

TECHNICAL TIPS

CRANES

Type of Tip:

HC80 46" HI Boom Rope Charts

Necessary Tools:

None Required

Applicable Models:

HC80

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Basic Safety Rules



Danger

Failure to follow the instructions and safety rules in the Operator's Manual and Service Manual appropriate to your machine will result in death or serious injury. Many of the risks identified in the operator's manual are also safety risks when maintenance and repair procedures are performed.

Do not perform maintenance unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
 - The manufacturer's instructions and safety rules
 - Employer safety rules and workplace regulations
 - Applicable government regulations

- You have the appropriate tools, lifting equipment and a suitable location.

The information contained in this technical tip is a supplement to the service manual. Consult the appropriate service manual for your machine for safety rules and risks.

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HC80 46" HI Boom Main & Auxiliary Rope Charts

TOTAL OF BOOM & JIB LENGTH	ROPE LENGTHS AND CORRESPONDING PARTS OF LINE (FEET)							
	1	2	3	4	5	6	7	8
40'	93'	137'	184'	227'	273'	317'	362'	402'
45'	105'	152'	204'	252'	303'	353'	402'	447'
50'	115'	167'	224'	277'	333'	387'	442'	492'
55'	125'	182'	244'	302'	363'	422'	482'	538'
60'	135'	197'	264'	327'	393'	457'	522'	582'
65'	145'	212'	284'	352'	423'	492'	562'	627'
70'	155'	227'	304'	377'	453'	527'	602'	672'
75'	165'	242'	324'	402'	483'	562'	642'	717'
80'	174'	257'	344'	427'	514'	597'	682'	762'
85'	184'	272'	364'	452'	544'	632'	722'	807'
90'	194'	286'	383'	476'	572'	666'	762'	852'
95'	204'	301'	403'	501'	602'	701'	802'	
100'	214'	315'	422'	525'	630'	735'		
110'	234'	345'	462'	574'	690'	803'		
120'	253'	374'	501'	623'	749'			
130'	273'	404'	540'	672'	807'			
140'	293'	434'	580'	721'				
150'	313'	463'	619'					
160'	333'	492'	658'					

Main & Auxiliary Drum Spooling Capacity
 588' Drum Working Capacity - 6 Layers
 860' Drum Storage Capacity - 8 Layers

MAIN LOAD LINE (8 PARTS MAX.)

7/8" EIPS, RRL, IWRC, 79,600 LBS. Min. Brk. Str.

JIB WHIP LINE (1 PART MAX.)

7/8" EIPS, RRL, IWRC, 79,600 LBS. Min. Brk. Str.

The rope lengths calculated for load lines allow working at ground level with the boom at its minimum radius. For rope length adjustments when working at a different level, multiply the parts of line used times the difference in level from the ground. [8 parts of line x 10' (3.05m) below ground level = 80' (24.38m) extra added.] Add this adjustment for below ground level work, or subtract it for above ground level work.