,100 32,705	70,800 32115	70,800 32115	68,100 30,890	68,100 30,890									
12' 3.66 m	80,000 <i>36 288</i>	80,000 <i>36 288</i>	72,100 <i>32 705</i>	72,100 32705	70,800 32115	70,800 32115	68,100 30,890	68.100 30.890	64.500 29.257	64,500 29,257					S	e Note	1
15' 4.57 m	69,900, <i>31 707</i>	69,900 <i>31 707</i>	68,700 <i>31 162</i>	68,700 <i>31 162</i>	66,400 30119	66,400 30119	64,200 29 121	64.200 29 121	56,300 25 538	56,300 25 538	45,000 20412	45,000 20412					
20' 6.10 m	50,000 22 680	50,000 <i>22680</i>	50,000 <i>22,680</i>	50,000 <i>22 680</i>	50,000 22 680	50,000 22 680	50,000 22 680	50.000 22.680	46,200 20 956	46,200 20,956	40,000 18 144	40,000 18 144	32,500 14,742	32,500 14 742			T
25' 7.62 m	40,000 18 144	40,000 18 144	40,000 18 144	40,000 18 144	40,000 18 144	40,000 18 144	40,000 18 144	40,000 18 144	38,000 17237	38,000 17237	35.000 15378	35,000 15 <i>376</i>	27,000 12247	27,000 12247	77°	18,500 <i>8392</i>	18,500 8392
30' 9.14 m			30,500 13 835	31,200 14 152	30,000 13 608	31,200 14 152	30,000 13 608	31.200 14 152	30,000 13 608	31,200 14 152	30.000 13.608	30,000 13 <i>608</i>	22,700 10 <i>2</i> 97	22,700 10297	75°	17,500 7938	17,500 7938
35' 10.67 m 40'					24,000 10886	24,000 10886	24,000 10886	24,000 10,886	24,000 10,886	24,000 10 <i>886</i>	24,000 10,886	24,000 10386	19,400 <i>8 800</i>	19,400 <i>8 800</i>	72°	15,500 7031	15,500 7031
12.19 m					18,700 <i>8 482</i>	18,900 <i>8573</i>	18,700 <i>8 482</i>	18.900 8.573	18,700 <i>8 482</i>	18,900 <i>8573</i>	18,100 8,210	18,900 <i>\$573</i>	16,800 7 <i>620</i>	16,800 7 <i>620</i>	70°	13,900 6305	13,900 <i>6305</i>
45' 13.72 m							14,500 6577	15.400 6.985	14,500 <i>6577</i>	15,400 <i>6985</i>	14.200	15.400 6985	14,200 6440	14,700 6668	67°	12,400 5 <i>625</i>	12,400 5 <i>625</i>
50′ 15.24 m							11,400 5170	12.600 5715	11,400 5170	12,600 5 <i>715</i>	11,400 5170	12,600 5715	11,200 5 <i>080</i>	12,600 5715	64°	10,900 4944	10,900 4944
55' 16.76 m									9,000 4 <i>082</i>	10,500 <i>4 763</i>	9,000 4 <i>0</i> 82	10,500 4763	9,000 4 <i>081</i>	10,500 4763	62°	9,600 <i>4355</i>	9,600 4355
60' 18.29 m											7,300 3311	8,800 3392	7,300 3311	8,800 3992	59°	8,600 3 <i>901</i>	8,600 <i>3,901</i>
65' 19.81 m											5,800 2630	7,200 3,266	5,800 2 <i>630</i>	7,200 3266	56°	7,500 3 402	7,700 3493
70' 21.34 m													4,600 2086	6,000 2722	23,	6,300 2857	6,900 3 130
													2,700 1 <i>22</i> 4	3,900 1 769	47	4,500 2131	5,600 2540
7.43 m															39	3,100 1 405	4,200 1 <i>905</i>
100′ 0.48 m															30°	2,100 <i>952</i>	3,100 1406

Note: For 360° capacities, use the over side capacities with the bumper outrigger set in proper working position.

① Capacities for boom plus fly can be extended or retracted, but are based on boom angle army. See Operating Instructions Number 16

· ··					Main Bo	om Capa	icities① On	Tires			
Load Max radius boom length		Creep·② over rear only		1.9 m.p.h. (1.61 km/hr)		Crane capacities on tires depend on tire capacity, condition of tires, and tire pressures.					
Feet	meters	Feet	meters	Pounds	kilograms	Pounds	kilograms				
10 12	3.05 3.66	35 35	10.67 10.67	37,200 34,000	16874	21.45)	11 068 10 070	Tires	Ply rating	Creep ② Inflation	1.0 m.p.h. 1.61 km/hr) Inflation
15	4.57	35	10.67	30,000	15 442 13 608	2220	8 754	11.0x200	14	100 p.s.i. (6.90 Bars)	100 p.s.i. (6.90 Bars)
20 25	6.10	35	10.67	19,700	8 <i>936</i>	-5500	7031	12.0 x 20.0	14	100 p.s.i. (6.90 Bars)	90 p.s.i. (6.21 Bars)
30	7.62 9.14	35 40	10.67	13,900	6 305	72.750	5 761	15.0 x 22.5	14	95 p.s.i. <i>(6.55 Bars)</i> 100 p.s.i. <i>(6.90 Bars)</i>	85 p.s.i. (5.86 Bars) 90 p.s.i. (6.21 Bars)
35 40	10.67 12.19	40	12.19 12.19	10,000 7,400	4 <i>536</i> 3 <i>357</i>			16.5 x 22.5 18.0x22.5	16	95 p.s.i. (6.55 Bars)	85 p.s.i. (5.86 Bars)
45	13.72	48 56	14.63 17.07	5,600 4,100	2 540 1 860						
50 55	15.24	56	17.07	3,000	1361						
55	16.76	62	18.90	2,200	998	Į l					

See Operating Instruction; Set-Up Number 4
 See Operating Instruction; Set-Up Number 3

Wire rope size and type

Wire rope application	Size and type used	Wire rope description
Majowinch A Jib stay pendants ①	3/4" (19 mm) diameter, Type 74.	Type "N" - 6 x 25 (6 x 19 class) filler wire, extra improved plow steel, preformed, independent wire rope core, right lay, regular lay.

① Jib frontstay pendants - 24' 3-5/8" (7.45 m)

② Jib backstay pendants - 32' 3/4" (9.77 m)







HTC-1040 Lifting Capacities

GENERAL INFORMATION ONLY

Refer to Operating Instructions page 4

10' 1-1/2" (3.09 m) carrier 35'-110' (10.67 m-33.53 m) 4-section boom

	Capa	acities (on Outri	ggers	Manua	I Sectio	n Exte	ended	
Load	105′ (32.00 my®			110' (33.53 m)			110' (33.53 m) boom plus 33' (10.06 m) fly		
radius	Boom	Side	Rear	Boom angle	Side	Rear	Boom angle	Side	Rea
		See N	Note ①		See I	Note ①			
₁ 25' 7.62 m	76°	20,200 <i>9 163</i>	20,200 <i>9 163</i>	77°	19,000 8618	19,000 8618		See N	Note ②
30′ 9.14 m	73°	20,200 - 9 163	20,200 <i>9 163</i>	74°	18,500 <i>8392</i>	18,500 <i>8392</i>			
35' 10.67 m	70°	18,000 <i>8 165</i>	18,000 <i>8 165</i>	72°	17,300 7 <i>847</i>	17,300 7847	76°	9,400 4,264	9,400 4,264
40′ 12.19 m	68°	15,500 <i>7031</i>	15,500 7031	69°	14,800 <i>6713</i>	14,800 6713	74'	9,400 <i>4264</i>	9,400 4,264
45' 13.72 m	65°	14,000 <i>6350</i>	14,000 <i>6350</i>	66°	13,300 6033	13,300 6033	72°	9,000 4 <i>082</i>	9,000
50′ 15.24 m	62°	12,500 5 <i>670</i>	12,500 5 <i>670</i>	63°	11,600 5262	11,600 5262	70°	8,400 3810	8,400 3810
5 5' 16.76 m	59 3	10,500 <i>4763</i>	10,500 4763	60°	10,200 4 <i>627</i>	10,200 4 <i>627</i>	68°	8,000 3 <i>629</i>	8,000 3,629
60′ 18.29 m	55°	8,700 <i>3946</i>	8,800 3,992	58°	8,600 3 <i>900</i>	9,000 4 <i>082</i>	66°	7,300 3311	7,300 3311
65' 19.81 m	52°	7,300 3 <i>311</i>	7,800 3.538	54	7,200 3 <i>266</i>	8,000 3 <i>629</i>	63°	6,500 2948	6,500 2948
70° 21.34 m	48	6,100 <i>2766</i>	7,000 3175	51'	6,000 2721	7,000 3175	61°	5,700 2586	5,700 2586
80' 24.38 m	40°	4,300 1 <i>950</i>	5,500 2495	43'	4,200 1 <i>904</i>	5,400 2449	56°	4,600 2087	4,600 2087
90′ 27.43 m	30°	2,900 1 <i>315</i>	4,000 1 <i>8</i> 14	34'	2,800 1 <i>269</i>	3,900 1 769	51°	3,600 1 633	3,600 1 633
100′ 30.48 m	12°	1,800 <i>816</i>	2,800 1,270	22,	1,800 <i>816</i>	2,800 1 <i>270</i>	46°	2,600 1 179	2,800 1,270
110′ 33.53 m							39°	1,800 816	2,100 953
120' 36.58 m						-	32°		1,500 680

Note: For 360° capacities, use the over side capacities with the bumper out	rigger set in proper
working position.	ggo. cot ii. propor

- Capacities for boom with manual section extended can be extended or retracted, but are based on boom angle only; See Operating Instructions Number 15.
 Capacities for boom plus fly can be extended or retracted, but are based on boom angle only. See Operating Instructions Number 16.
- Capacities are shown for 4-section boom with manual extended and with boom retracted to 105' (32.00 m)

Jib Capacities					
33' (10	.06 m) fly p	lus 25 ′ <i>(7.6.</i>	2 m) jib		
Boom		Jib Offset			
angle	5 °	17.5°	30		
78°	5,100	5,100	4,200		
	<i>2313</i>	2313	1 <i>905</i>		
75°	5,100	5,100	4,000		
	2313	2313	1 <i>814</i>		
703	5,100	4,900	3,600		
	2313	2223	1 633		
65'	4,500	4,100	3,400		
	2041	1 <i>860</i>	1 <i>542</i>		
60°	3,500	3,100	2,600		
	<i>1 587</i>	1 406	1 179		
55°	2,400	2,300	1,900		
	1 <i>088</i>	1 <i>043</i>	<i>862</i>		
50°	1,700	1,500	1,200		
	<i>770</i>	<i>680</i>	<i>544</i>		

Drum wire rope capacities

Wire	Main and auxiliary drum 17" (0.43 m) root diameter smooth and grooved lagging 3/4" (19 mm) wire rope						
rope	Roper	er layer	Total w	/ire rope			
layer	Feet	meters	Feet	meters			
1	97	29.57	97	29.57			
2	111	33.83	208	63.40			
3	114	34.75	322	98.15			
4	122	37.19	444	135.33			
5	130	39.62	574	174.96			
6	139	42.37	713	217.32			
7①	140	42.67	853	259.99			

1) For storage purposes only - not a working layer

Line Speeds and Pulls

		Main or auxiliary winch -17" (0.43 m) drum						
Layer	Speed	LineS	peeds	Available Line Pulls				
		F.p.m.	m/min.	Lbs.	kgs.			
First	Low	172	52.43	15,870	7 199			
	High	364	110.95	7,520	3 4 1 1			
Second	Low	187	57.00	14,630	6 636			
	High	394	120.09	6,930	3 143			
Third	Low	201	61.26	13,580	6 160			
	High	425	129.54	6,430	2917			
Fourth	Low	216	65.84	12,660	5743			
	High	456	138.99	6,000	2722			
Fifth	Low	230	70.10	11,860	5380			
	High	487	148.44	5,620	2549			
Sixth	Low	245	74.68	11,160	5 062			
	High	517	157.58	5,280	2 395			
Seventh	Low	260	79.25	10,530	4 776			
	High	548	167.03	4,990	2 264			

HTC-1040 hydraulic circuit pressure settings							
Circuit	Function	Pressure					
Main	Boom hoist	2,900 p.s.i. (200.0 Bars)					
Widni	Wire rope hoist	2,750 p.s.i. (189.66 Bars)					
	Swing	1,500 p.s.i. (103.45 Bars) at port relief					
Secondary	Outermid telescope	2,500 p.s.i. (172.41 Bars)					
Secondary	Innermid telescope	2,500 p.s.i. (172.41 Bars)					
	Outriggers	2,500 p.s.i. (172.41 Bars)					
Charge Pump	Winch brake and clutch	1,800 p.s.i. (124.14 Bars)					





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GENERAL INFORMATION ONLY

Warning and Operating Instructions

HTC-1040

Read and understand these operating instructions and the chart reques before operating crane. Operation which does not follow e instructions may result in an accident.

neral:

- Rated lifting capacities in pounds as shown on lift chart pertain to this machine as originally manufactured and normally equipped by FMC Corporation, Construction Equipment Group. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
- Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operator's parts and safety manuals supplied with this machine. If these manuals are missing, order replacements through the distributor.
- The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.
- The maximum allowable lifting capacities are based on machine standing level on firm supporting surface.

Set-Up:

- The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger
- When making lifts on outriggers, outrigger beams must be fully extended with tires free of supporting surface.
- Crane Capacities on tires depend on tire capacity, condition of tires, and tire pressure. On-tire picks require lifting from main boom head only on a smooth and level surface. Boom sections must be extended equally. Two conditions are available for pick and carry operations. The first condition is creep. Creep is motion for less than 200' (60.9 m) in a 30 minute period and not exceeding 1 m.p.h. (1.61 km/hr). The second condition is 1 m.p.h. (1.61 km/hr). This operation is restricted to 1 m.p.h. (1.61 km/hr) maximum speed. For each condition, creep and 1 m.p.h. (1.61 km/hr), the boom must be centered over rear with swinglock engaged and the load must be restrained from swinging. Lifts with manual extended, fly or fly-jib combination erected are prohibited on tires

When making lifts on rubber, tires must be inflated to the recommended pressure.

For machine equipped with front bumper outrigger, the front bumper outrigger must be set in proper working position before swinging boom lengths greater than 35'

Outriggers must be set before swinging boom to over side position as defined on working area plate No. 36P0181

- When installing or removing counterweight, use fully retracted boom only. Do not swing counterweight beyond a 25' (7.62 m) radius. Machine must be on outriggers
- For required parts of line see wire rope strength plate.

Operation:

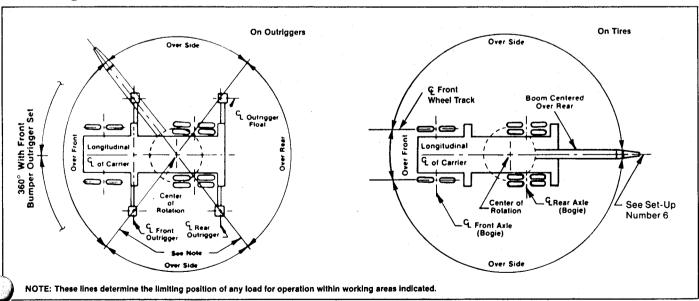
- Rated lifting capacities at rated radius shall not be exceeded. Do not tip machine to determine allowable load. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated lifting capacity. For clamshell bucket operation, weight of bucket and bucket clamshell bucket operation, weight of bucket and bucket content is restricted to a maximum weight of 7,000 pounds (3175 kg) or 80% of rated lifting capacity which ever is less. For magnet operation weight of magnet and load is restricted to a maximum weight of 7,000 pounds (3175 kg) or 80% of rated lifting capacity which ever is less. For clamshell and magnet operation maximum boom length is restricted to 56 feet (17.07 m) and the boom angle is restricted to 56 feet (17.07 m) and the boom angle is restricted to a minimum of 35°. Manual extended, fly or fly-jib combinations are prohibited for both clam and magnet operation.
- The crane capacities shown on outriggers do not exceed 85% of the tipping loads and crane capacities shown on tires do not exceed 75% of the tipping loads as determined by SAE crane stability test code J-765a.
- The crane capacities above the bold lines are based on structural strength or hydraulic limitations
- Rated lifting capacities include the weight of hook block slings, bucket, magnet and auxiliary lifting devices and their weights must be subtracted from the listed rated load to obtain the net load to be lifted. The following deductions from rated main boom capacities must be made if machine is equipped with the following: Picking from main boom with:

 - Picking from main boom with:

 a. Auxiliary head 200 lbs. (91 kg)
 b. Jib stowed 600 lbs. (272 kg)
 c. Fly stowed 700 lbs. (318 kg)
 d. Fly erected 1,700 lbs. (771 kg)
 e. Fly & jib stowed 1,300 lbs. (590 kg)
 f. Fly & jib erected 4,300 lbs. (1951 kg)
 - Picking from 33' (10.66 m) fly with: Jib erected 2,000 lbs. (907 kg)
- Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
- Rated lifting capacities are for lift crane service only.
- Do not operate at radii or boom lengths where capacities are not listed. At these positions, the machine can overturn without any load on the hook.
- The maximum loads which can be telescoped are no definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the load rating chart.

- When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- The user shall operate at reduced ratings to allow for 10. adverse job conditions, such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electrical wires, etc. Side load on boom, fly or jib is extremely dangerous.
- When making lifts with auxiliary head machinery, the effective length of the boom increases by 2' (.61 m). Effective length of boom is length shown on boom length indicator plus 2' (.61 m).
- Power sections must be extended equally
- The least stable rated working area on outriggers is over 13.
- Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required (see wire rope streng plate) is considered excessive and must be accounted for. Use working range plate to estimate the extra feet of rope then deduct 1 lb. (.45 kg) for each foot of wire rope before attempting to lift a load.
- For boom lengths less than 105' (32.00 m) or between 105' (32.00 m) and 110' (33.53 m) with manual extended, the rated loads are determined by boom angle only in the respective column. For angles not shown, use next lower boom angle to determine allowable capacity
- For boom lengths plus fly less than 118' (35.97 m) with manual retracted or less than 143' (43.59 m) with manual extended the rated loads are determined by boom angle only in the respective column. For angles not shown, use next lower boom angle to determine allowable capacity
- With front bumper outrigger set, use over side capacity values for 360° working area.
- Values to 300 withing all my boom with 33' (10.06 m) fly below 16'. Do not lower 110' (33.53 m) boom with 33' (10.06 m) fly below 32°. Failure to follow note 18 will result
- The 25' (7.62 m) jib capacities are based on main boom angle regardless of main boom length. For angles not shown use next lower boom angle to determine allowable canacity. Canacity values can be used to operate over rear or over side. Warning: do not lower 25' (7.62 m) jib in working position below 50° unless boom is fully
- The 35' (10.67 m) boom length capacities are based on boom fully retracted. If not fully retracted, do not exceed ratings for the 40' (12.19 m) boom length

Working Areas HTC-1040



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



