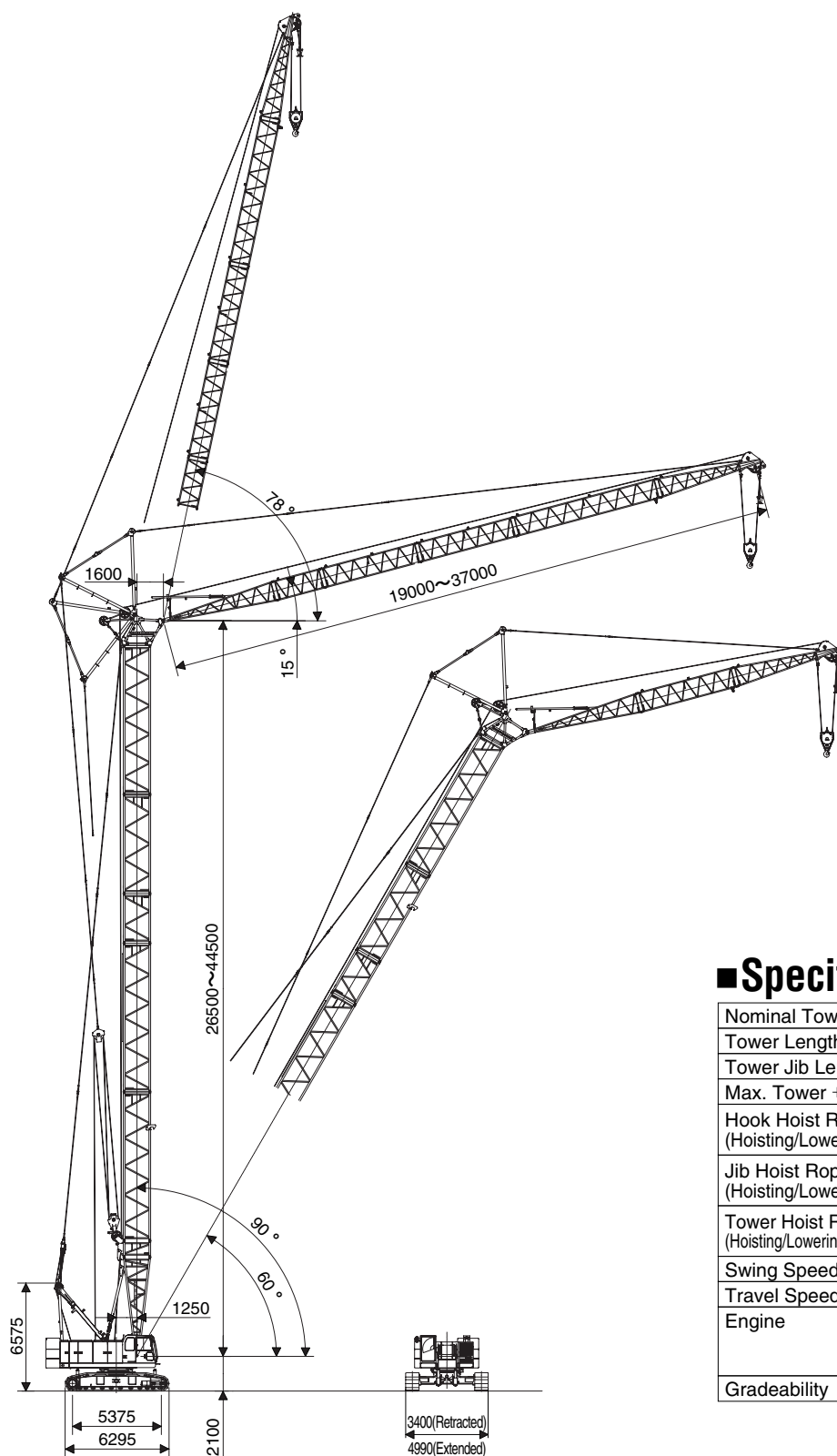




SCX900-2

90-M ton Hydraulic Crawler Crane
Luffing Towercrane Att.



■ Specification

Nominal Towercrane Cap.	15.0 t × 14.0 m
Tower Length	26.5 m~44.5 m
Tower Jib Length	19.0 m~37.0 m
Max. Tower + Jib Length	44.5 m + 37.0 m
Hook Hoist Rope Line Speed (Hoisting/Lowering-Front Drum)	110.0~2.0 m/min
Jib Hoist Rope Line Speed (Hoisting/Lowering-Rear Drum)	37.0~2.0 m/min
Tower Hoist Rope Line Speed (Hoisting/Lowering-Boom Hoist Drum)	46.0~2.0 m/min
Swing Speed	2.5 min ⁻¹ <2.5 rpm>
Travel Speed	2.1/1.2 kph
Engine	Isuzu 6HK1X 212kW/2,000min ⁻¹ <288 ps/2,000rpm>
Gradeability	17° (30%)

Luffing Towercrane 15 metric tons

TOWER BOOM:

- Lattice construction, round tubular main chords, alloy, hi-ten steel, with bracing of round steel tubing.
- Tower boom connections In-line pin connections at 1.55m deep by 1.55m wide.
- Special tower boom extensions (1) 1.0m long, lattice construction; pins tower jib bail assembly on upper part, and just pinned next to 6.0m bottom section. Available to use as liftcrane boom extension.
- (2) 9.0m long, lattice construction; provided with luffing jib hoist bridle guide rails, and pinned next to 9.0m extension as 3rd section in the configuration. Available to use as liftcrane boom extension.
- Tower boom extensions Available in length of 3.0m, 6.0m and 9.0m with tower boom/tower jib hoist pendants. Available to use as liftcrane boom extension.
- Tower head section 1.5m long, lattice construction; pinned on top of tower boom. Pins tower jib and fan-shaped post, and provides one guide sheaves for hoist cable and two guide rollers for tower jib hoist pendant ropes.
- Tower boom length 26.5m to 44.5m; the configuration of a 44.5m tower boom as maximum is as under:
(1) 6.0m bottom section + (2) 1.0m special ext. + (3) 9.0m ext. + (4) 9.0m special ext. + (5) 3.0m ext. + (6) 6.0m ext. + (7) 9.0m ext. + (8) 1.5m head section.
- Tower boom luffing angle 90° thru 60° steplessly (according to tower boom/jib combination).

Notes:

1. Bottom section of 6.0m long and boom extensions of 3.0m, 6.0m and 9.0m long as necessary to complete liftcrane boom attachment are available from those of luffing towercrane boom attachment.
2. In a case of converting luffing towercrane boom attachment of 44.5m as max. to liftcrane boom attachment of 61.0m as maximum as available, three items of one set each of 3.0m boom extension, 9.0m boom extension and 6.0m tapered crane top section are only additionally required.

TOWER JIB:

- Lattice construction, round tubular main chords, alloy hi-ten steel, with bracing of round steel tubing.
- Tower jib connections In-line pin connections at 1.15m deep by 1.15m wide.
- Basic tower jib Three-piece, 19.0m basic length; 7.0m bottom section, one 6.0m extension and 6.0m tower jib top section.
- Tower jib top head machinery Single head and one guide sheaves mounted on anti-friction bearings.
- Tower jib extensions Available in 3.0m, 6.0m and 9.0m lengths with pendants.
- Maximum tower jib length 37.0m; a 37.0m tower jib as maximum consists of (1) 7.0m bottom section + (2) 3.0m ext. × 1 pc. + (3) 6.0m ext. × 2 pcs. + (4) 9.0m ext. × 1pc. + (5) 6.0m top section.
- Tower jib angle Available from 15° thru 78° (to ground).

FAN-SHAPED POST:

All-welded construction; pinned to tower head section. Serves as mechanical connection for tower jib hoisting and lowering motions.

TOWER JIB BAIL AND BRIDLE:

All-welded construction; provided with larger sheaves of a 21.0 D/d ratio on both bail and bridle for an 8-part tower jib hoist rope reeving. Bail pinndd to an 1.0m special tower boom extensions, and bridle suspended between an 8-part tower jib hoist rope and pendant ropes connecting to tower post.

HOOK BLOCKS:

To be selected from 30ton and 11ton hook blocks (as same as those of the HOOK BLOCKS mentioned in to "Crane 90 metric tons" of the separate SCX900-2 SPECIFICATIONS).

DRUM DATA:

See DRUM DATA mentioned into page 8 of the separate SCX900-2 SPECIFICATIONS. In case that machine is operated under luffing towercrane attachment, rope line speed of rear main drum (as used for tower jib hoisting/lowering motion) is automatically changed to "37-2.0mpm".

HOIST REEVING:

	Towercrane hoist	
No. of part line	2	1
Max. load (ton)	15.0	11.0

CABLES:

- Front drum 3×F (a+40), non-spin type, 26mm dia./260m long, breaking load 569kN (58.0t).
- Rear drum IWRC 6×WS (31), 26mm dia./150m long, breaking load 500kN (51.0t).
- Boom hoist drum Same as that of liftcrane application.
- Optional 3rd drum Same as that of liftcrane application.

WORKING WEIGHT:

Approx. 96.0ton with 44.5m tower boom, 37.0m tower jib, 29.7ton counterweight, 2.0ton auxiliary weight, 810mm wide track shoes and 30t hook block.

GROUND PRESSURE:

1.08kPa <1.10kg/cm²> under a 96.0ton working weight mentioned above.

Luffing Towercrane Capacities

■ w/26.5m Tower

Jib length(m)	19.0				22.0			
Tower angle (°)	90	80	70	60	90	80	70	60
Working radius(m)								
7.6	15.00							
8.0	15.00				15.00/8.2			
9.0	15.00				15.00			
10.0	15.00				15.00			
11.0	15.00				15.00			
12.0	15.00				15.00			
13.0	15.00				15.00			
14.0	15.00	14.60/14.8			15.00			
15.0	14.40	14.30			14.30	13.10/15.9		
16.0	13.60	13.20			13.60	13.00		
18.0	11.90	11.40			11.70	11.20		
20.0	10.60	10.00			10.30	9.80		
22.0	9.10/20.9	8.80	8.00/22.1		9.10	8.70	7.10/23.7	
24.0		7.90	7.20		7.80/23.8	7.80	7.00	
26.0		7.40/25.5	6.50			7.10	6.30	
28.0			5.90	5.00/28.7		6.40	5.70	
30.0			5.40/29.9	4.80		6.30/28.4	5.20	4.40/30.7
32.0				4.40			4.80	4.30
34.0				4.00			4.60/32.8	4.00
36.0								3.70
36.8								3.50

■ w/29.5m Tower

Jib length (m)	19.0				22.0				25.0			
Tower angle (°)	90	80	70	60	90	80	70	60	90	80	70	60
Working radius (m)												
7.6	15.00											
8.0	15.00				15.00/8.2							
9.0	15.00				15.00				15.00/8.9			
10.0	15.00				15.00				15.00			
11.0	15.00				15.00				15.00			
12.0	15.00				15.00				15.00			
13.0	15.00				15.00				15.00			
14.0	15.00				15.00				15.00			
15.0	14.40	13.70/15.3			14.30				14.20			
16.0	13.60	13.00			13.50	12.30/16.5			13.40	11.20/17.6		
18.0	11.80	11.20			11.70	11.10			11.60	10.90		
20.0	10.40	9.80			10.30	9.70			10.20	9.60		
22.0	9.20/20.9	8.70	7.40/23.1		9.10	8.60			9.00	8.50		
24.0		7.80	6.90		7.90/23.8	7.70	6.40/24.7		8.10	7.60		
26.0		7.00	6.20			6.90	6.00		7.30	6.80	5.80/26.3	
28.0			5.70			6.30	5.50		6.80/26.7	6.20	5.30	
30.0			5.20	4.40/30.2		6.00/28.9	5.10			5.70	4.90	
32.0			5.00/30.9	4.10			4.60	3.90/32.2		5.30/31.8	4.50	
34.0				3.80			4.30/33.8	3.60			4.10	3.40/34.2
36.0				3.60/35.5				3.40			3.80	3.30
38.0								3.10			3.70/36.7	3.00
40.0								3.00/38.3				2.80
41.2												2.70

■w/32.5m Tower

Jib length (m)	19.0				22.0				25.0				28.0			
Tower angle (°)	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60
Working radius (m)																
7.6	15.00															
8.0	15.00				15.00/8.3				15.00/8.9							
9.0	15.00				15.00				15.00				15.00/9.6			
10.0	15.00				15.00				15.00				15.00			
11.0	15.00				15.00				15.00				15.00			
12.0	15.00				15.00				15.00				15.00			
13.0	15.00				15.00				15.00				15.00			
14.0	15.00				15.00				15.00				15.00			
15.0	14.40	12.90/15.9			14.40				14.30				14.20			
16.0	13.60	12.80			13.50	11.70/17.0			13.40				13.30			
18.0	11.80	11.00			11.70	10.90			11.60	10.70/18.1			11.50	9.70/19.2		
20.0	10.30	9.70			10.30	9.50			10.20	9.40			10.10	9.30		
22.0	9.30/20.9	8.60			9.10	8.40			9.00	8.30			8.90	8.20		
24.0		7.70	6.40/24.1		8.00/23.8	7.60	5.80/25.7		8.10	7.40			8.00	7.30		
26.0		6.90	6.00			6.80	5.70		7.30	6.70	5.20/27.3		7.20	6.60		
28.0		6.70/26.5	5.40			6.20	5.30		6.80/26.7	6.10	5.00		6.60	6.00	4.60/28.9	
30.0			4.90	3.80/31.7		5.80/29.4	4.80			5.50	4.70		5.90/29.6	5.40	4.40	
32.0			4.40/31.9	3.70			4.40	3.30/33.7		5.10	4.30			5.00	4.10	
34.0				3.50			4.10	3.20		5.00/32.3	3.90	2.90/35.7		4.60	3.80	
36.0				3.20			3.90/34.8	3.10			3.60	2.80		4.40/35.2	3.50	2.60/37.7
38.0				3.00/37.0				2.90			3.30/37.7	2.70			3.20	2.50
40.0								2.70/39.8				2.50			3.00	2.40
42.0												2.30			2.90/40.6	2.20
44.0												2.20/42.7				2.00
45.6																1.90

■w/35.5m Tower

Jib length (m)	19.0				22.0				25.0				28.0				31.0			
Tower angle (°)	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60
Working radius (m)																				
7.6	15.00																			
8.0	15.00				15.00/8.3				15.00/8.9											
9.0	15.00				15.00				15.00				15.00/9.6							
10.0	15.00				15.00				15.00				15.00				13.00/10.2			
11.0	15.00				15.00				15.00				15.00				13.00			
12.0	15.00				15.00				15.00				15.00				13.00			
13.0	15.00				15.00				15.00				15.00				13.00			
14.0	15.00				15.00				15.00				15.00				13.00			
15.0	14.40				14.40				14.30				14.20				12.50			
16.0	13.60	12.40/16.4			13.50	11.30/17.5			13.40				13.30				12.20			
18.0	11.70	10.80			11.70	10.70			11.60	10.20/18.6			11.50	9.20/19.8			11.40			
20.0	10.30	9.50			10.20	9.40			10.10	9.20			10.00	9.10			10.00	8.50/20.9		
22.0	9.40/20.9	8.40			9.10	8.30			9.00	8.20			8.90	8.10			8.80	7.90		
24.0		7.50	5.90/25.1		8.00/23.8	7.40			8.10	7.30			8.00	7.20			7.90	7.10		
26.0		6.80	5.70			6.70	5.30/26.7		7.30	6.60			7.20	6.50			7.10	6.30		
28.0		6.40/27.1	5.10			6.10	5.00		6.90/26.7	6.00	4.70/28.3		6.50	5.90	4.30/29.9		6.60	5.70		
30.0			4.70			5.50	4.60			5.40	4.40		5.90/29.6	5.30	4.30		6.10	5.20	3.80/31.5	
32.0			4.30	3.30/33.2			4.20			5.00	4.10			4.90	4.00		5.30	4.80	3.70	
34.0			4.10/33.0	3.20			3.90	2.90/35.2		4.80/32.9	3.70			4.50	3.60		5.00/32.5	4.40	3.50	
36.0				3.00			3.60/35.9	2.80			3.40	2.60/37.2		4.20/35.7	3.30			4.00	3.20	
38.0				2.70				2.60			3.20	2.50			3.10	2.30/39.2		3.70	2.90	
40.0				2.60/38.5				2.40			3.10/38.8	2.30			2.80	2.20		3.60/38.6	2.70	1.80/41.2
42.0								2.30/41.3				2.10			2.60/41.7	2.00			2.50	1.70
44.0												1.80				1.80			2.30	1.50
46.0												1.80/44.2				1.60			2.20/44.6	1.40
48.0																1.40/47.1				1.30

■ w/38.5m Tower

Jib length (m)	19.0				22.0				25.0				28.0				31.0			34.0		
Tower angle (°)	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	90	80	70
Working radius (m)																						
7.7	15.00																					
8.0	15.00				15.00/8.3																	
9.0	15.00				15.00				15.00				15.00/9.6									
10.0	15.00				15.00				15.00				15.00				13.00/10.3			11.00/10.9		
11.0	15.00				15.00				15.00				15.00				13.00			11.00		
12.0	15.00				15.00				15.00				15.00				13.00			11.00		
13.0	15.00				15.00				15.00				15.00				13.00			10.90		
14.0	15.00				15.00				15.00				15.00				13.00			10.70		
15.0	14.40				14.40				14.30				14.20				12.30			10.50		
16.0	13.50	11.70/16.9			13.50				13.30				13.30				12.00			10.30		
18.0	11.70	10.60			11.60	10.50			11.50	9.60/19.2			11.40				11.40			10.00		
20.0	10.30	9.30			10.20	9.20			10.10	9.00			10.00	8.70/20.3			9.90	8.00/21.4		9.80		
22.0	9.40/20.9	8.30			9.10	8.10			9.00	8.00			8.90	7.90			8.80	7.70		8.70	7.10/22.5	
24.0		7.40			8.10/23.8	7.30			8.00	7.10			8.00	7.00			7.90	6.90		7.80	6.80	
26.0		6.70	5.30/26.2			6.50	4.90/27.8		7.30	6.40			7.20	6.30			7.10	6.20		7.00	6.10	
28.0		6.20/27.6	4.90			5.90	4.80		6.90/26.7	5.80	4.40/29.4		6.50	5.70			6.40	5.60		6.30	5.50	
30.0			4.50			5.40	4.30			5.30	4.20		6.00/29.6	5.20	3.90/30.9		5.90	5.10		5.80	5.00	
32.0			4.10			5.40/30.5	4.00			4.90	3.80			4.80	3.70		5.30	4.60	3.50/32.5	5.30	4.60	
34.0			3.80	2.90/34.7			3.60			4.60/33.4	3.50			4.40	3.40		5.20/32.5	4.30	3.30	4.90	4.20	3.10/34.1
36.0				2.70			3.30	2.50/36.7			3.20			4.00	3.00			3.00	4.50/35.4	3.80	2.90	
38.0			2.50			3.20/36.9	2.30			3.00	2.00/38.7		4.00/36.3	2.90				3.60	2.70		3.50	2.60
40.0				2.20			2.10			2.80/39.8	1.90			2.60	1.70/40.7		3.40/39.2	2.50		3.30	2.40	
42.0							1.90				1.70			2.40	1.60			2.30		3.10	2.20	
44.0							1.80/42.8				1.50			2.30/42.7	1.40			2.10		3.10/42.1	2.00	
46.0											1.30/45.7				1.30			2.00/45.6			1.90	
48.0																					1.70	
48.5																						1.60

■ w/41.5m Tower

Jib length (m)	19.0				22.0				25.0				28.0			31.0			34.0			37.0	
Tower angle (°)	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	90	80	70	90	80	70	90	80
Working radius (m)																							
7.7	15.00																						
8.0	15.00				15.00/8.3																		
9.0	15.00				15.00				15.00				15.00/9.6										
10.0	15.00				15.00				15.00				15.00			13.00/10.3			11.00/10.9				
11.0	15.00				15.00				15.00				15.00			13.00			11.00			9.30/11.6	
12.0	15.00				15.00				15.00				15.00			13.00			11.00			9.30	
13.0	15.00				15.00				15.00				15.00			13.00			10.90			9.30	
14.0	15.00				15.00				15.00				15.00			13.00			10.70			9.30	
15.0	14.40				14.40				14.30				14.20			12.30			10.50			9.20	
16.0	13.50	10.80/17.4			13.40				13.30				13.20			12.00			10.30			9.00	
18.0	11.70	10.40			11.60	9.80/18.6			11.50	9.00/19.7			11.40			11.30			10.00			8.70	
20.0	10.30	9.10			10.20	9.00			10.10	8.80			10.00	8.30/20.8		9.90	7.50/21.9		9.80			8.50	
22.0	9.40/20.9	8.10			9.00	7.90			8.90	7.80			8.90	7.70		8.80	7.40		8.70	6.80/23.0		8.20	
24.0		7.20			8.00/23.8	7.10			8.00	7.00			7.90	6.90		7.80	6.70		7.80	6.60		7.70	5.60/24.2
26.0		6.50	4.90/27.2			6.40			7.20	6.30			7.20	6.20		7.10	6.10		7.00	6.00		6.90	5.60
28.0		5.90	4.70			5.80	4.20/28.8		7.00/26.7	5.70			6.50	5.60		6.40	5.50		6.30	5.40		6.20	5.30
30.0		5.90/28.1	4.20			5.30	4.10			5.20	3.80/30.4	6.00/29.6	5.10			5.90	5.00		5.80	4.90		5.70	4.80
32.0			3.90			5.10/31.0	3.70			4.70	3.60		4.70	3.40	5.30	4.50	3.10/33.6	5.30	4.40		5.20	4.40	
34.0			3.60				3.40			4.40/33.9	3.30		4.30	3.20	5.20/32.5	4.10	3.00	4.90	4.10	2.70/35.1	4.50	4.00	
36.0			3.50/35.0	2.30/36.2			3.10				3.00		3.90	2.90		3.80	2.80	4.50/35.4	3.70	2.60	3.90	3.60	
38.0				2.10			2.90/37.9	1.90/38.2			2.80		3.80/36.8	2.70		3.50	2.50		3.40	2.40	3.40	3.30	
40.0				1.90				1.70			2.50			2.50		3.20/39.7	2.30		3.20	2.20	3.20/38.3	3.10	
42.0				1.80/41.5				1.50			2.50/40.8			2.30			2.10		2.90	2.00		2.80	
44.0								1.40						2.10/43.7			2.00		2.80/42.6	1.90		2.60	
46.0								1.40/44.3									1.80			1.60		2.50/45.5	
48.0																	1.70/46.6			1.50			
49.5																				1.40			

■ w/44.5m Tower

Jib length (m)	19.0				22.0			25.0			28.0			31.0			34.0			37.0	
Tower angle (°)	90	80	70	60	90	80	70	90	80	70	90	80	70	90	80	70	90	80	70	90	80
Working radius (m)																					
7.7	15.00																				
8.0	15.00				15.00/8.4																
9.0	15.00				15.00			15.00			15.00/9.7										
10.0	15.00				15.00			15.00			15.00			13.00/10.3							
11.0	15.00				15.00			15.00			15.00			13.00			11.00			9.30/11.6	
12.0	15.00				15.00			15.00			15.00			13.00			11.00			9.30	
13.0	15.00				15.00			15.00			15.00			13.00			10.90			9.30	
14.0	15.00				15.00			15.00			15.00			13.00			10.70			9.30	
15.0	14.40				14.40			14.30			14.30			12.30			10.50			9.10	
16.0	13.50	10.20/17.9			13.40			13.30			13.20			12.00			10.30			9.00	
18.0	11.70	10.10			11.60	9.30/19.1		11.50			11.40			11.30	7.10/22.4		10.00			8.70	
20.0	10.20	8.90			10.10	8.80		10.00	8.40/20.2		10.00	7.80/21.3		9.90	6.50		9.80			8.50	
22.0	9.30/20.9	7.90			9.00	7.80		8.90	7.60		8.80	7.50		8.70	5.80		8.60	6.50/23.6		8.20	
24.0		7.10			7.90/23.8	6.90		8.00	6.80		7.90	6.70		7.80	5.30		7.70	6.30		7.60	5.40/24.7
26.0		6.40				6.30		7.20	6.10		7.10	6.00		7.00	4.80		6.90	5.70		6.90	5.30
28.0		5.80	4.20/28.2			5.70	3.90/29.8	6.80/26.7	5.50		6.50	5.50		6.40	4.40		6.30	5.20		6.20	5.10
30.0		5.70/28.6	4.00			5.20	3.80		5.00	3.50/31.4	6.00/29.6	5.00		5.80	4.00		5.70	4.70		5.70	4.60
32.0			3.60			4.90/31.5	3.50		4.60	3.40		4.50	3.10/33.0	5.30	3.70		5.30	4.30		5.10	4.20
34.0			3.30				3.20		4.20	3.10		4.10	3.00	5.20/32.5	3.40	2.60/34.6	4.80	3.90		4.40	3.80
36.0			3.00	1.80/37.7			2.90		4.10/34.4	2.80		3.80	2.70		3.20	2.50	4.50/35.4	3.60	2.50/36.2	3.80	3.50
38.0				1.70			2.70			2.60		3.60/37.3	2.50		3.20/40.2	2.30		3.30	2.20	3.30	3.20
40.0				1.60			2.60/38.9			2.40			2.30			2.10		3.10	2.00	3.20/38.3	3.00
42.0				1.50						2.20/41.8			2.10			1.90		2.80	1.80		2.70
44.0				1.40/43.0									1.90			1.70		2.50/43.1	1.60		2.50
46.0													1.90/44.7			1.60			1.50		2.20
47.6																1.50					

Notes:

- Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are in metric tons, and are based on 78% of minimum tipping load, or based on the other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.
- Capacities are under crawler extended condition with 4,180mm gauge.
- Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear. Hook block weight is as follows;
30t 0.37ton
- A 29.7ton counterweight and 2.0ton auxiliary weight (or opt. 3rd drum winch) are required.
- All capacities are rated for 360° swing.
- Least stable rated condition is over the side.
- Attachment must be erected and lowered over the front of the crawler mounting.
- Working radii shown above are at loading condition.
- The machine can be steplessly operated at tower angle between 60 and 90 degrees safely according to tower boom/jib combination; tower crane capacities available under any tower angle are automatically set up by a computerized automatic over-load preventing system, Load Moment Indicator.
- The machine must be operated in accordance with correct tower boom and jib combination shown right.
- Capacities under single part hoist line are detailed; if required, please consult us, or nearest distributor.

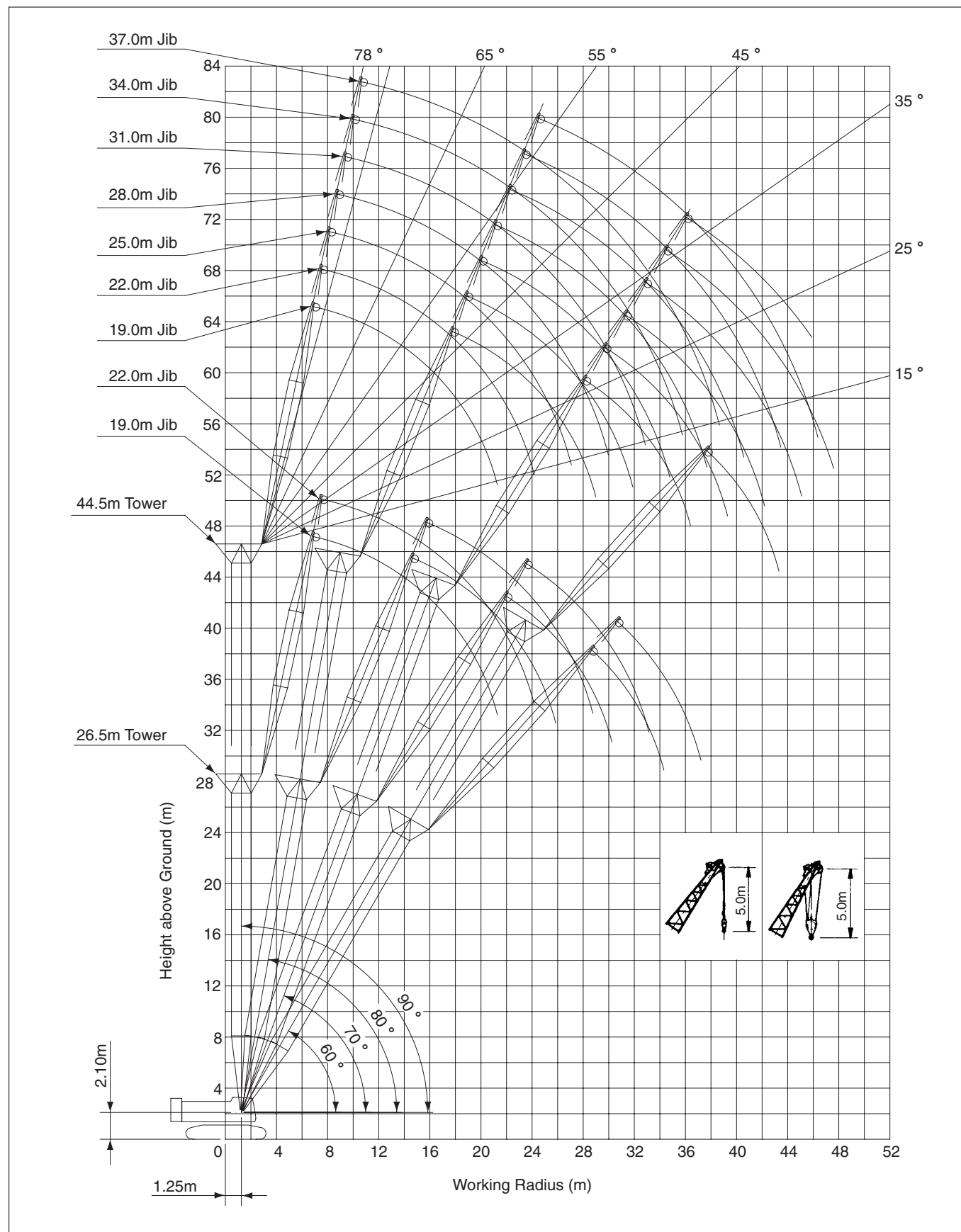
■ Combination Table

Jib length (m)	19.0	22.0	25.0	28.0	31.0	34.0	37.0
Tower length (m)							
26.5	●	●	×	×	×	×	×
29.5	●	●	●	×	×	×	×
32.5	●	●	●	●	×	×	×
35.5	●	●	●	●	●	×	×
38.5	●	●	●	●	◎	◎	×
41.5	●	●	◎	◎	◎	◎	○
44.5	●	◎	◎	◎	◎	◎	○

Notes:

- The meaning of symbols shown in the above table is as follows;
- Symbol of "●" : Possible to luff tower between 90° thru 60°;
 - Symbol of "◎" : Possible to luff tower between 90° thru 70°;
 - Symbol of "○" : Possible to luff tower between 90° thru 80°;
 - Symbol of "×" : Impossible to make any of tower boom and jib combination.

Luffing Towercrane Working Ranges



Liftcrane Capacities

■w/1.0m & 9.0m Special Tower Boom Extensions

Boom length (m) Working radius (m)	13.0	16.0	19.0	22.0	25.0	28.0	31.0	34.0	37.0	40.0	43.0	46.0	49.0	52.0	55.0	58.0	61.0
4.0	86.20/4.2																
4.5	80.50	73.85/4.7															
5.0	70.80	69.20	63.30/5.3														
5.5	62.40	61.60	60.60	56.80/5.8													
6.0	55.00	55.00	55.00	54.90	51.45/6.3												
6.5	48.80	48.80	48.80	48.75	48.65	43.80/6.9											
7.0	44.00	44.00	44.00	43.95	43.80	43.70	40.25/7.4										
8.0	36.30	36.25	36.15	36.10	36.05	36.00	35.90	35.75	30.00/8.5								
9.0	30.75	30.70	30.60	30.55	30.45	30.40	30.30	30.10	30.00	29.10/9.1	26.90/9.6						
10.0	26.60	26.55	26.45	26.35	26.30	26.20	26.10	25.90	25.80	25.70	25.60	24.70/10.2	21.65/10.7	21.35/11.3	19.55/11.8		
12.0	20.85	20.75	20.60	20.50	20.40	20.40	20.20	20.00	19.90	19.80	19.70	19.60	19.60	19.40	19.30	17.40/12.4	14.90/12.9
14.0	19.35/12.7	16.90	16.80	16.70	16.50	16.50	16.30	16.10	16.00	15.90	15.80	15.70	15.60	15.50	15.30	15.20	14.50
16.0		15.05/15.3	14.05	13.95	13.85	13.70	13.50	13.40	13.30	13.10	13.00	12.90	12.80	12.60	12.50	12.40	12.20
18.0			12.15/17.9	11.95	11.80	11.70	11.50	11.35	11.25	11.10	10.95	10.85	10.80	10.70	10.60	10.50	10.10
20.0				10.35	10.20	10.15	9.95	9.75	9.65	9.55	9.35	9.25	9.20	9.10	9.00	8.80	8.60
22.0				10.00/20.5	8.95	8.85	8.70	8.50	8.35	8.25	8.05	7.95	7.90	7.80	7.60	7.50	7.30
24.0					8.35/23.1	7.80	7.65	7.45	7.30	7.20	7.00	6.90	6.90	6.80	6.60	6.40	6.30
26.0						7.10/25.7	6.80	6.60	6.45	6.35	6.15	6.00	6.00	5.90	5.75	5.60	5.40
28.0							6.10	5.85	5.70	5.60	5.40	5.25	5.25	5.15	5.00	4.80	4.60
30.0							6.00/28.3	5.25	5.10	5.00	4.75	4.65	4.60	4.45	4.30	4.10	3.90
32.0								5.00/30.9	4.55	4.45	4.20	4.00	4.00	3.85	3.70	3.50	3.20
34.0									4.10/33.5	3.95	3.65	3.50	3.45	3.30	3.15	2.90	2.70
36.0										3.45	3.20	3.05	2.95	2.85	2.65	2.50	2.25
38.0										3.35/36.1	2.80	2.60	2.55	2.45	2.25	2.05	1.80
40.0											2.35/38.7	2.25	2.20	2.05	1.85	1.70	1.50/39.7
42.0												2.00/41.3	1.85	1.75	1.55	1.50/41.0	
44.0													1.55/43.9	1.50/43.5	1.50/42.2		

Notes — Liftcrane capacities

- Capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are in metric tons, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.
- Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
Hook block weight is as follows:
90t.....1.2ton 50t0.9ton 30t0.73ton
11t.....0.37ton
- All capacities are rated for 360° swing.
- Least stable rated condition is over the side.
- Counterweight must be 29.7ton for all capacities on this chart together with 2.0ton auxiliary weight (or opt. 3rd drum winch).
- Crawler side frame must be fully extended for all operating conditions.
- Attachment must be erected and lowered over the ends of the crawler mounting.
- Main boom length must not exceed 61.0m.
Maximum fly jib length permitted—28.0m.
Maximum boom and fly jib combination length permitted—49.0m+28.0m/52.0m+16.0m.
Maximum boom length when mounting auxiliary short jib is 55.0m.
- Capacities when handling load off main boom head sheaves in case of mounting fly jib or auxiliary short jib on top of boom are detailed; if required, please consult us or nearest distributor.
- Boom configurations when converting luffing towercrane boom to liftcrane att. shall be in accordance with the SCX900-2 Operation Manual.

MEMO

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- We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
- Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.

Address Inquires to: