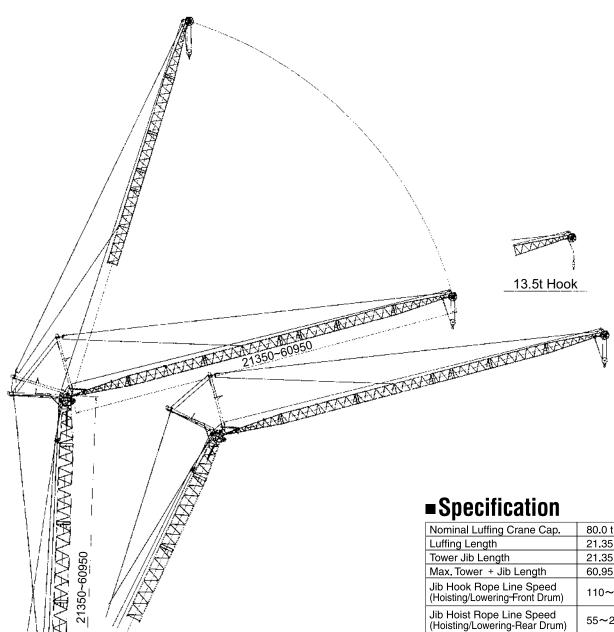


SCX2800₋₂

275-M ton Hydraulic Crawler Crane Luffing Jib Att.



 $80.0 t \times 9.3 m$ 21.35 m~60.95 m 21.35 m~60.95 m 60.95 m + 60.95 m 110~2.0 m/min 55~2.0 m/min Tower Hoist Rope Line Speed (Hoisting/Lowering-Boom Hoist Drum) (24~1.0 m/min) × 2 Slewing Speed 1.5 min ⁻¹⟨1.5 rpm⟩ Travel Speed 1.1/0.5 km/hr Engine Mitsubishi 6M70-TL 272kW/2,000min-1 (370 ps/2,000rpm) Gradeability 17° (30%)

Note: In the case that rear drum is used for liftwork thru tower top section sheave machinery, an optional luffing hoist drum is necessary. And, rope line speed of this optional drum is "55~2m/min" and its rope diameter is "28mm", and rear drum rope line speed is automatically set in "110~2m/min" on this drum arrangement.

1120

7860

9045

Front-end Attachment

7.30m tapered extension boom, and two plate links pinned to a part of 7.62m base section to adjust a little bit tower boom pendant rope length according to tower length. A 0.32m head section pins luffing jib base section, and rear post.

Three head sheaves mounted on anti-friction beanings of conventional non-sealed Tower top sheave machinery

grease type. An 80t lift is available as maxmum. Ultra heavy-duty tower boom extension ···· Available in 3.05m, 6.10m and 12.20m with tower boom/rear post pendants.

Heavy-duty tower boom extension ··········Available in 12.20m with tower boom/rear post pendants.

Tower boom length 21.20m with tower boom/rear post pendants.

Tower boom length 21.35m to 60.95m; the configuration of a 60.95m tower boom as maximum as recommended is as under: (1) 7.62m heavy-duty tower base section, (2) 3.05m ultra heavy-duty boom extension × 1 pc., (3) 6.10m ultra heavy-duty boom extension × 1 pc., (4) 12.20m ultra heavy-duty boom extension × 2 pcs., (5) 12.20m heavy-duty boom extension × 1 pc., (6) 7.30m tower top section, and (7) 0.32m tower head section.

Notes:

- 1. All of tower booms except 0.32m tower head section and 7.30m tapered extension can be converted to the general liftcrane boom attachment.
- 2. In converting tower boom attachment of 60.95m as shown above to the general liftcrane boom attachment of 91.45m as maximum, one set of 7.62m tapered crane top section, one set of 6.10m ultra heavy-duty boom extension and two sets of 12.20m heavy-duty boom extensions are additionally required.
- 3. All of ultra heavy- and heavy-duty boom extensions are designed with no intermediate diagonal bracing(s); the diagonal bracing is only designed at one of two picture frames. Accordingly, it is able to nest luffing jib extension into appropriate boom extension in length.

LUFFING JIB:

Lattice construction, round tubular main chords, alloy hi-ten steel, with bracing of round steel tubing.

Luffing jib connections.......In-line pin connections at 1.55m deep by 1.55m wide.

Basic luffing jibThree-pieces, 21.35m basic length; 9.15m bottom section, one 3.05m jib extension and 9.15m top section.

Luffing jib top head machinery......Three head and one guide sheaves mounted on anti-friction bearings of

Mid-point suspension cableRequired when luffing jib length exceeds 51.80m.

top section.

combination possible).

FRONT AND REAR POSTS:

All-welded box construction; 8.9m long for front post pinned to 9.15m luffing jib bottom section, and 7.3m long for rear post pinned to 0.32m tower head section. Provided with a nylon sheave of three (3) for front post, and of four (4) for rear post for 7-part rope hoist reeving between posts. Rear post provides two backstops with power hydraulic cylinders to easily set rear post position, and front post equips a luffig jib crane hoist cable guide sheave.

To be selected from 80t, 35t and 13.5t hook blocks (as same as those of the HOOK BLOCKS mentioned in to "Frontend Attachment" of separate SCX2800-2 SPECIFICATIONS).

DRUM DATA:

See DRUM DATA mentioned into page 8 of separate SCX2800-2 SPECIFICATIONS.

HOIST REEVING:

	Luffing jib & tower boom top crane hoists													
No. of part line	6	5	4	3	2	1								
Max. load (ton)	80.0	67.5	54.0	40.5	27.0	13.5								

Note: The actual lifting capacity is, however, restricted by the luffing jib crane capacity and/or by the SWL of appropriate hook capacity.

CABLES:

See CABLES mentioned into page 8 of separate SCX2800-2 SPECIFICATIONS.

WORKING WEIGHT:

Approx. 252ton with 60.95m tower boom, 60.95m tower jib, 102.8ton counterweight, 18.0ton lower weight, 1,120mm wide track shoes and 80t hook block.

GROUND CONTACT PRESSURE:

140.3kPa <1.43kg/cm²> under a 252ton working weight mentioned above.

Full download: http://manualplace.com/download/hitachi-sumitomo-scx2800-2tw-hydraulic-crawler-crane-specifications/

Luffing Jib Crane Capacities-80 metric tons

■w/21.35m Tower

Jib Length (m)		21.	.35		24.40				27.45					30.	.50		33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)		- 00					, 0		- 00		, ,		00	00			00		, ,	00
9.0	80.0/9.4																			
10.0	79.8				72.3/10.3				63.0/11.2											
12.0	75.6	77.3/13.0			69.1				61.7				67.7/12.1				56.8/13.0			
14.0	71.3	75.2			66.4	67.7/14.2			59.3	59.1/15.3			65.2				55.8			
16.0	59.6	67.2			59.5	65.2			57.5	58.2			59.6	56.6/16.5			52.9	53.5/17.6		
18.0	51.1	58.9	57.5/18.6		51.0	58.8			50.8	56.3			51.0	54.2			50.1	53.5		
20.0	44.6	50.6	53.3		44.5	50.5	53.1/20.1		44.3	50.3	48.2/21.6		44.5	48.3			44.7	48.2		
22.0	39.5	44.2	47.4		39.4	44.1	47.2		39.2	43.9	47.1		39.3	42.7	43.9/23.2		39.5	42.7		
24.0	36.3/23.5	39.2	42.5	38.4/25.1	35.3	39.1	42.4		35.1	38.9	42.2		35.2	38.3	42.1		35.3	38.2	40.5/24.7	
26.0		36.5/25.3	38.4	36.8	31.9	35.0	38.3	35.0/27.0	31.7	34.8	38.2		31.7	34.6	38.1		31.9	34.6	38.1	
28.0			35.0	33.5	31.3/26.4	31.7	35.0	33.4	28.9	31.5	34.8	31.7/29.0	28.9	31.5	34.7		29.0	31.6	34.7	
30.0			34.8/28.2	30.8		31.2/28.3	32.1	30.7	27.2/29.4	28.7	31.9	30.5	26.4	28.6	31.9	29.3/30.9	26.5	28.8	31.8	
32.0				28.5/31.7			30.6/31.2	28.3		27.3/31.2	29.5	28.1	24.4	26.2	29.4	28.0	24.4	26.3	29.4	27.1/32.9
34.0								26.3			27.3	26.1	24.1/32.3	23.8	27.3	26.0	22.6	24.2	27.2	25.9
36.0								25.7/34.6			27.2/34.1	24.3		23.6/34.2	25.1	24.2	21.4/35.3	21.8	25.1	24.1
38.0												23.0/37.6			24.1/37.1	22.6		20.7/37.1	23.2	22.5
40.0																21.2			21.5	21.1
42.0																20.8/40.5				19.8
44.0																				19.0/43.5
46.0																				

■w/21.35m Tower

Jib Length (m)		36	.55			39.	.60			42.65				45	.70		48.75				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)	100/100																				
12.0	48.8/13.9																			\vdash	
14.0	48.7				41.1/14.8				36.5/15.7											\vdash	
16.0	47.0				40.4				36.3				30.8/16.6				27.5/17.2				
18.0	45.7	46.3/18.7			39.4	39.0/19.9			35.1				30.1				27.2				
20.0	43.1	44.2			38.3	39.0			34.1	34.0/21.0			29.2				26.4				
22.0	39.4	41.6			37.5	37.9			33.3	33.7			28.5	28.5/22.2			25.7	25.4/23.0			
24.0	35.2	37.7			35.5	37.0			32.7	32.6			27.9	28.0			25.1	25.0			
26.0	31.7	34.5	37.7/26.2		32.0	34.4	35.1/27.7		31.7	31.8			27.4	27.5			24.6	24.4			
28.0	28.8	31.5	34.6		29.0	31.4	34.6		28.8	30.4	30.9/29.3		27.1	27.0			24.1	23.8			
30.0	26.4	28.6	31.7		26.5	28.8	31.7		26.3	27.6	30.7		26.6	26.4	26.0/30.8		23.5	23.4	22.7/31.9		
32.0	24.2	26.2	29.2		24.4	26.3	29.3		24.2	25.9	29.1		24.4	25.6	25.7		23.3	22.9	22.6		
34.0	22.4	24.1	27.1	24.9/34.9	22.5	24.2	27.1		22.3	24.0	26.9		22.5	23.9	25.2		22.4	22.7	22.4		
36.0	20.8	22.3	25.0	24.0	20.9	22.4	25.1	23.3/36.8	20.7	22.2	24.9		20.9	22.4	24.8		20.7	21.6	22.0		
38.0	19.4	20.6	23.1	22.4	19.4	20.8	23.2	22.3	19.2	20.5	23.0	21.5/38.8	19.4	20.7	23.2		19.3	20.1	21.6		
40.0	19.2/38.2	18.6	21.4	21.0	18.2	19.3	21.5	20.9	17.9	19.1	21.2	20.7	18.1	19.3	21.5	20.3/40.7	18.0	18.7	21.4		
42.0			19.9	19.7	17.5/41.1	17.6	20.0	19.6	16.8	17.8	19.7	19.4	16.9	18.0	19.9	19.4	16.8	17.4	20.5	18.9/42.2	
44.0			19.9/43.0	18.6		16.9/43.0	18.6	18.5	15.8	16.6	18.4	18.3	15.8	16.8	18.5	18.3	15.7	16.3	19.1	18.1	
46.0				17.5			17.5/45.9	17.5	15.7/44.1	15.1/45.9	17.2	17.2	14.9	15.8	17.3	17.2	14.8	15.3	17.8	17.1	
48.0				17.4/46.4				16.5			16.1	16.3	14.4/47.0	14.5	16.2	16.3	13.9	14.4	16.6	16.2	
50.0								15.9/49.4			15.8/48.8	15.4		13.6/48.9	15.2	15.4	13.3/49.3	13.5	15.6	15.3	
52.0												14.7			14.4/51.8	14.6		12.9/51.1	14.7	14.5	
54.0												14.5/52.3				13.9			13.8	13.8	
56.0																13.5/55.2				13.1	
																				12.6/57.5	
58.0																				12.6/57	