



Daniel Smith Industries Ltd
 315 Flaxton Road, Rangiora, 7400
 Canterbury, New Zealand.
 Phone: 0064 (0) 3 313 9902
 Fax: 0064 (0) 3 313 9904
 Mobile: 0064 (0) 21 33 66 23
 Email: daniel@danielsmith.co.nz

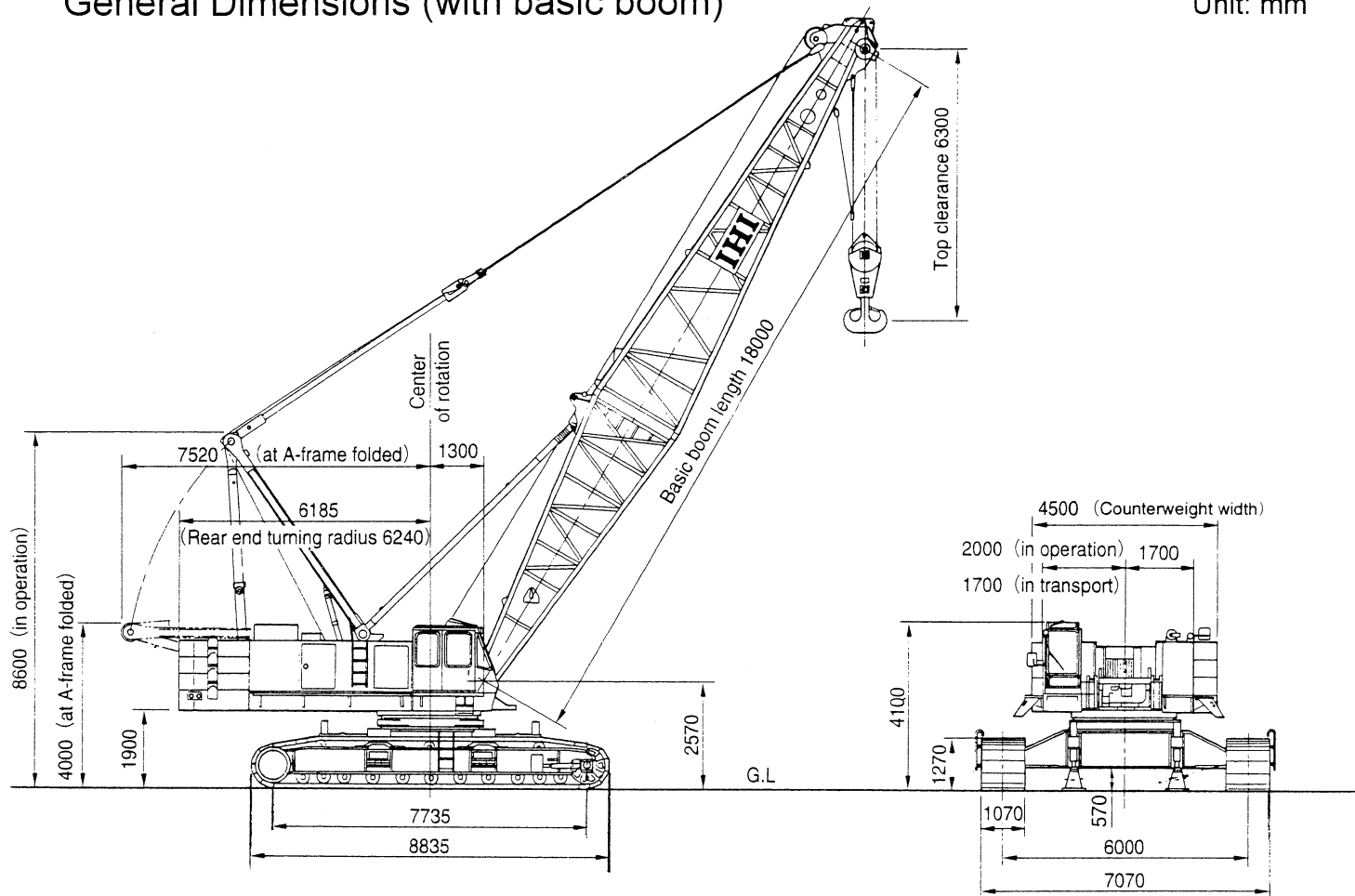
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CCH 1500-2 150 Ton Crawler

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General Dimensions (with basic boom)

Unit: mm



Specifications

Max. lifting capacity × working radius		150 metric tons × 5.0 m	
Max. boom length w/jib boom		103 m (72 m main + 31m jib)	
Rope speed	Main drum hoist/lowering	* Hi : 100/60 m/min * Lo : 50/30 m/min	
	Aux. drum hoist/lowering	* Hi : 100/60 m/min * Lo : 50/30 m/min	
	Boom drum hoist/lowering	* 28 × 2 m/min	
Part line	150 ton hook block	16 part line	
	15 ton hook block	2 part line	
	11 ton hook block	2 part line	
	Boom drum hoist/lowering	9 × 2 part line	
Counterweight		Standard spec.	Additional spec.
		56 ton	69ton+16ton (carbody wt.)
Total operating weight (with 18 m boom & 150 ton hook block)		152.6 ton	181.6 ton
Average ground bearing pressure		0.86 kg/cm ²	1.02 kg/cm ²

The rope speed will be changed depending on the load.



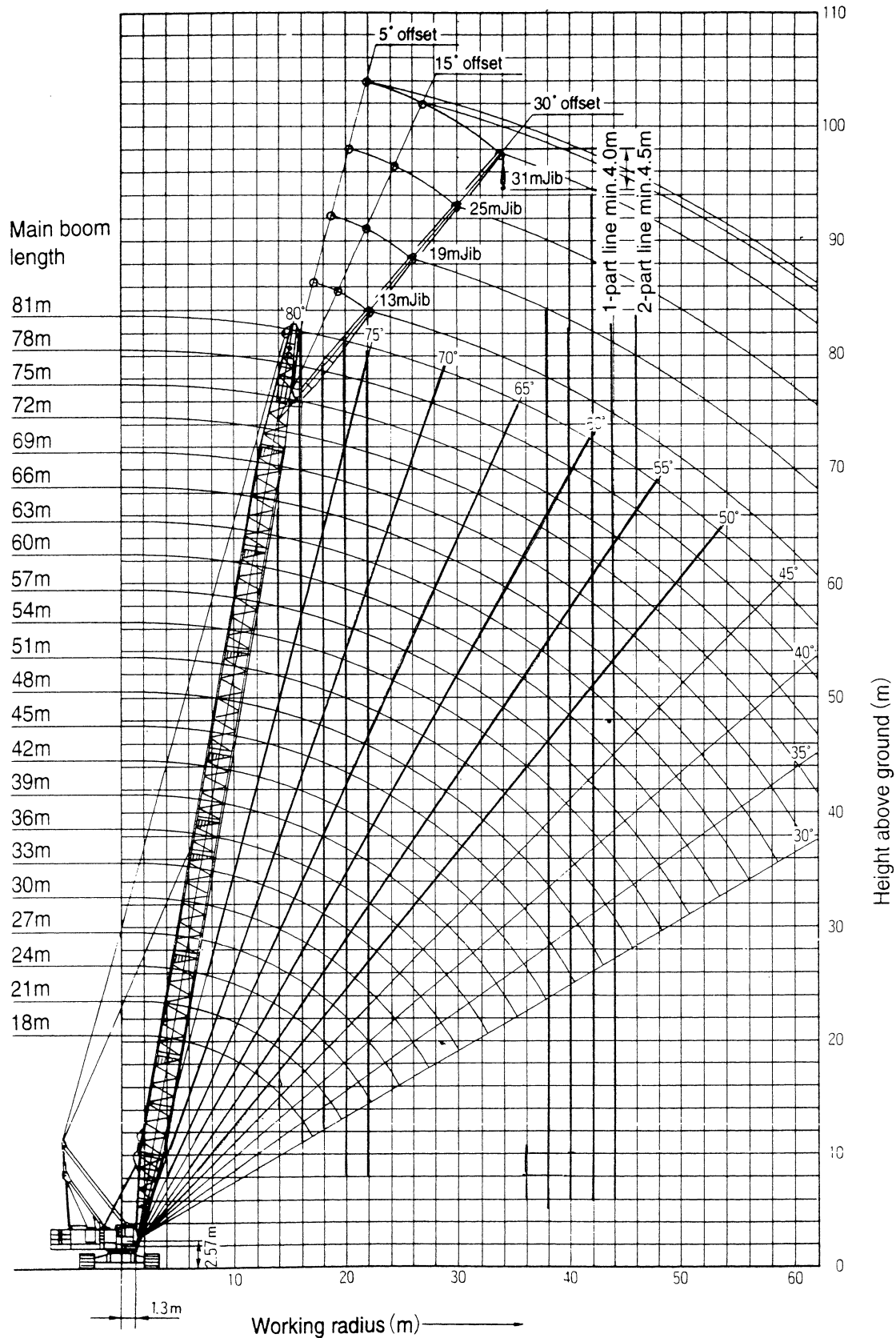
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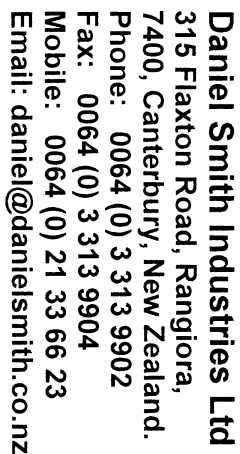
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Crane working range





Unit: metric ton

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CCH 1500-2

150 Ton Crawler

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Jib rated lifting loads (with 56,000kg counterweight)

Unit: metric ton

Boom length (m)		63												66											
Jib length (m)		13			19			25			31			13			19			25			31		
Offset angle	Working radius (m)	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°
		17.8m × 15.0												17.2m × 15.0						19.8m × 12.0					
16.0																									
18.0		15.0												15.0						12.0					
20.0		15.0	20.1m × 13.0					21.7m × 8.0						15.0	13.0		12.0			21.5m × 8.0					
22.0		15.0	13.0	22.4m × 12.0	12.0	23.6m × 10.0		8.0			22.9m × 4.0			15.0	13.0	22.3m × 12.0	12.0	23.5m × 10.0		8.0			22.7m × 4.0		
24.0		15.0	13.0	12.0	12.0	10.0		8.0			4.0			15.0	13.0	12.0	12.0	10.0		8.0			4.0		
26.0		15.0	13.0	12.0	12.0	10.0	27.2m × 8.0	8.0	26.5m × 7.0		4.0			15.0	13.0	12.0	12.0	10.0	27.1m × 8.0	8.0	26.3m × 7.0		4.0		
28.0		15.0	13.0	12.0	12.0	10.0	8.0	8.0	7.0		4.0	28.8m × 3.5		15.0	13.0	12.0	12.0	10.0	8.0	8.0	7.0		4.0	28.6m × 3.5	
30.0		14.7	13.0	12.0	12.0	10.0	8.0	8.0	7.0	31.2m × 6.0	4.0	3.5		14.6	13.0	12.0	12.0	10.0	8.0	8.0	7.0	31.0m × 6.0	4.0	3.5	
32.0		13.2	13.0	12.0	12.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5		13.0	13.0	12.0	12.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5	
34.0		12.1	12.1	12.0	12.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5	34.8m × 3.0	12.0	12.0	12.0	12.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5	35.0m × 3.0
36.0		11.1	11.1	11.1	11.1	10.0	8.0	8.0	7.0	6.0	4.0	3.5	3.0	11.0	11.0	11.0	11.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5	3.0
38.0		10.3	10.3	10.3	10.3	10.0	8.0	8.0	7.0	6.0	4.0	3.5	3.0	10.2	10.2	10.2	10.2	10.0	8.0	8.0	7.0	6.0	4.0	3.5	3.0
40.0		9.4	9.4	9.4	9.4	9.4	8.0	8.0	7.0	6.0	4.0	3.5	3.0	9.3	9.3	9.3	9.3	9.3	8.0	8.0	7.0	6.0	4.0	3.5	3.0
42.0		8.5	8.5	8.5	8.5	8.5	8.0	8.0	7.0	6.0	4.0	3.5	3.0	8.3	8.3	8.3	8.3	8.3	8.0	8.0	7.0	6.0	4.0	3.5	3.0
44.0		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.0	6.0	4.0	3.5	3.0	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.0	6.0	4.0	3.5	3.0
46.0		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	4.0	3.5	3.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	4.0	3.5	3.0
48.0		6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.0	4.0	3.5	3.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.0	4.0	3.5	3.0
50.0		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	3.5	3.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.0	3.5	3.0
52.0		5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.0	3.5	3.0	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.0	3.5	3.0
54.0		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	3.5	3.0
56.0		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	3.5	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	3.5	3.0
58.0														4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	3.5	3.0

Note:

- All rated loads are based on firm level ground, within 78% of tipping load at any point 360° around machine and with front stability of 1.15 or more.
- The weight of the hook and other lifting devices must be considered to be a part of the load. Hook capacity and weight are shown below. Loads which can be lifted are limited according to number of wire part lines as shown.

No. of part lines	1	2	3	4	5	6	7	8	10	12	14	16	Hook cap. (ton)	Hook wt. (ton)
Load limit (ton)	11	22	33	44	55	66	77	87	105	125	140	150	150	2.65
	11	22	33	44	55	66	77	87	100				100	1.60
	11	22	33	44	55	66	77	80					80	1.40
	11	15	33	44	55	60							60	1.25
	11	15	30										30	0.80
	11	15											15	0.80
	11												11	0.40

- When the jib boom is fitted, actual loads that can be lifted with the hook block for main hoisting should be reduced the following weight from the rated loads shown (the weight to be deducted includes that of the auxiliary hoist hook block).

Type of jib	1 m	13 m	19 m	25 m	31 m
Weight to be deducted	100kg	2900kg	3700kg	4700kg	5800kg

- The 1 m jib lifting loads should be decided as follows:
 - When the 1 m jib is mounted, the lifting loads must be reduced by 500 kg from the value of the above table.
 - When the 1 m jib is mounted, the max lifting load must not exceed the 11,000 kg.
 - When the main hook block is installed, the lifting loads must be reduced by the weight of the main hook and jib hook.
- When the 13 m - 31 m jib is mounted, the lifting loads must be shown by "jib rated lifting loads".
- The maximum angle formed by the extension line of the main boom and the centre line of the jib boom is 30°
- Rated lifting loads shown in the radius smaller than bold line are based on structural strength factor.
- The value shown in "jib rated lifting loads" is limited by jib strength.



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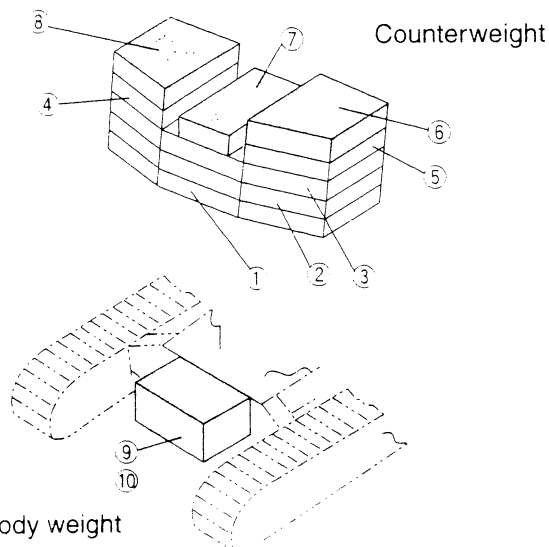
CCH 1500-2 150 Ton Crawler

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Jib rated lifting loads (with 56,000kg counterweight)

Unit: metric ton

Boom length (m)	69												72											
Jib length (m)	13			19			25			31			13			19			25			31		
Offset angle	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°
Working radius (m)	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°
16.0	15.0	15.0											15.0	15.0										
18.0	15.0	13.0		12.0									15.0	13.0										
20.0	15.0	13.0		12.0									15.0	13.0										
22.0	15.0	13.0	12.0	12.0	10.0		8.0			22.4m x 4.0			15.0	13.0	12.0	12.0	10.0		23.8m x 8.0					
24.0	15.0	13.0	12.0	12.0	10.0		8.0			4.0			15.0	13.0	12.0	12.0	10.0		8.0			25.0m x 4.0		
26.0	15.0	13.0	12.0	12.0	10.0	27.0m x 8.0	8.0	26.1m x 7.0		4.0			15.0	13.0	12.0	12.0	10.0		8.0			4.0		
28.0	15.0	13.0	12.0	12.0	10.0	8.0	8.0	7.0		4.0	28.4m x 3.5		15.0	13.0	12.0	12.0	10.0	29.2m x 8.0	8.0	28.5m x 7.0		4.0		
30.0	14.5	13.0	12.0	12.0	10.0	8.0	8.0	7.0	30.9m x 6.0	4.0	3.5		14.3	13.0	12.0	12.0	10.0	8.0	8.0	7.0		4.0	30.9m x 3.5	
32.0	12.9	12.9	12.0	12.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5		12.8	12.8	12.0	12.0	10.0	8.0	8.0	7.0	33.2m x 6.0	4.0	3.5	
34.0	11.9	11.9	11.9	11.9	10.0	8.0	8.0	7.0	6.0	4.0	3.5	34.4m x 3.0	11.6	11.6	11.6	11.6	10.0	8.0	8.0	7.0	6.0	4.0	3.5	
36.0	10.9	10.9	10.9	10.9	10.0	8.0	8.0	7.0	6.0	4.0	3.5	3.0	10.6	10.6	10.6	10.6	10.0	8.0	8.0	7.0	6.0	4.0	3.5	16.8m x 3.0
38.0	10.0	10.0	10.0	10.0	10.0	8.0	8.0	7.0	6.0	4.0	3.5	3.0	9.6	9.6	9.6	9.6	9.6	8.0	8.0	7.0	6.0	4.0	3.5	3.0
40.0	9.1	9.1	9.1	9.1	9.1	8.0	8.0	7.0	6.0	4.0	3.5	3.0	8.6	8.6	8.6	8.6	8.6	8.0	8.0	7.0	6.0	4.0	3.5	3.0
42.0	8.2	8.2	8.2	8.2	8.2	8.0	8.0	7.0	6.0	4.0	3.5	3.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.0	6.0	4.0	3.5	3.0
44.0	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.0	6.0	4.0	3.5	3.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.0	6.0	4.0	3.5	3.0
46.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.0	4.0	3.5	3.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.0	4.0	3.5	3.0
48.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.0	4.0	3.5	3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	3.5	3.0
50.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	4.0	3.5	3.0	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.0	3.5	3.0
52.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.0	3.5	3.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.0	3.5	3.0
54.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.0	3.5	3.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.0	3.5	3.0
56.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.0	3.5	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0
58.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.5	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.0
60.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0
62.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



Weight No.	Standard Counterweight (ton)	Additional Counterweight (ton)
1	16.0	16.0
2	15.0	15.0
3	15.0	15.0
4	5.0	5.0
5	5.0	5.0
6		4.9
7		3.2
8		4.9
9 (Front)		8.0
10 (Rear)		8.0
Total	56.0	85.0



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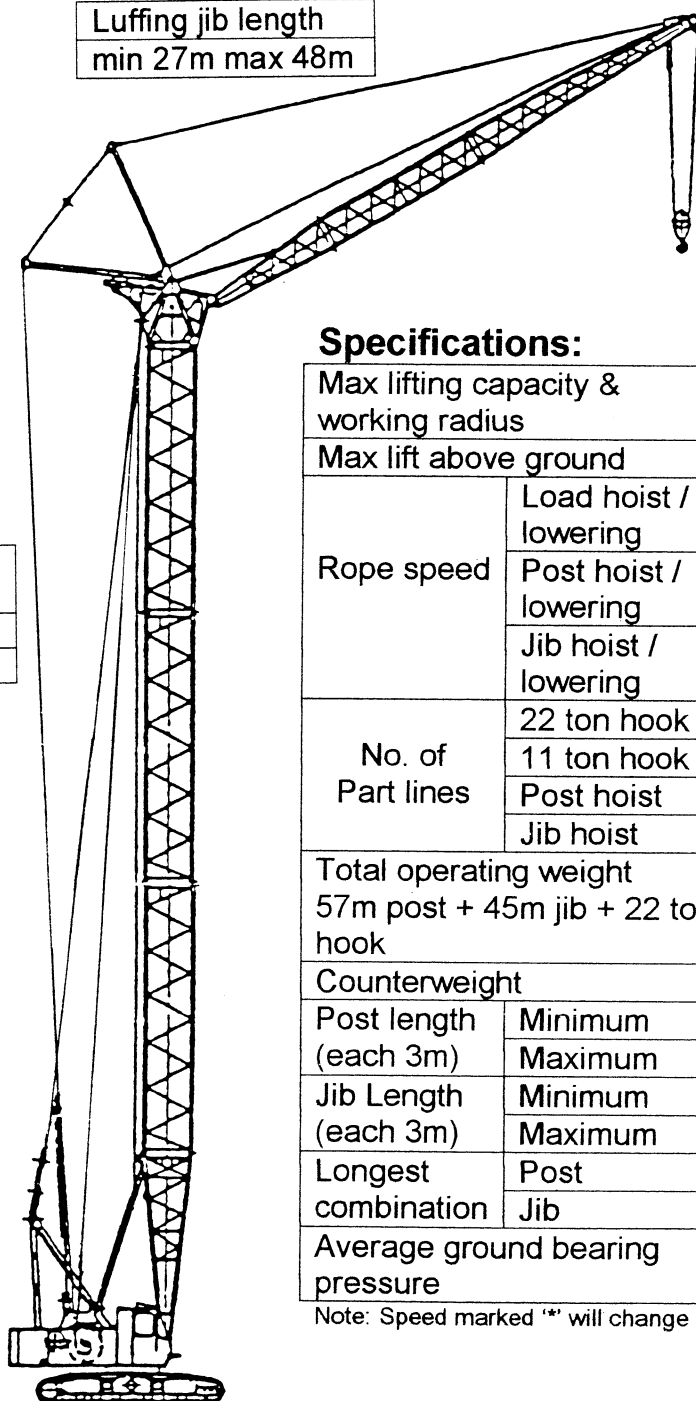
CCH 1500-2 150 Ton Crawler Luffing Tower Attachment

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Rigged on 150 ton crawler crane base

Luffing jib length
 min 27m max 48m

Post
 length
 min 33m
 max 57m



Specifications:

Max lifting capacity & working radius		22 tons x 14.5 m
Max lift above ground		100 m (57 m post + 45 m jib)
Rope speed	Load hoist / lowering	* 110 / 60 50 / 30 m / min
	Post hoist / lowering	* 28m / min x 2
	Jib hoist / lowering	* 30 m / min
No. of Part lines	22 ton hook	2 part line
	11 ton hook	1 part line
	Post hoist	9 x 2 part line
	Jib hoist	9 part line
Total operating weight 57m post + 45m jib + 22 ton hook		172 ton
Counterweight		56 ton
Post length (each 3m)	Minimum	33 m
	Maximum	57 m
Jib Length (each 3m)	Minimum	27 m
	Maximum	48 m
Longest combination	Post	54 m
	Jib	48 m
Average ground bearing pressure		0.96 kg / cm ²

Note: Speed marked "*" will change depending on load

Refer to DSI crane rating specification chart IHI CCH1500-2 for crane dimensions.

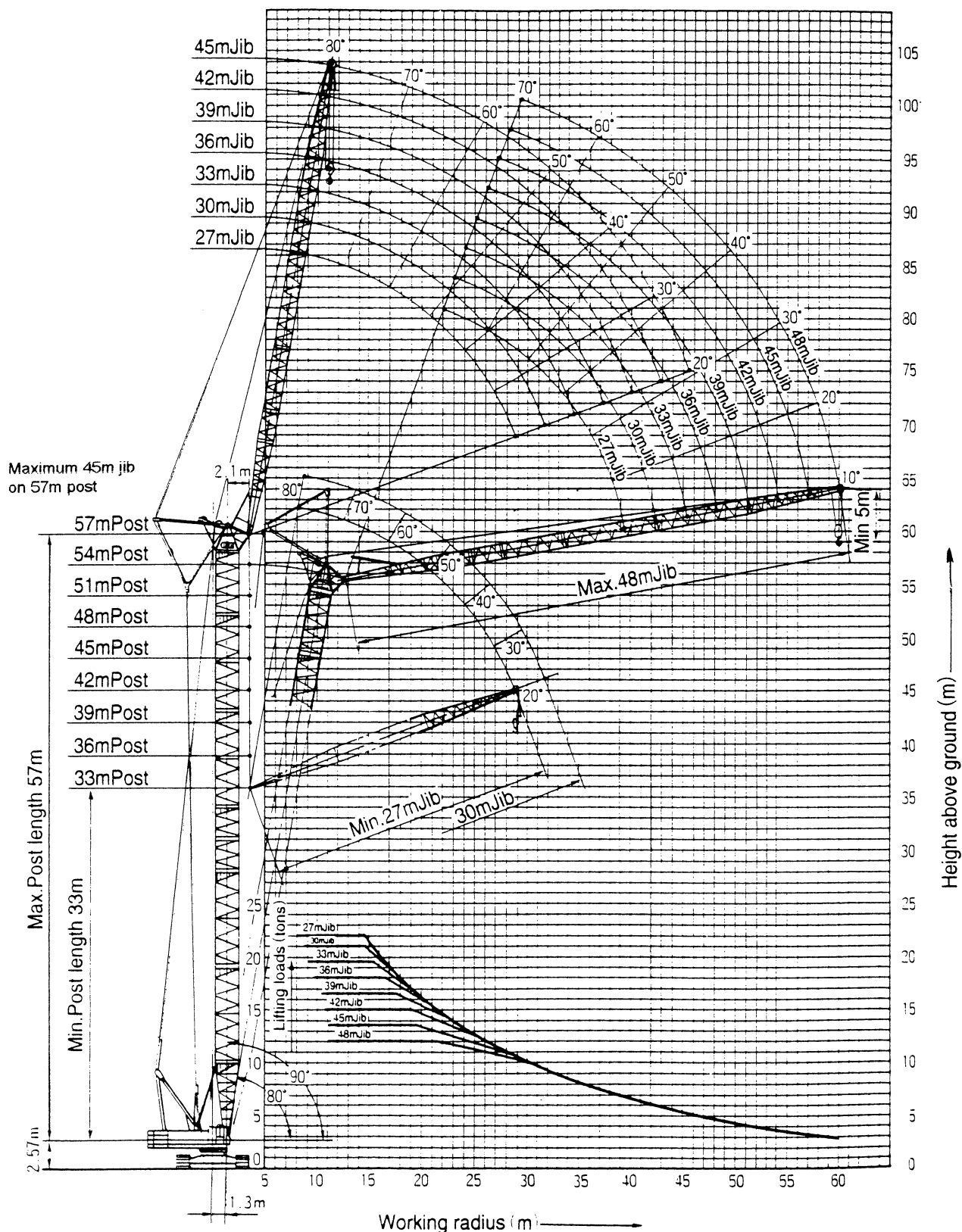


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CCH 1500-2 150 Ton Crawler Luffing Tower Attachment

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Tower crane working range and lifting loads





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Rated loads

(Unit : t)

Post length	33~57m	33~57m	36~57m	39~57m	42~57m	45~57m	48~57m	51~54m
Jib length								
Working radius	27	30	33	36	39	42	45	48
8.0	8.1m × 22.0	8.6m × 21.0						
9.0	22.0	21.0	9.2m × 19.5	9.7m × 18.0				
10.0	22.0	21.0	19.5	18.0	10.2m × 16.5	10.7m × 15.0		
11.0	22.0	21.0	19.5	18.0	16.5	15.0	11.2m × 13.5	11.8m × 12.0
12.0	22.0	21.0	19.5	18.0	16.5	15.0	13.5	12.0
}	}	}	}	}	}	}	}	}
14.5	22.0	21.0	19.5	18.0	16.5	15.0	13.5	12.0
15.0	21.3	20.6	19.5	18.0	16.5	15.0	13.5	12.0
16.0	20.0	19.7	19.1	16.5m × 18.0	17.5m × 16.5	15.0	13.5	12.0
18.0	18.1	18.1	17.8	17.2	16.3	19.0m × 15.0	19.5m × 13.5	12.0
20.0	16.4	16.4	16.3	16.2	15.5	14.6	13.4	12.0
22.0	14.9	14.9	14.9	14.9	14.5	13.8	12.8	11.7
24.0	13.5	13.6	13.6	13.6	13.6	13.0	12.2	11.3
26.0	12.3	12.3	12.3	12.3	12.3	12.1	11.6	11.0
28.0	11.1	11.1	11.1	11.1	11.1	11.1	11.0	10.4
30.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8
32.0	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
34.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
36.0	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
38.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
40.0	39.5m × 6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5
45.0		42.5m × 5.9	5.3	5.3	5.3	5.3	5.3	5.3
50.0				48.5m × 4.6	4.4	4.4	4.4	4.4
55.0					51.5m × 4.1	54.5m × 3.7	3.6	3.6
60.0							57.5m × 3.5	3.0

Notes on rated overall lifting load

- Rated overall lifting loads are based on the machine being on firm, level ground with load at any point in 360 degrees around the machine, and are specified within 78% of tipping load and front stability 1.15 or more.
- The actual lifting load is obtained by subtracting the following weight of the lifting device such as a hook etc... from the rated lifting load table.
 22 t hook = 80 kg 11 t hook = 400 kg 30 t hook = 800 kg
- Rated overall lifting load are decided with the strength of the post etc. Take care of overload.
- Operate the crane in the following range of minimum and maximum working radius.
 Minimum working radius ... when post angle is 90° and jib angle is 80°
 Maximum working radius ... when post angle is 80° and jib angle is 10° at the loaded state.



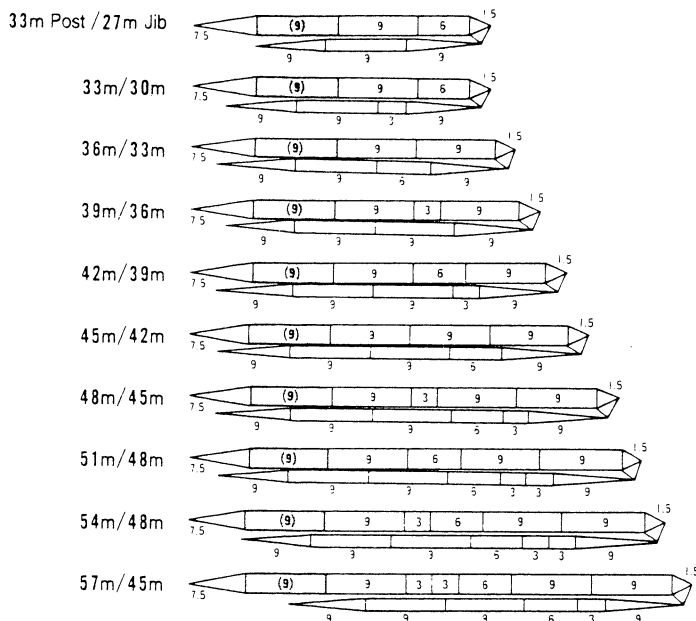
Daniel Smith Industries Ltd
 315 Flaxton Road, Rangiora, 7400
 Canterbury, New Zealand.
 Phone: 0064 (0) 3 313 9902
 Fax: 0064 (0) 3 313 9904
 Mobile: 0064 (0) 21 33 66 23
 Email: daniel@danielsmith.co.nz

IHI

CCH 1500-2 150 Ton Crawler Luffing Tower Attachment

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Post / jib composition (crane + tower specification)



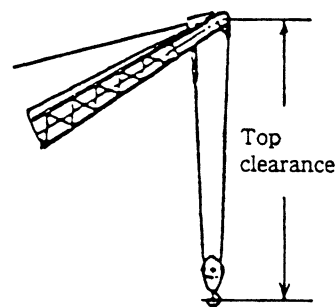
Note : 9 m insert post indicated by (9) is installed with equalizer rest, guide rail and 7.5 m pendant cable.
 Post can be used common with crane boom except 1.5 m tower top.

Combination of Post and Jib

(●: Available combination)

Post length (m)	Jib boom length (m)							
	27	30	33	36	39	42	45	48
33	●	●						
36	●	●	●					
39	●	●	●	●				
42	●	●	●	●	●			
45	●	●	●	●	●	●		
48	●	●	●	●	●	●	●	
51	●	●	●	●	●	●	●	●
54	●	●	●	●	●	●	●	●
57	●	●	●	●	●	●	●	

Hook Capa.	30t	11t	22t
Clearance	4.5m	4.0m	5.0m
	Tower crane 2 parts of line	Tower crane 1 part of line	Tower crane 2 parts of line



Wire rope

Place of use	Rope diameter (mm)	Guaranteed strength (ton)	Rope type
Load hoist	26	59.6	19 + 39 × 7 Tough-nuflex
Tower jib	26	49.9	6 × Fi (29) IWRC regular Z lay
Tower post	20	34.1	T7 × 7 + 6 × WS (31) IWRC regular Z lay
TowerJib suspension	34	104.0	T7 × 7 + 6 × WS (36) IWRC regular Z lay
Tower Post suspension	34	104.0	T7 × 7 + 6 × WS (36) IWRC regular Z lay