

HITACHI SUMITOMO

# 6000SLX

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HYDRAULIC CRAWLER CRANE

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## Specifications

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# 6000SLX

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## Contents

<b>Specifications</b>	.....	3-4
<b>Symbols</b>	.....	4
<b>Outline</b>	■ Winch Assingment .....	5
	■ Dimensions & Main Specifications : Liftcrane .....	6
	■ Dimensions & Main Specifications : Luffing Tower .....	7
<b>Liftcrane Heavy Duty Boom</b>	■ Boom Combinations .....	8
	■ Working Range Diagram .....	9
	■ Capacities .....	10-11
	■ Notes .....	12-13
<b>Liftcrane Long Range Boom</b>	■ Boom Combinations .....	14
	■ Working Range Diagram .....	15
	■ Capacities .....	16-17
	■ Notes .....	18-19
<b>Heavy Duty Tip Extension</b>	■ Boom Combinations .....	20
	■ Working Range Diagram .....	21
	■ Capacities .....	22-23
	■ Notes .....	24
<b>Luffing Tower</b>	■ Boom Combinations .....	26-27
	■ Working Range Diagram .....	28-32
	■ Capacities .....	33-38
	■ Notes .....	39-40
<b>Transport Data</b>	.....	42-48
<b>Standard and Optional Equipment</b>	■ Standard Equipment .....	49
	■ Optional Equipment .....	50-51

## Specifications

### Engine

- Model : Isuzu 6WG1
- Type : 4-cycle, water-cooled, direct injection, turbo-charged, diesel engine
- Displacement : 15 681 cc
- Rated Output : 397 kW / 1 800 min<sup>-1</sup>  
(530 ps / 1 800 rpm)
- Fuel Tank : 800 liters
- Electrical System : 24 V D.C., 2 batteries

#### Notes:

- 1 Engine meets Stage / Tier 3 of current smoke emission regulations in Europe, United States and Japan.
- 2 The 397 kW engine horsepower shown above is based on an international engine horsepower rating formula that includes the horsepower necessary for engine alternator drive but excludes engine fan drive.

### Control

- Control System : Control levers operate remote-controlled hydraulic servos that direct oil through six sets of tandem valves to provide comprehensive motion control.
- Control Levers : Ergonomic lever layout enables efficient operation. Joystick lever on left side controls slewing and boom hoist. Arm-chair levers on right side control hoist 1 & 2, luffing, jib hoist, travel and long-mast hoist. Main winch levers are equipped with drum rotation sensors.
- Slewing Brake Pedal: Designed to be maintenance free while resisting overheating. Unique brake design of hydraulic oil control system makes it possible to smoothly initial slewing motion, even against the wind.
- Display Panel Design : Graphics on the display panel makes it easy to input the necessary operating conditions and data according to actual lifting and working conditions.

### Hydraulic System

Three variable-displacement axial piston pumps and one fixed-displacement tandem gear pump provide power for independent and combined operations for all functions.

- Hydraulic Reservoir Capacity : 800 liters

### Load Hoist Drums (W1, W2)

Independent bi-directional hydraulic motors provide power through a two-stage planetary reduction gear unit to drive the two main hoisting drums for hoisting and lowering operations.

Cables : 28mm dia. / 800 m long.

### Boom Hoist Drum (W3)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the boom.

Cables : 28 mm dia.

### Luffing Jib Hoist Drum (W4)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the luffing jib.

Cables : 28 mm dia.

## Specifications

### Slewing System

Slewing system is designed so that the three slewing pinions mesh with the external slewing ring gear. With this design, the external slewing gears bears the majority of the slewing torque. The system is designed to be easy to lubricate.

### Counterweight

Standard 160 ton counterweight consists of a 20-ton base weight and 14 cast iron block pieces that all have the same dimensions.

Optional 180-ton weight uses two additional weights in addition to standard counterweight.

### Lower Weight

50-ton weight is standard  
62-ton weight is optional

### Side Frames

All welded structures are manufactured from high-strength steel. Each component is equipped with two steel plate hooks to make assembling on lower frame lower. Side frame is secured by removable joint pins provided on the lower frame.

- Shoe width : 1 220 mm wide is standard.  
1 524 mm wide is optional.
- Drive unit : 2-track drive unit per side frame.

### Safety Device

- Load Moment Indicator (LMI) : The computerized system helps prevent overloads and provide safe and efficient control. Meets both EN and BS standards.
- Front-end Attachment. Erection Mode : This is an internal function of the Load Moment Indicator (LMI). It gives a warning on the LMI panel that the crane has extended beyond its intended working area. Once the work outside the intended working area is completed, the system returns automatically to resume work in the intended working range.
- Hydraulic Boom Backstops : These stops operate in conjunction with LMI to help prevent backward reaction, especially when operating with short boom lengths or against winds.
- Boom Over-hoist and Over-lowering Limiting Device : This is a combination of two systems designed to enhance operating efficiency. One system is a limit switch that is incorporated into the boom foot to prevent over hoisting. The other is a part of the LMI that prevents over-hoisting or over-lowering the boom. It includes automatic drum braking, hydraulic locks and alarm warnings.
- Drum Locks : Electrically operated pawl locks are provided as standard on all drums.

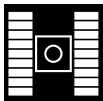
## Symbols



Capacity



Long Range Boom



Sideframes



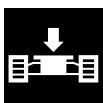
Luffing Jib



Counter Weight



Heavy Duty Tip Extension



Lower Weight



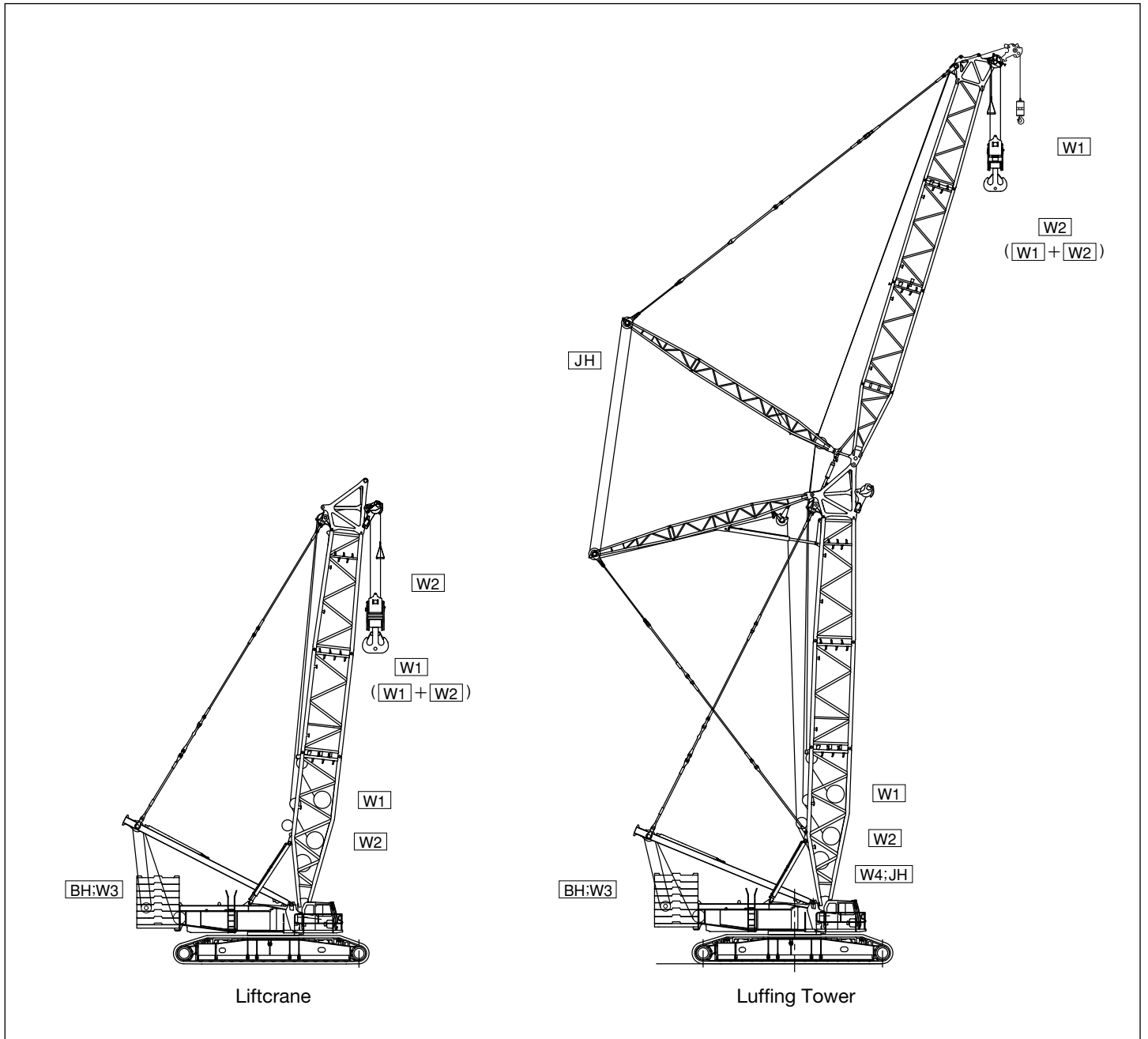
Working Radius



Heavy Duty Boom



## Winch Assingment



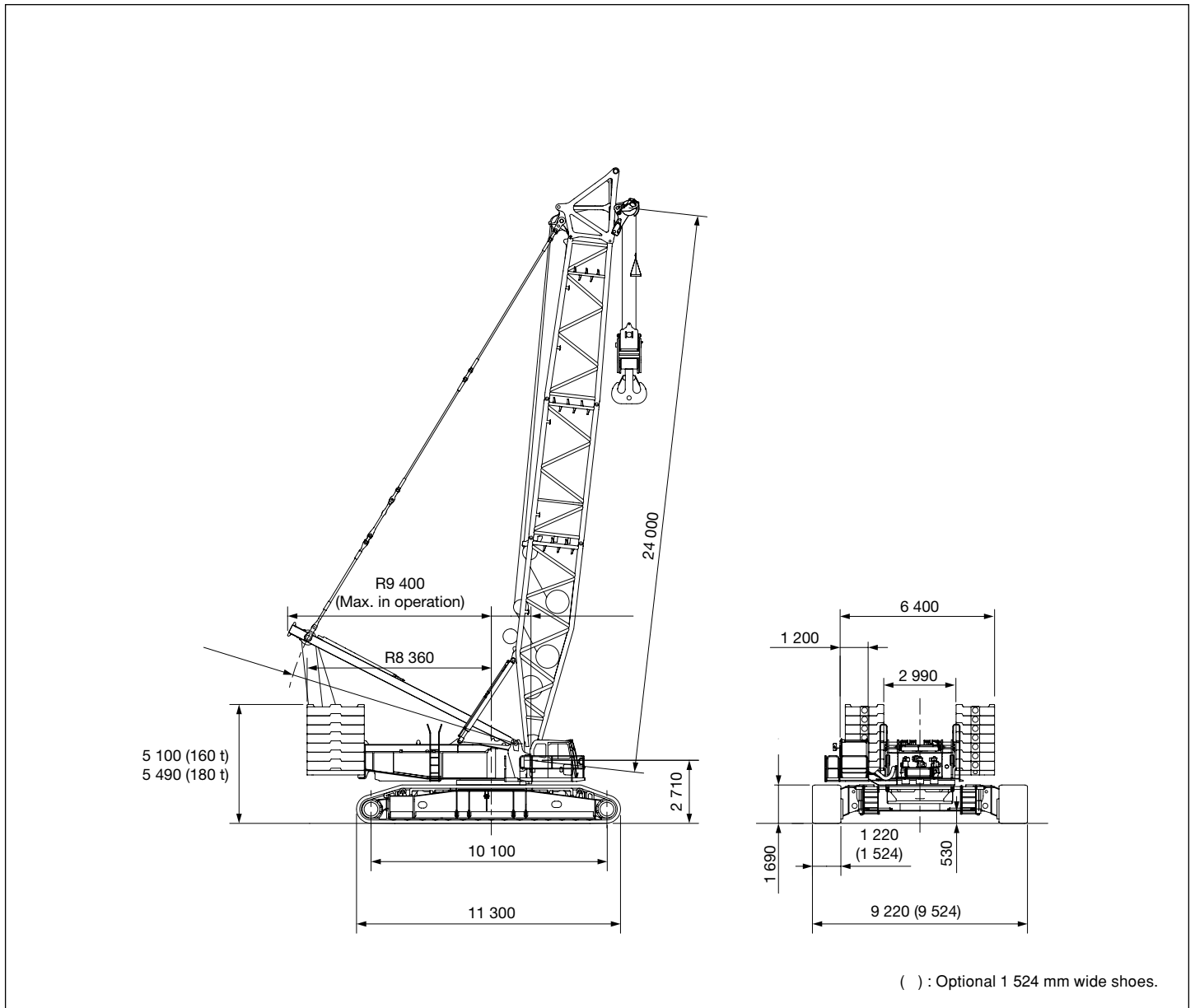
### Hook Blocks

Hook blocks		Mass (kg)
550 t	280 t hook block plus a ten sheaves equalizer block	12 500
280 t	Ten sheaves	7 000
320 t	160 t hook block plus an eight sheaves equalizer block	7 800
160 t	Five sheaves	4 000
65 t	Two sheaves	* 3 000 / 2 000
15 t	Ball hook	950

\* : with auxiliary weight / without auxiliary weight

## Dimensions & Main Specifications : Liftcrane

### ■ Dimensions : Liftcrane



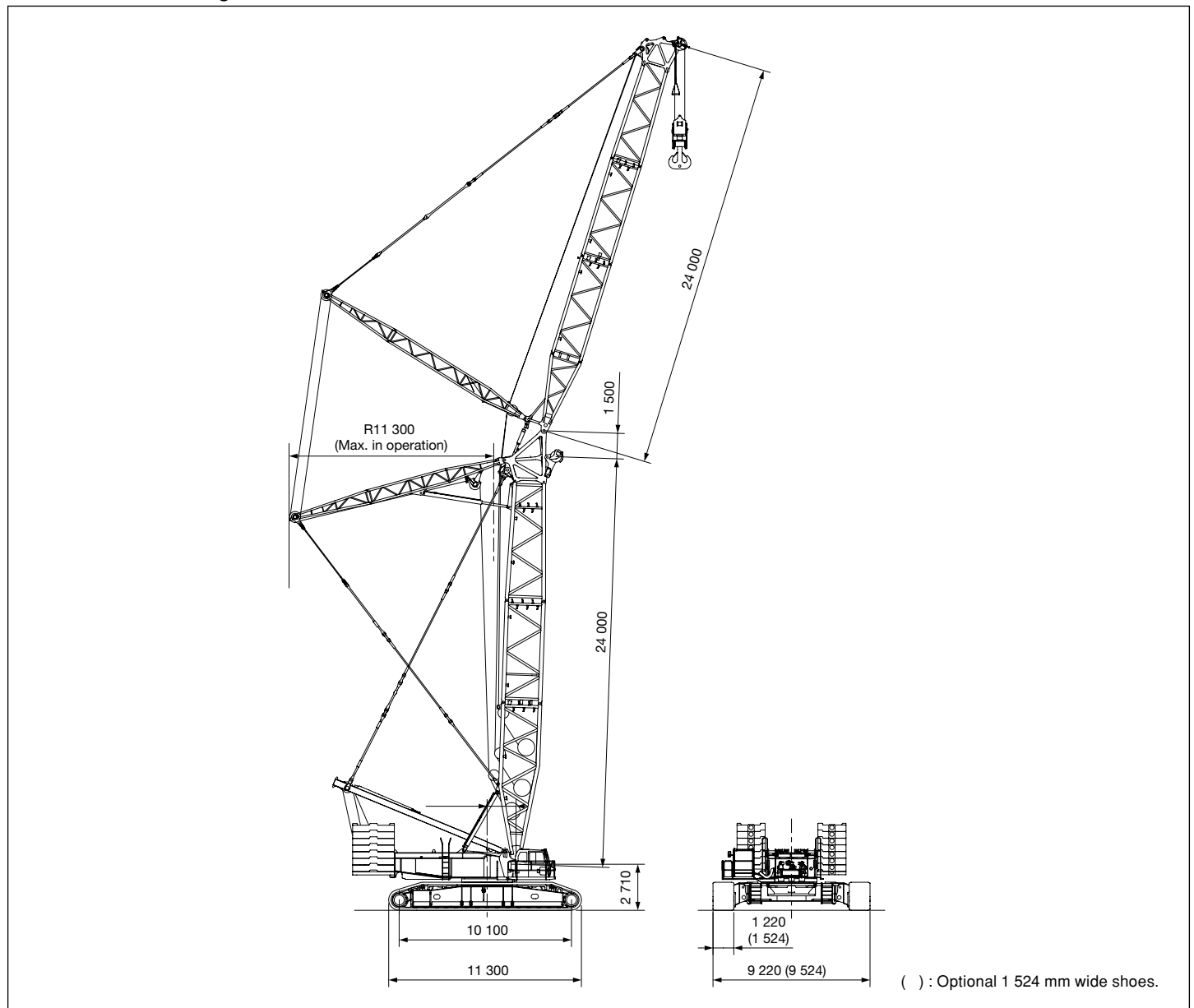
### ■ Main Spec. : Liftcrane

Front-end Attachment	Description		Spec.	
Liftcrane	Heavy Duty Boom	Max. lifting capacity	t X m	500 X 6.0
		Basic Boom Length	m	24
		Max. Boom Length	m	96
	Long Range Boom	Max. lifting capacity	t X m	250 X 10.0
		Basic Boom Length	m	42
		Max. Boom Length	m	108
	Line Speed	Load Hoist Drum : W1,W2	m / min	110
		Boom Hoist Drum : W3	m / min	42
	Slewing Speed		min <sup>-1</sup> (rpm)	1.0 (1.0)
	Travel Speed		km / hr	1.5 / 1.3 / 0.6
Ground Pressure*		kPa(kgf / cm <sup>2</sup> )	126 (1.28)	
Working Mass*		t	396	

\* : Including heavy duty basic boom, 550 t hook block, counterweight(160 t) and optional 1 524 mm wide shoes.

## Dimensions & Main Specifications : Luffing Tower

### ■ Dimensions : Luffing Tower




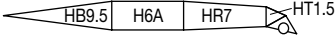
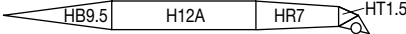
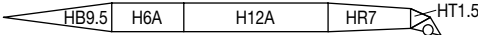
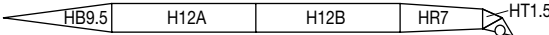

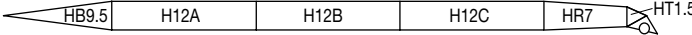
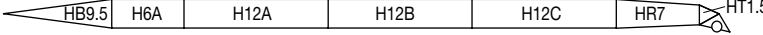



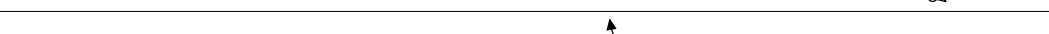
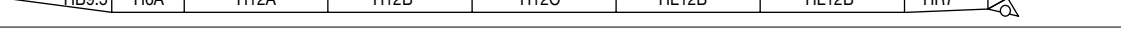
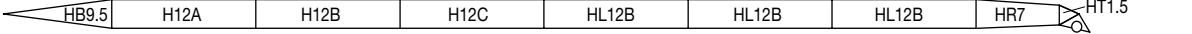
### ■ Main Spec. : Luffing Tower

Front-end Attachment	Description		Spec.
Luffing Tower	Max. lifting capacity		t X m
			210 X 13.0
	Basic Tower Length		m
			24
	Max. Tower Length		m
			72
	Basic Luffing Jib Length		m
			24
	Max. Luffing Jib Length		m
			72
	Max. Tower + Luffing Jib Length		m
			72+72
Line Speed	Load Hoist Drums : W1,W2		m / min
			110
	Tower Hoist Drum : W3		m / min
		42	
Luffing Jib Hoist Drum : W4		m / min	
		49	
Slewing Speed		min <sup>-1</sup> (rpm)	
		1.0 (1.0)	
Travel Speed		km / hr	
		1.5 / 1.3 / 0.6	
Ground Pressure*		kPa(kgf / cm <sup>2</sup> )	
		142 (1.45)	
Working Mass*		t	
		446	

\* : Including 72 m Tower + 72 m Luffing Jib, counterweight(160 t) and optional 1 524 mm wide shoes.

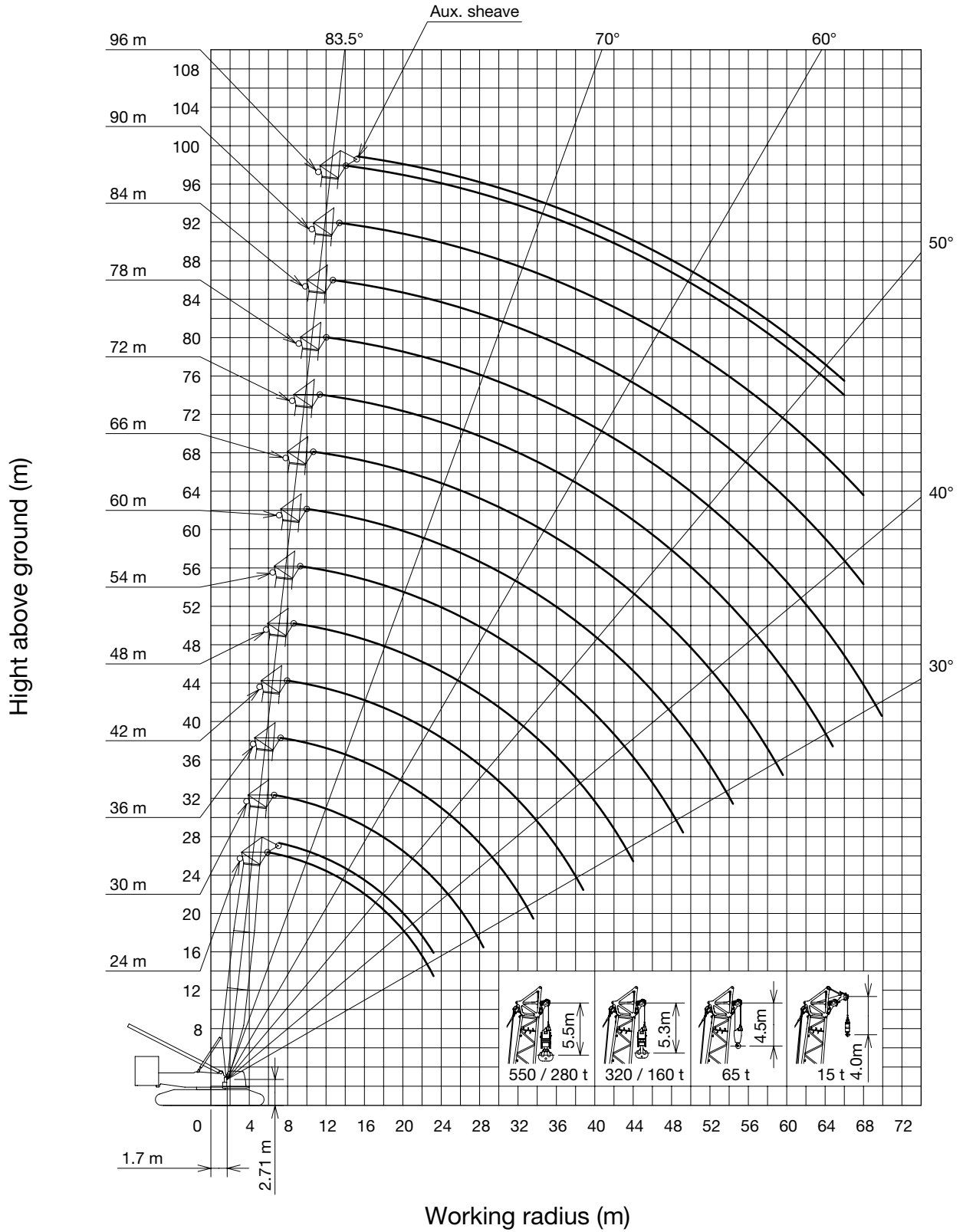


## Boom Combinations

	Boom Combinations
24 m	
30 m	
36 m	
42 m	
48 m	
54 m	
60 m	
66 m	
72 m	
78 m	
84 m	
90 m	
96 m	



Working Range Diagram





# Liftcrane : Heavy Duty Boom

# 6000SLX

## Capacities






160 t



50 t



(ton)

 (m)  (m)	 (m)													
	24	30	36	42	48	54	60	66	72	78	84	90	96	
6.0	500.0	462.8 / 6.6												
7.0	435.4	435.6	416.2 / 7.3											
8.0	376.3	376.5	374.2	350.2	298.4 / 8.7									
9.0	331.4	331.5	322.0	303.6	286.9	258.9 / 9.4								
10.0	296.0	296.2	282.0	267.5	254.1	241.7	230.2	204.8 / 10.7	182.1 / 11.4					
12.0	237.3	235.7	225.0	215.1	205.7	196.9	188.7	181.2	172.5	162.4 / 12.1	134.9 / 12.7	109.3 / 13.4		
14.0	185.0	185.0	184.7	178.9	171.8	165.2	158.8	153.1	146.1	141.5	132.1	108.3	91.3 / 14.1	
16.0	150.5	150.4	149.9	149.6	146.8	141.5	136.3	131.8	126.0	122.2	117.6	104.9	88.5	
18.0	126.0	125.8	125.3	124.9	124.4	123.1	118.8	115.0	110.0	106.9	103.0	100.0	85.6	
20.0	107.7	107.5	106.9	106.4	105.8	105.1	104.7	101.5	97.1	94.5	91.0	88.4	82.9	
22.0	93.6	93.3	92.6	92.1	91.4	90.7	90.2	89.9	86.5	84.1	81.0	78.7	75.7	
24.0	86.5 / 23.2	82.0	81.3	80.7	80.0	79.2	78.7	78.3	76.8	75.4	72.6	70.5	67.7	
26.0		72.9	72.0	71.4	70.6	69.8	69.2	68.9	67.4	67.4	65.3	63.4	60.9	
28.0		65.3	64.4	63.7	62.9	62.0	61.4	61.0	59.5	59.5	58.8	57.3	54.9	
30.0		63.9 / 28.4	57.9	57.2	56.3	55.4	54.8	54.3	52.9	52.8	52.1	52.0	49.7	
32.0			52.5	51.6	50.7	49.8	49.1	48.7	47.2	47.1	46.4	46.6	45.1	
34.0			48.7 / 33.6	46.9	45.9	45.0	44.2	43.7	42.3	42.2	41.4	41.6	40.4	
36.0				42.7	41.7	40.7	40.0	39.5	38.0	37.8	37.0	37.2	36.0	
38.0				39.1	38.0	37.0	36.2	35.7	34.3	34.0	33.2	33.3	32.1	
40.0				37.8 / 38.8	34.8	33.7	32.9	32.3	30.9	30.7	29.8	29.9	28.7	
42.0					31.9	30.8	29.9	29.4	27.9	27.7	26.8	26.8	25.6	
44.0					29.4	28.2	27.3	26.7	25.3	24.9	24.1	24.1	22.9	
46.0						25.9	24.9	24.3	22.9	22.5	21.6	21.6	20.4	
48.0						23.8	22.7	22.1	20.7	20.3	19.4	19.3	18.1	
50.0						22.7 / 49.2	20.8	20.1	18.7	18.3	17.3	17.3	16.0	
52.0							19.0	18.3	16.9	16.4	15.5	15.4	14.1	
54.0							17.4	16.7	15.2	14.7	13.8	13.7	12.4	
56.0							17.1 / 54.4	15.2	13.7	13.2	12.2	12.1	10.8	
58.0								13.8	12.3	11.7	10.8	10.6	9.3	
60.0								12.8 / 59.6	11.0	10.4	9.4	9.2	7.9	
62.0									9.8	9.2	8.2	7.9	6.7	
64.0									8.7	8.1	7.0	6.8	5.5	
66.0									8.3 / 64.8	7.0	5.9	5.6	5.0 / 64.9	
68.0										6.1	5.0 / 67.8	5.0 / 67.2		
69.9										5.2				

## Capacities

 180 t  62 t (OPT.)

(ton)

 (m)	24	30	36	42	48	54	60	66	72	78	84	90	96
 (m)	24	30	36	42	48	54	60	66	72	78	84	90	96
6.0	500.0	480.0 / 6.6											
7.0	452.4	452.6	433.7 / 7.3										
8.0	392.1	392.3	392.6	388.0	333.2 / 8.7								
9.0	345.3	345.5	345.7	339.0	320.5	289.5 / 9.4							
10.0	308.5	308.6	308.8	299.0	284.1	270.4	257.7	229.6 / 10.7	202.1 / 11.4				
12.0	254.2	254.3	251.8	240.8	230.5	220.8	211.7	203.4	194.0	162.4 / 12.1	134.9 / 12.7	109.3 / 13.4	
14.0	207.4	207.3	207.0	200.7	192.9	185.6	178.6	172.3	164.8	158.0	132.1	108.3	91.3 / 14.1
16.0	169.1	168.9	168.5	168.2	165.1	159.3	153.7	148.7	142.4	138.3	128.3	104.9	88.5
18.0	141.9	141.7	141.1	140.7	140.2	139.0	134.3	130.1	124.8	121.4	117.1	101.8	85.6
20.0	121.6	121.3	120.7	120.2	119.7	119.0	118.6	115.2	110.5	107.6	103.8	98.8	82.9
22.0	101.9	105.6	104.9	104.4	103.7	103.0	102.5	102.2	98.7	96.1	92.8	90.3	80.4
24.0	86.5 / 23.2	93.1	92.3	91.7	91.0	90.2	89.7	89.4	87.9	86.5	83.4	81.2	78.0
26.0		82.9	82.1	81.4	80.7	79.8	79.3	78.9	77.4	77.5	75.4	73.4	70.7
28.0		74.5	73.6	72.9	72.1	71.2	70.6	70.2	68.7	68.7	68.0	66.6	64.1
30.0		72.6 / 28.4	66.4	65.7	64.8	63.9	63.3	62.8	61.4	61.3	60.6	60.7	58.3
32.0			60.3	59.5	58.6	57.7	57.0	56.5	55.1	55.0	54.2	54.5	53.2
34.0			56.1 / 33.6	54.2	53.3	52.3	51.6	51.1	49.7	49.5	48.7	48.9	47.7
36.0				49.6	48.6	47.6	46.8	46.3	44.9	44.7	43.9	44.1	42.9
38.0				45.6	44.5	43.5	42.7	42.2	40.8	40.5	39.7	39.8	38.6
40.0				44.2 / 38.8	40.9	39.8	39.0	38.5	37.0	36.8	35.9	36.0	34.8
42.0					37.7	36.6	35.7	35.1	33.7	33.4	32.6	32.6	31.4
44.0					34.9	33.7	32.8	32.2	30.8	30.4	29.6	29.6	28.4
46.0						31.1	30.1	29.5	28.1	27.7	26.8	26.8	25.6
48.0						28.8	27.7	27.1	25.7	25.3	24.4	24.3	23.1
50.0						27.5 / 49.2	25.6	24.9	23.5	23.0	22.1	22.1	20.8
52.0							23.6	22.9	21.4	21.0	20.1	20.0	18.7
54.0							21.8	21.1	19.6	19.1	18.2	18.1	16.8
56.0							21.5 / 54.4	19.4	17.9	17.4	16.4	16.3	15.0
58.0								17.9	16.4	15.8	14.8	14.6	13.4
60.0								16.7 / 59.6	14.9	14.3	13.3	13.1	11.9
62.0									13.6	13.0	12.0	11.7	10.5
64.0									12.4	11.7	10.7	10.4	9.1
66.0									11.9 / 64.8	10.6	9.5	9.2	7.9
68.0										9.5	8.4	8.0	6.8
70.0										8.5 / 69.9	7.3	7.0	5.7
72.0											6.4	6.0	5.0 / 71.4
74.0											5.5	5.0	
75.1											5.0		



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations. ; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 2.0 ton mass of the auxiliary sheave and the mass of the "main hook" attached to the "boom" are deducted from the maximum rated load of the "Heavy Duty Boom Capacities." However, the maximum rated load of the auxiliary sheave is limited to 60 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "main hook" is the value remaining after the 2.0 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Heavy Duty Boom Capacities."
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)	Hook Weight (ton)	Maximum Rated Load ( ton )																				
		20 X 2Falls	19 X 2Falls	18 X 2Falls	17 X 2Falls	16 X 2Falls	15 X 2Falls	14 X 2Falls	13 X 2Falls	12 X 2Falls	11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls					
550	Double-Reeling	12.5	-	500	480	458	435	412	388	364	339	314	288	262	235	208	180	-	-	-	-	-
320	Double-Reeling	7.9	-	-	-	-	-	-	-	-	320	314	288	262	235	208	180	151	-	-	-	-
			20 Falls	19 Falls	18 Falls	17 Falls	16 Falls	15 Falls	14 Falls	13 Falls	12 Falls	11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	262	251	240	229	217	206	194	182	170	157	144	131	118	104	-	-	-	-	-	-
160	Single-Reeling	3.9	-	-	-	-	-	-	-	-	-	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton)/Boom Length (m)		24	30	36	42	48	54	60	66	72	78	84	90	96	
550	Double-Reeling	Max.	19 x 2	18 x 2	16 x 2	14 x 2	12 x 2	11 x 2	9 x 2	8 x 2	7 x 2	6 x 2	-	-	-
		Min.	12 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2			
320	Double-Reeling	Max.	12 x 2	12 x 2	12 x 2	12 x 2	12 x 2	11 x 2	9 x 2	8 x 2	7 x 2	6 x 2	5 x 2	5 x 2	-
		Min.	12 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	-
280	Single-Reeling	Max.	-	20	19	17	14	13	11	10	9	8	8	7	7
		Min.	-	7	7	7	7	7	7	7	7	7	7	7	7
160	Single-Reeling	Max.	-	11	11	11	11	11	11	10	9	8	8	7	7
		Min.	-	5	5	5	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	-	5	5	5	5	5	5	5	5	5	5	5	5
		Min.	-	2	2	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-	-	-	



## Notes

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed. Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls	12 Falls	13 Falls	14 Falls	15 Falls	16 Falls	17 Falls	18 Falls	19 Falls	20 Falls
24 m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
36 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	-
42 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	-	-	-
48 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	-	-	-	-	-	-
54 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	-	-	-	-	-	-	-
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1	-	-	-	-	-	-	-	-	-
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	-	-	-	-	-	-	-	-	-	-
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-	-	-	-	-	-	-	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-

11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.

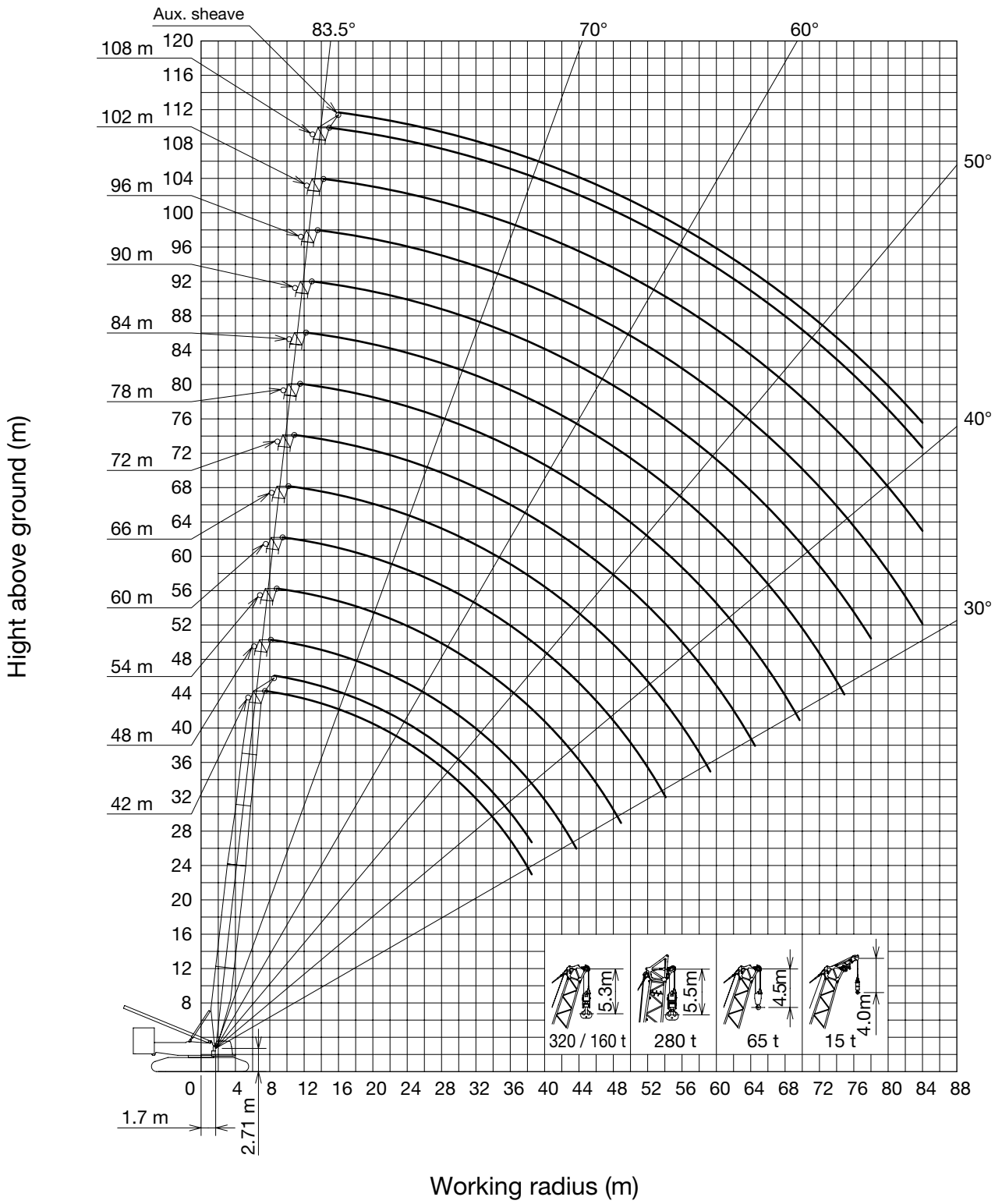
Boom Length (m)	24	30	36	42	48	54	60	66	72	78	84	90	96
Equivalent Mass (ton)	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.5



## Boom Combinations

	Boom Combinations
42 m	
48 m	
54 m	
60 m	
66 m	
72 m	
78 m	
84 m	
90 m	
96 m	
102 m	
108 m	

Working Range Diagram





# Liftcrane : Long Range Boom

# 6000SLX

## Capacities



160 t



50 t



(ton)

L (m) L (m)	42	48	54	60	66	72	78	84	90	96	102	108
	7.5	250.0										
8	250.0	250.0 / 8.2	250.0 / 8.9									
9	250.0	250.0	250.0	235.0 / 9.5								
10	250.0	250.0	247.9	227.9	190.6 / 10.2	171.4 / 10.9	150.0 / 11.6					
12	220.7	211.3	203.3	195.3	186.6	168.3	149.3	118.0 / 12.3	104.0 / 12.9	93.5 / 13.6		
14	184.7	177.6	171.7	165.6	159.4	153.3	143.5	118.0	104.0	92.8	76.8 / 14.3	68.2 / 15.0
16	155.9	152.6	148.1	143.2	138.2	133.2	129.6	118.0	102.5	89.2	74.1	66.6
18	131.2	130.3	129.8	125.8	121.6	117.3	114.3	110.5	97.5	85.8	71.0	63.7
20	112.7	111.8	111.5	111.1	108.2	104.5	102.0	98.6	91.7	82.7	68.2	60.9
22	98.4	97.4	97.2	96.7	96.0	93.9	91.7	88.7	86.1	79.8	65.3	58.4
24	87.0	86.0	85.7	85.2	84.5	83.7	83.1	80.4	78.5	75.6	63.1	55.9
26	77.7	76.7	76.3	75.8	75.1	74.3	74.5	73.2	71.5	68.9	60.8	53.7
28	70.0	68.9	68.6	68.0	67.3	66.5	66.6	65.8	65.5	63.0	58.6	51.6
30	63.5	62.4	62.0	61.4	60.8	59.9	60.0	59.2	59.1	57.8	56.4	49.8
32	57.9	56.8	56.4	55.8	55.1	54.2	54.3	53.5	53.4	52.4	51.9	48.0
34	53.1	52.0	51.6	50.9	50.2	49.3	49.4	48.6	48.4	47.5	47.3	45.9
36	48.9	47.7	47.3	46.7	46.0	45.1	45.1	44.3	44.1	43.1	43.0	42.2
38	45.2	44.0	43.6	42.9	42.2	41.3	41.3	40.5	40.3	39.3	39.2	38.3
40	44.4 / 38.5	40.8	40.3	39.6	38.9	38.0	37.9	37.1	36.9	35.9	35.8	34.9
42		37.9	37.4	36.7	36.0	35.0	34.9	34.1	33.9	32.9	32.7	31.9
44		35.7 / 43.7	34.8	34.0	33.3	32.3	32.3	31.4	31.2	30.2	30.0	29.1
46			32.5	31.7	30.9	29.9	29.8	29.0	28.7	27.7	27.5	26.7
48			30.3	29.5	28.8	27.7	27.6	26.8	26.5	25.5	25.3	24.4
50			29.5 / 48.9	27.6	26.8	25.7	25.6	24.7	24.5	23.5	23.2	22.4
52				25.8	25.0	23.9	23.8	22.9	22.6	21.6	21.3	20.5
54				24.2	23.4	22.3	22.1	21.2	20.9	19.9	19.6	18.8
56				24.1 / 54.1	21.9	20.7	20.5	19.6	19.3	18.3	18.0	17.2
58					20.5	19.3	19.1	18.2	17.9	16.9	16.6	15.7
60					19.7 / 59.3	18.0	17.8	16.9	16.6	15.5	15.2	14.3
62						16.8	16.6	15.6	15.3	14.2	13.9	13.1
64						15.8	15.4	14.5	14.1	13.1	12.8	11.9
66						15.5 / 64.5	14.4	13.4	13.1	12.0	11.7	10.8
68							13.4	12.4	12.1	11.0	10.6	9.7
70							12.6 / 69.7	11.5	11.1	10.0	9.7	8.8
72								10.6	10.2	9.1	8.8	7.8
74								9.8	9.4	8.3	7.9	7.0
76								9.5 / 74.9	8.6	7.5	7.1	6.2
78									7.9	6.8	6.4	5.4
80									7.2	6.1	5.7	5.0 / 79.1
82									7.2 / 80.1	5.4	5.0	
83.3										5.0		

## Capacities

 180 t  62 t (OPT.)

(ton)

 (m)	42	48	54	60	66	72	78	84	90	96	102	108
 (m)												
7.5	250.0											
8.0	250.0	250.0 / 8.2	250.0 / 8.9									
9.0	250.0	250.0	250.0	235.0 / 9.5								
10.0	250.0	250.0	250.0	227.9	190.6 / 10.2	171.4 / 10.9	150.0 / 11.6					
12.0	246.5	236.1	216.9	198.1	186.6	168.3	149.3	118.0 / 12.3	104.0 / 12.9	93.5 / 13.6		
14.0	206.5	198.6	188.7	173.3	178.6	163.8	143.5	118.0	104.0	92.8	76.8 / 14.3	68.2 / 15.0
16.0	174.5	171.0	165.9	152.8	155.1	149.7	135.4	118.0	102.5	89.2	74.1	66.6
18.0	147.1	146.2	145.6	135.9	136.7	132.1	128.0	118.0	97.5	85.8	71.0	63.7
20.0	126.6	125.6	125.4	121.8	121.9	117.9	115.1	111.5	91.7	82.7	68.2	60.9
22.0	110.7	109.7	109.5	109.0	108.3	106.1	103.7	100.5	86.1	79.8	65.3	58.4
24.0	98.1	97.1	96.8	96.2	95.6	94.8	94.1	91.2	80.8	76.9	63.1	55.9
26.0	87.8	86.7	86.4	85.9	85.2	84.4	84.5	83.3	75.8	74.3	60.8	53.7
28.0	79.2	78.1	77.8	77.2	76.5	75.7	75.8	75.0	71.1	71.9	58.6	51.6
30.0	72.0	70.9	70.5	69.9	69.2	68.4	68.5	67.7	66.9	66.4	56.9	49.8
32.0	65.8	64.7	64.3	63.7	63.0	62.1	62.2	61.4	61.3	60.3	54.8	48.0
34.0	60.5	59.3	58.9	58.3	57.6	56.7	56.7	55.9	55.8	54.8	53.1	46.3
36.0	55.8	54.6	54.2	53.6	52.9	51.9	52.0	51.2	51.0	50.0	49.9	44.7
38.0	51.7	50.5	50.1	49.4	48.7	47.8	47.8	47.0	46.8	45.8	45.6	43.4
40.0	50.8 / 38.5	46.9	46.5	45.8	45.0	44.1	44.1	43.2	43.0	42.1	41.9	41.0
42.0		43.7	43.2	42.5	41.8	40.8	40.7	39.9	39.7	38.7	38.5	37.7
44.0		41.2 / 43.7	40.3	39.5	38.8	37.8	37.8	36.9	36.7	35.7	35.5	34.6
46.0			37.7	36.9	36.2	35.1	35.1	34.2	34.0	33.0	32.7	31.9
48.0			35.3	34.5	33.8	32.7	32.6	31.8	31.5	30.5	30.3	29.4
50.0			34.4 / 48.9	32.4	31.6	30.5	30.4	29.5	29.3	28.2	28.0	27.1
52.0				30.4	29.6	28.5	28.3	27.5	27.2	26.2	25.9	25.1
54.0				28.6	27.8	26.7	26.5	25.6	25.3	24.3	24.0	23.1
56.0				28.5 / 54.1	26.1	25.0	24.8	23.9	23.6	22.5	22.3	21.4
58.0					24.6	23.4	23.2	22.3	22.0	20.9	20.6	19.8
60.0					23.6 / 59.3	22.0	21.7	20.8	20.5	19.4	19.1	18.2
62.0						20.6	20.3	19.4	19.1	18.0	17.7	16.8
64.0						19.4	19.1	18.2	17.8	16.7	16.4	15.5
66.0						19.1 / 64.5	17.9	17.0	16.6	15.5	15.2	14.3
68.0							16.8	15.9	15.5	14.4	14.1	13.2
70.0							16.0 / 69.7	14.8	14.4	13.3	13.0	12.1
72.0								13.9	13.5	12.4	12.0	11.1
74.0								13.0	12.5	11.4	11.1	10.1
76.0								12.6 / 74.9	11.7	10.5	10.2	9.2
78.0									10.9	9.7	9.3	8.4
80.0									10.1	8.9	8.5	7.6
82.0									10.1 / 80.1	8.2	7.8	6.8
84.0										7.5	7.1	6.1
86.0										7.1 / 85.3	6.4	5.4
88.0											5.8	5.0 / 87.3
90.0											5.2	
90.5											5.0	



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations. ; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the "main hook" attached to the "boom" are deducted from the maximum rated load of the "Long Range Boom Capacities." However, the maximum rated load of the auxiliary sheave is limited to 30 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "main hook" is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Long Range Boom Capacities."
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )										
			11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls				
320	Double-Reeling	7.9	-	-	250	235	208	180	151	-	-	-	-
			11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	157	144	131	118	104	90	-	-	-	-	
160	Single-Reeling	3.9	157	144	131	118	104	90	76	-	-	-	
65	Single-Reeling	3.0	-	-	-	-	-	-	65	61	46	31	
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton)/Boom Length (m)		42	48	54	60	66	72	78	84	90	96	102	108
320	Double-Reeling	Max.	9 x 2	9 x 2	9 x 2	8 x 2	7 x 2	6 x 2	5 x 2	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2				
280	Single-Reeling	Max.	11	11	11	11	10	9	8	8	7	7	6
		Min.	6	6	6	6	6	6	6	6	6	6	6
160	Single-Reeling	Max.	11	11	11	11	10	9	8	8	7	7	6
		Min.	5	5	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-	-

## Notes

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed.

Please select a hook that can be lowered based on the boom length and number of windings.


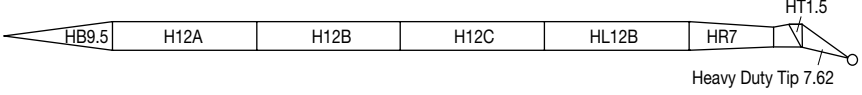
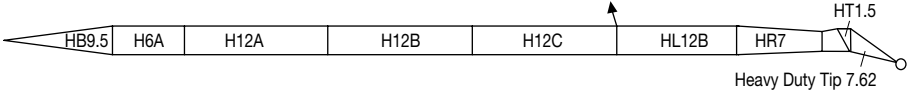
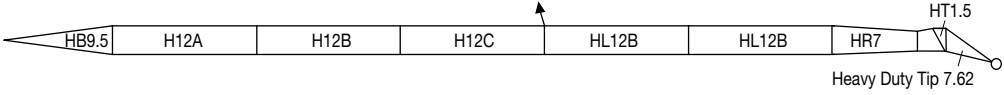

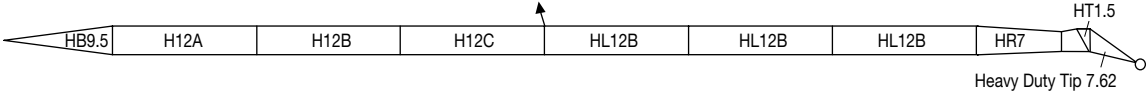
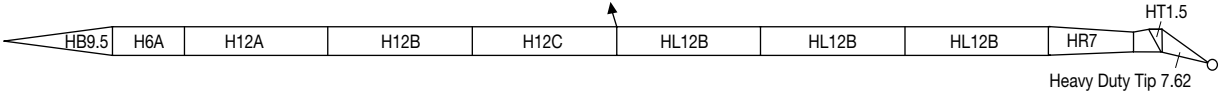
Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls	12 Falls	13 Falls
42 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0
48 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0
54 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1	7.0	7.0
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	4.5	7.0	-
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	4.4	4.9	-	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	4.2	-	-	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	-	-	-	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	-	-	-	-	-	-	-
102 m	-	2.0	2.0	2.3	3.0	-	-	-	-	-	-	-	-
108 m	-	2.0	2.0	2.5	-	-	-	-	-	-	-	-	-

11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.

Boom Length (m)	42	48	54	60	66	72	78	84	90	96	102	108
Equivalent Mass (ton)	0.5	0.8	0.7	0.9	0.8	1.0	0.9	1.1	1.1	1.3	1.2	1.4



## Boom Combinations

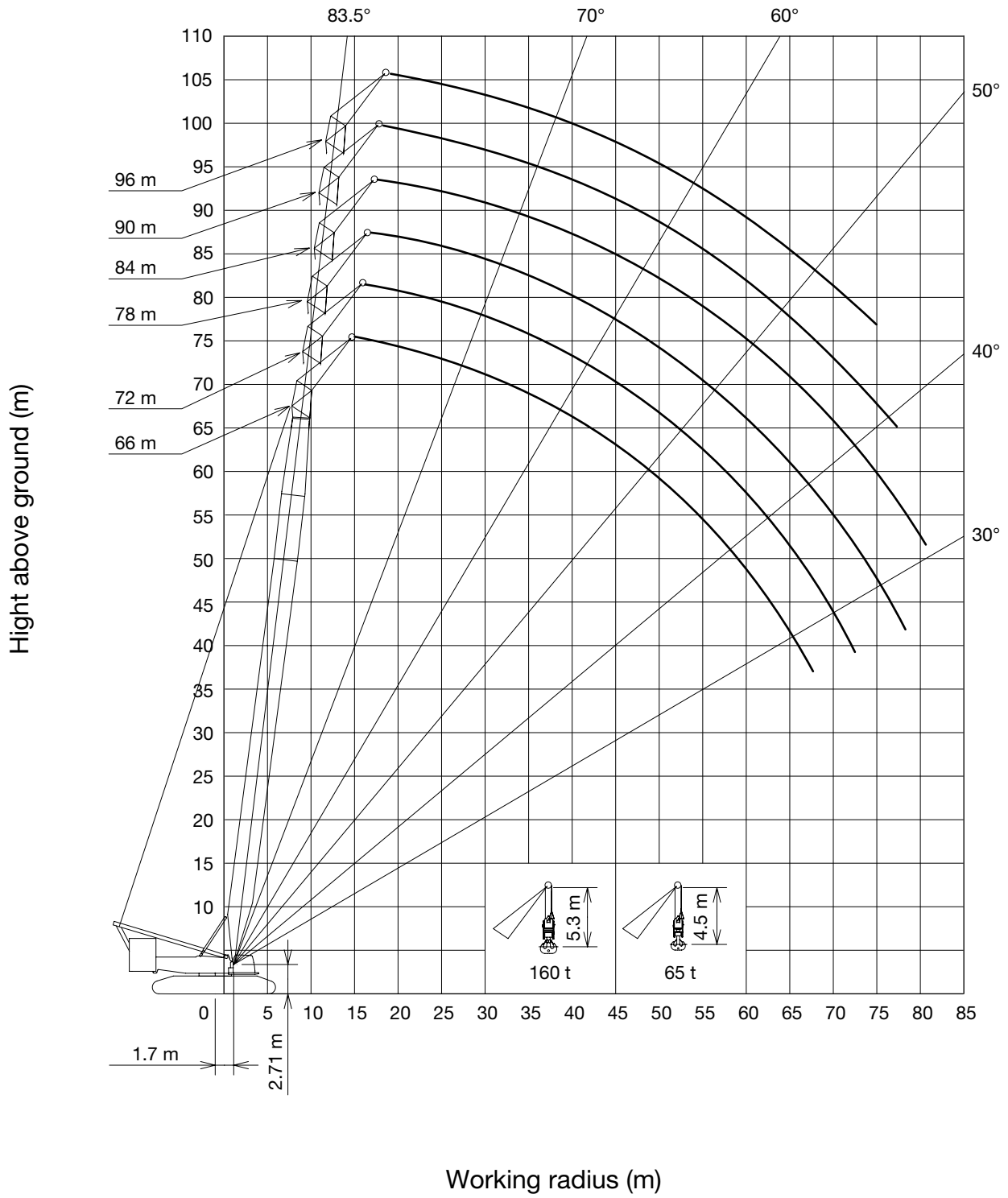
	Boom Combinations
66 m	
72 m	
78 m	
84 m	
90 m	
96 m	





Working Range Diagram

単位: mm





# Heavy Duty Tip Extension

# 6000SLX

## Capacities




160 t



50 t

(ton)

 (m)						
	66	72	78	84	90	96
14.0	100.0 / 14.7	100.0 / 15.3				
16.0	100.0	100.0	100.0	100.0 / 16.7	100.0 / 17.4	
18.0	100.0	100.0	100.0	100.0	98.0	83.2 / 18.1
20.0	100.0	98.8	97.9	93.6	92.6	80.4
22.0	92.0	88.6	87.7	83.9	82.9	73.9
24.0	83.0	82.2	79.0	75.7	74.7	68.2
26.0	75.2	74.4	71.6	68.6	67.6	63.0
28.0	67.6	67.2	65.2	62.4	61.4	58.5
30.0	60.7	60.2	59.5	57.0	56.0	53.5
32.0	54.8	54.2	53.5	52.6	51.2	48.9
34.0	49.6	49.0	48.3	47.4	46.6	44.7
36.0	45.2	44.5	43.8	42.8	42.0	41.0
38.0	41.2	40.5	39.8	38.8	38.0	37.0
40.0	37.7	36.9	36.2	35.2	34.4	33.4
42.0	34.6	33.8	33.0	32.0	31.2	30.1
44.0	31.7	30.9	30.2	29.1	28.3	27.2
46.0	29.2	28.3	27.6	26.5	25.7	24.6
48.0	26.9	26.0	25.2	24.1	23.3	22.2
50.0	24.7	23.8	23.1	22.0	21.2	20.1
52.0	22.8	21.9	21.1	20.0	19.2	18.1
54.0	21.0	20.1	19.3	18.2	17.3	16.2
56.0	19.4	18.4	17.6	16.5	15.7	14.5
58.0	17.8	16.9	16.1	15.0	14.1	13.0
60.0	16.4	15.4	14.7	13.5	12.7	11.5
62.0	15.1	14.1	13.3	12.2	11.3	10.2
64.0	13.9	12.9	12.1	10.9	10.1	8.9
66.0	12.7	11.7	10.9	9.8	8.9	7.7
68.0	11.6	10.6	9.8	8.7	7.8	6.6
70.0	11.6 / 68.1	9.6	8.8	7.7	6.8	5.6
72.0		8.7	7.9	6.7	5.8	5.0 / 71.3
74.0		8.1 / 73.3	7.0	5.8	5.0 / 73.8	
76.0			6.1	5.0 / 75.8		
78.0			5.3			
78.5			5.1			

## Capacities





180 t



62 t (OPT.)

(ton)

 (m)	66	72	78	84	90	96
	 (m)					
14.0	100.0 / 14.7	100.0 / 15.3				
16.0	100.0	100.0	100.0	100.0 / 16.7	98.0 / 17.4	
18.0	100.0	100.0	100.0	100.0	98.0	83.2 / 18.1
20.0	100.0	100.0	100.0	100.0	97.9	80.4
22.0	100.0	100.0	99.4	95.4	92.8	73.9
24.0	94.1	93.3	89.9	86.3	85.2	68.2
26.0	85.6	84.8	81.7	78.4	77.4	63.0
28.0	76.9	76.5	74.6	71.6	70.6	58.5
30.0	69.3	68.8	68.1	65.7	64.6	54.3
32.0	62.8	62.2	61.5	60.6	59.3	50.6
34.0	57.1	56.5	55.8	54.8	54.1	47.2
36.0	52.2	51.5	50.8	49.8	49.0	44.1
38.0	47.8	47.0	46.3	45.3	44.6	41.2
40.0	43.9	43.1	42.4	41.4	40.6	38.6
42.0	40.4	39.6	38.9	37.9	37.1	36.0
44.0	37.3	36.5	35.7	34.7	33.9	32.8
46.0	34.5	33.6	32.9	31.8	31.0	29.9
48.0	31.9	31.0	30.3	29.2	28.4	27.3
50.0	29.6	28.7	27.9	26.8	26.0	24.9
52.0	27.4	26.5	25.8	24.6	23.8	22.7
54.0	25.5	24.5	23.8	22.6	21.8	20.7
56.0	23.6	22.7	21.9	20.8	20.0	18.8
58.0	22.0	21.0	20.2	19.1	18.2	17.1
60.0	20.4	19.4	18.6	17.5	16.7	15.5
62.0	18.9	17.9	17.2	16.0	15.2	14.0
64.0	17.6	16.6	15.8	14.6	13.8	12.6
66.0	16.3	15.3	14.5	13.4	12.5	11.3
68.0	15.1	14.1	13.3	12.2	11.3	10.1
70.0	15.1 / 68.1	13.0	12.2	11.0	10.2	9.0
72.0		11.9	11.1	10.0	9.1	7.9
74.0		11.3 / 73.3	10.1	9.0	8.1	6.9
76.0			9.2	8.0	7.2	6.0
78.0			8.3	7.1	6.3	5.1
80.0			8.1 / 78.5	6.3	5.4	5.0 / 78.2
82.0				5.5	5.0 / 81.1	
83.4				5.0		



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13000 Standards in terms of machine stability and structural strength limitations. ; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the mass of the “main hook” attached to the “Heavy Duty Auxiliary Tip Extension” are deducted from the maximum rated load of the “Heavy Duty Auxiliary Tip Extension Capacities.” However, the maximum rated load of the auxiliary sheave is limited to 15 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary hook is attached to the Auxiliary sheave, the maximum rated load of the “main hook” is the value remaining after the mass of the auxiliary hook are deducted from the maximum rated load of the “Heavy Duty Auxiliary Tip Extension Capacities.”
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )						
			7 X 2 Falls	6 X 2 Falls	5 X 2 Falls	4 X 2 Falls	3 X 2 Falls	2 X 2 Falls	1 X 2 Falls
160	Single-Reeling	3.9	100	90	76	-	-	-	-
65	Single-Reeling	*3.0 / 2.0	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-

\* : With auxiliary weights / Without auxiliary weights

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton) / Boom Length (m)		66	72	78	84	90	96
160	Single-Reeling	Max.	7	7	7	7	6
		Min.	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5
		Min.	2	2	2	2	2
15	Single-Reeling	-	-	-	-	-	-

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed. Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls
66 m	1.0	2.0	2.0	2.0	2.0	3.9	3.9
72 m	1.0	2.0	2.0	2.0	2.1	3.9	3.9
78 m	1.0	2.0	2.0	2.0	2.3	3.9	3.9
84 m	1.0	2.0	2.0	2.0	2.4	3.9	3.9
90 m	1.0	2.0	2.0	2.1	2.6	3.9	3.9
96 m	1.0	2.0	2.0	2.2	2.8	3.9	4.0



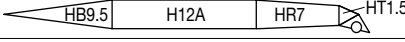
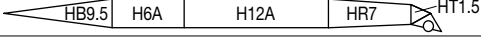


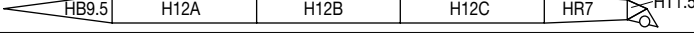
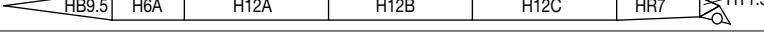
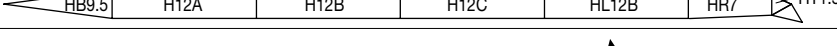
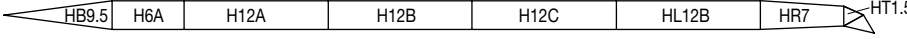
11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.


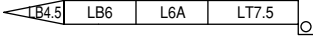
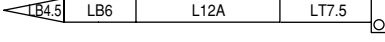
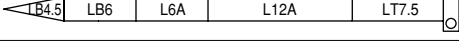
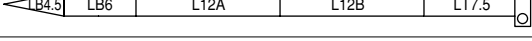
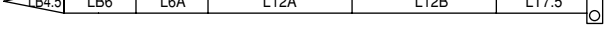
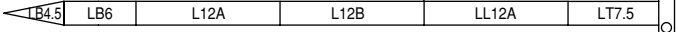
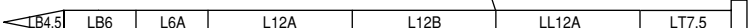

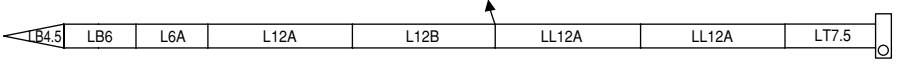
Boom Length (m)	66	72	78	84	90	96
Equivalent Mass (ton)	2.2	2.5	2.7	3.0	3.2	3.5







## Boom Combinations

	Boom Combinations
24 m	
30 m	
36 m	
42 m	
48 m	
54 m	
60 m	
66 m	
72 m	

	Jib Combinations
24 m	
30 m	
36 m	
42 m	
48 m	
54 m	
60 m	
66 m	
72 m	

## Boom Combinations

	24 m	30 m	36 m	42 m	48 m	54 m	60 m	66 m	72 m
									
24 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
30 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
36 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
42 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
48 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
54 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
60 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○
66 m	×	⊙	⊙	⊙	⊙	⊙	○	○	○
72 m	×	×	⊙	⊙	⊙	⊙	○	○	○

\*The above-mentioned signs are as follows.

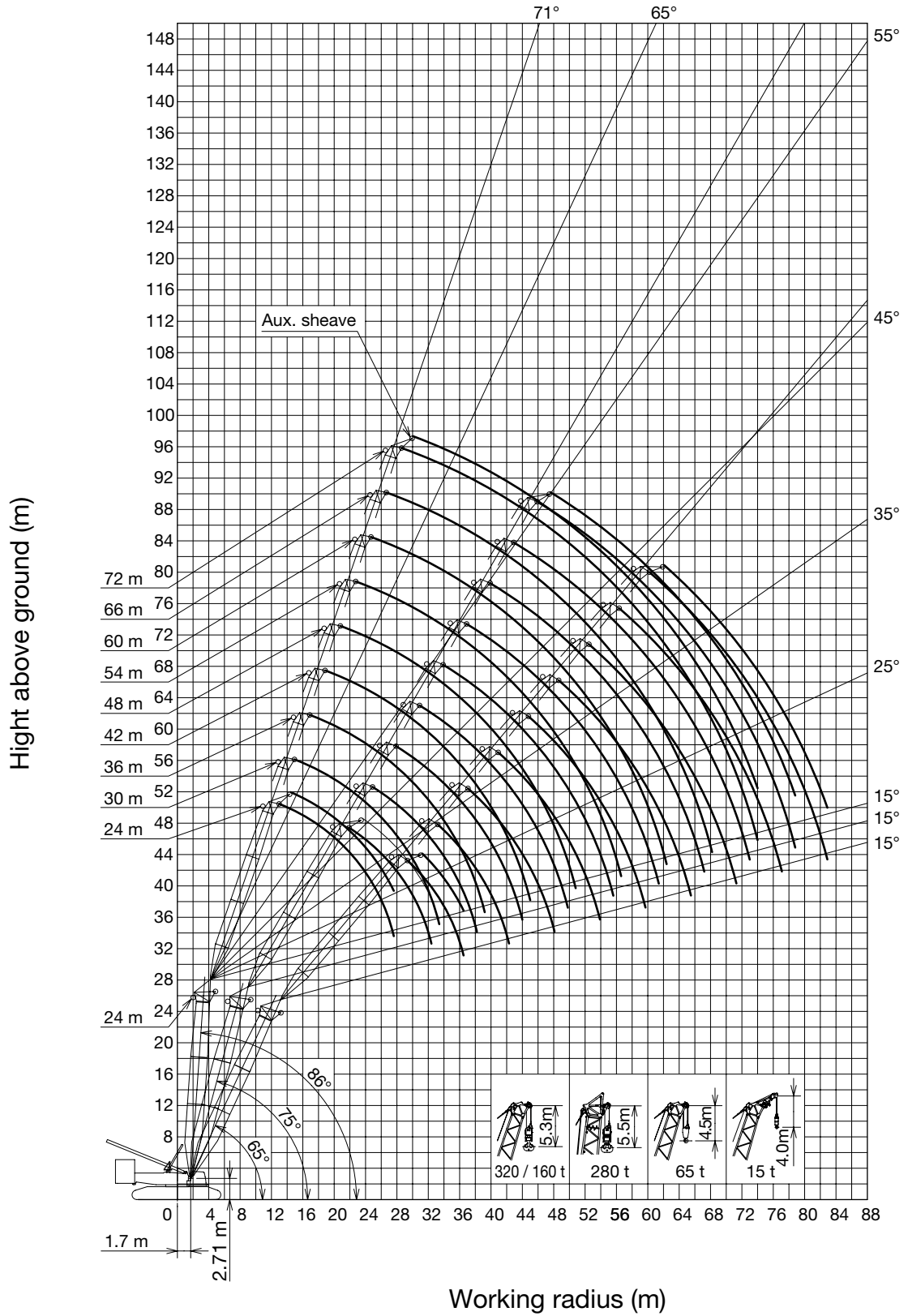
⊙ : Possible at 86° - 65° ○ : Possible at 86° - 75° × : No setting



## Working Range Diagram




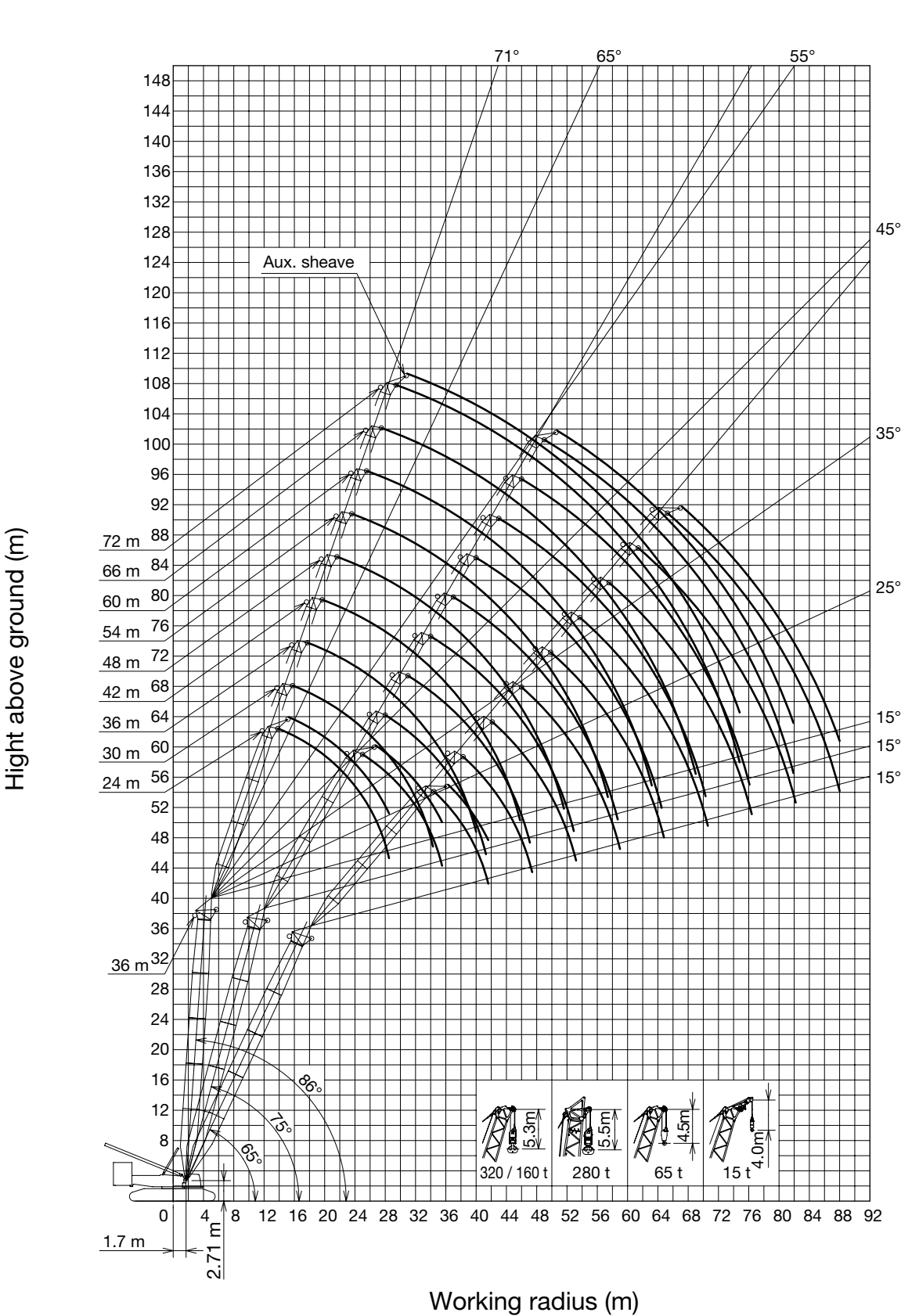
Tower length 24 m





# Working Range Diagram

 Tower length 36 m

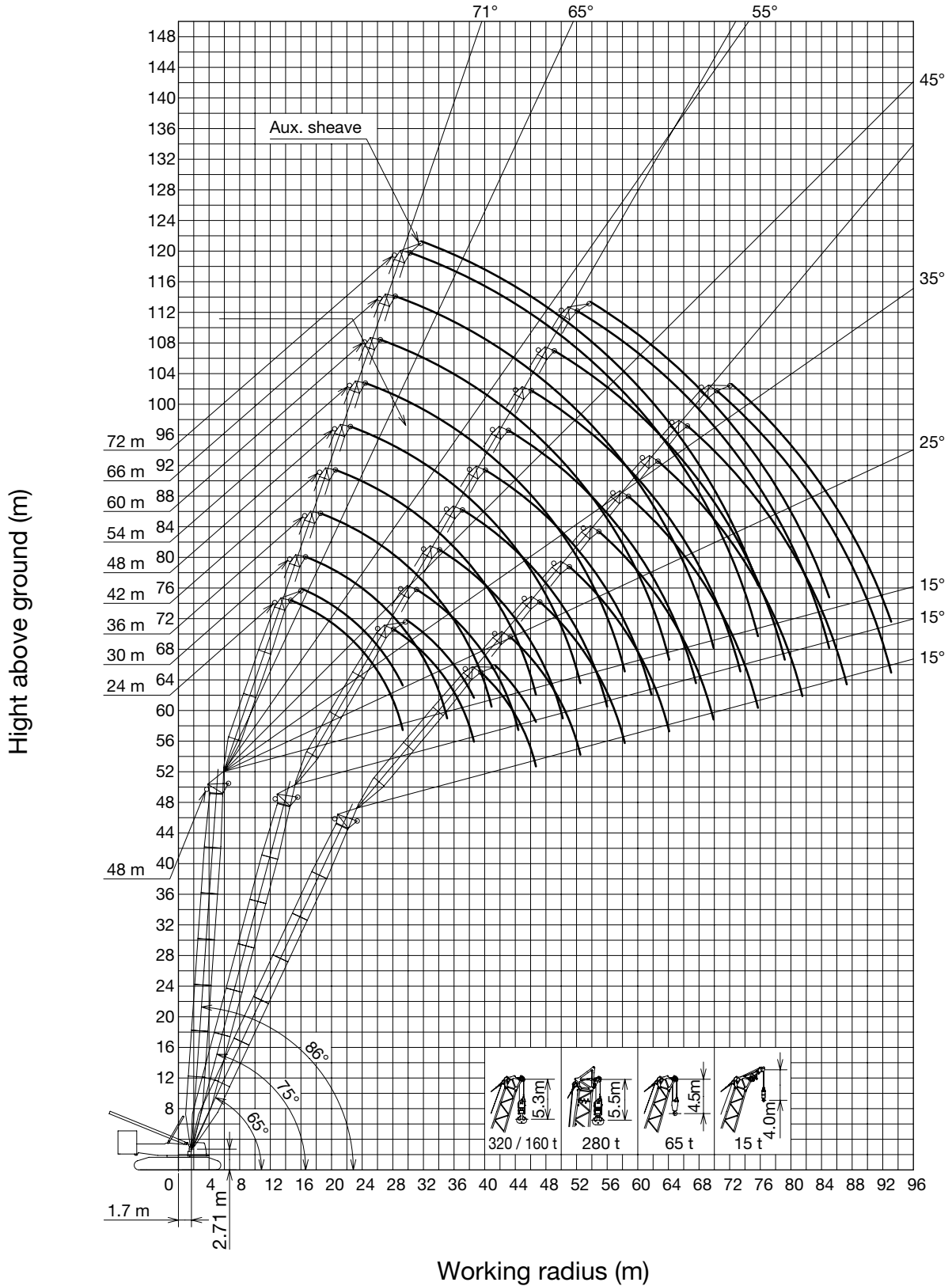





## Working Range Diagram

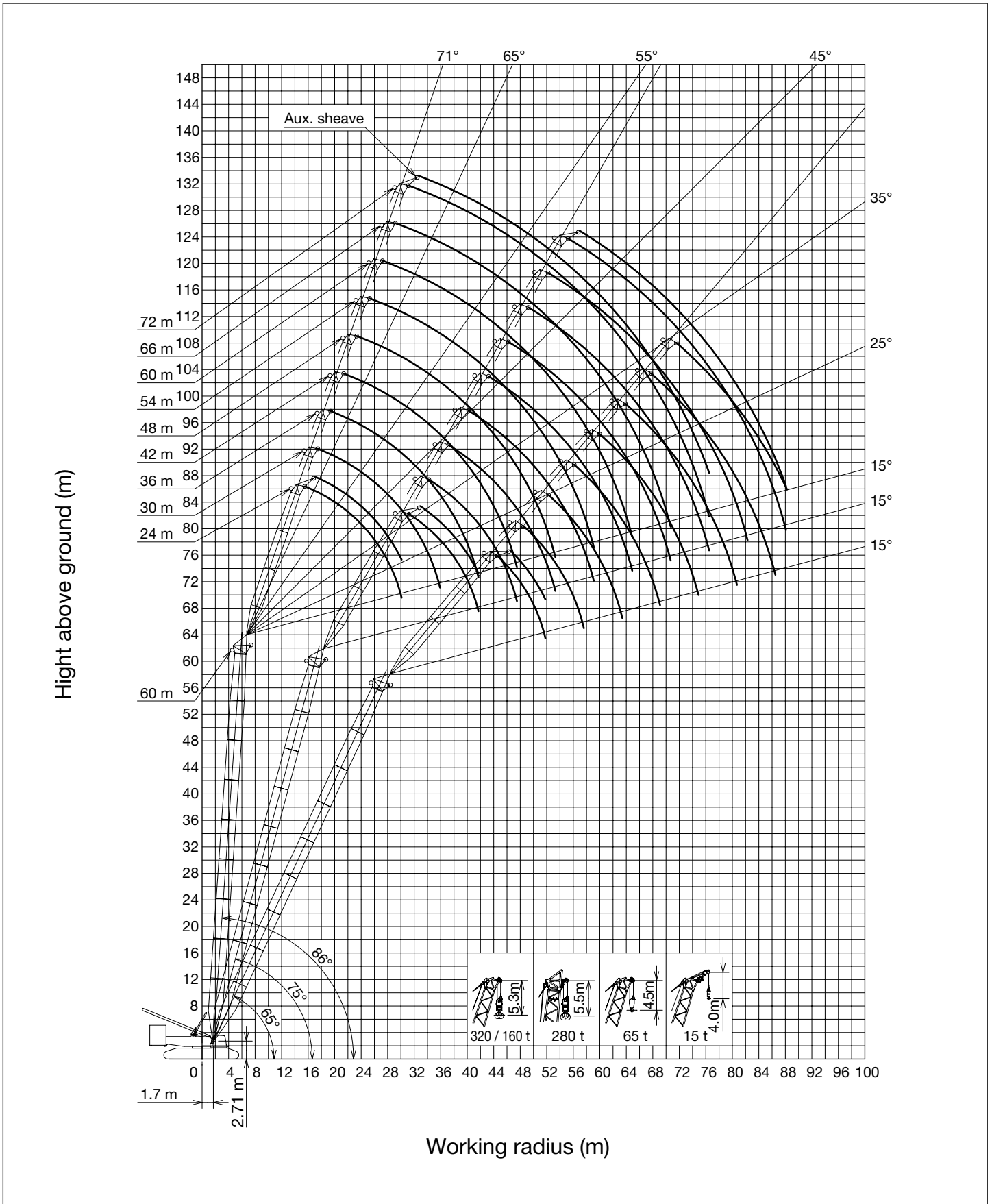


Tower length 48 m



# Working Range Diagram

 Tower length 60 m

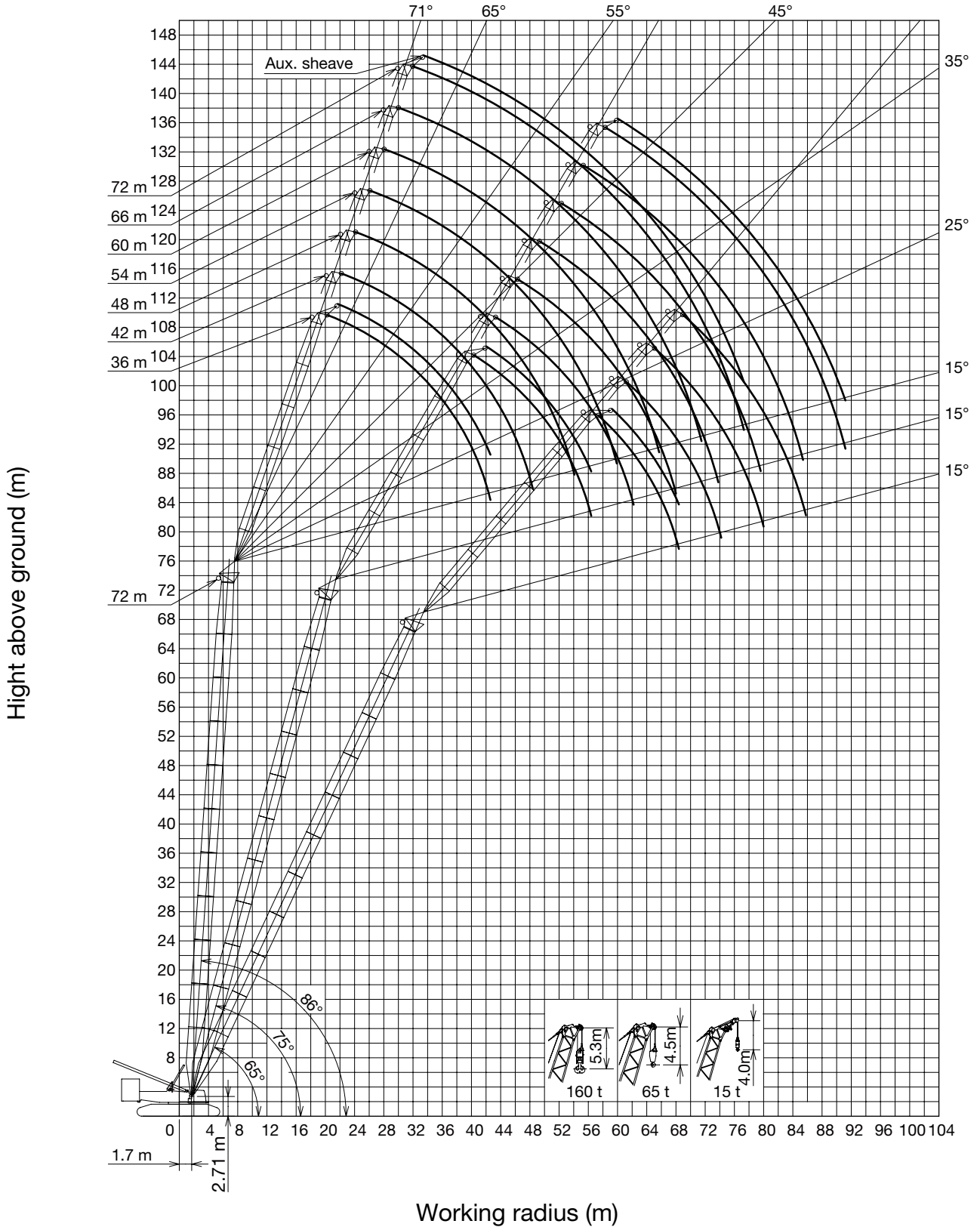







## Working Range Diagram




Tower length 72 m



Luffing Jib Capacities


 24 m  160 t  50 t w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48 m			60 m			72 m		
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
13.0	203.0														
14.0	187.6														
16.0	162.8			143.7 / 16.9											
18.0	142.0			134.6											
20.0	122.8	102.7 / 21.9		120.7			109.2 / 20.8								
22.0	107.9	102.0		107.7			103.1								
24.0	95.0	90.8		95.8			94.1			86.0 / 24.8					
26.0	85.0	81.6		86.1	73.5 / 27.9		85.1			81.8					
28.0	73.0 / 27.6	74.0	65.7 / 29.4	78.0	73.1		77.0			75.6			67.1 / 28.7		
30.0		67.5	64.0	71.2	66.7		70.2	55.3 / 33.9		69.2			64.3		
34.0		60.9 / 32.4	54.1	60.3	56.4	47.1 / 37.1	59.2	55.0		58.2			56.5		
38.0			49.2 / 36.5	51.9	48.5	45.5	50.9	47.2		49.8	42.7 / 39.9		48.7		
42.0				49.8 / 39.2	42.3	39.7	44.3	41.0	34.7 / 44.8	43.2	39.7		42.0	33.4 / 45.9	
46.0					39.7 / 44.0	34.9	39.0	36.0	33.4	37.9	34.6		36.7	33.3	
50.0						32.8 / 48.1	34.6	31.9	29.5	33.5	30.5	25.9 / 52.5	32.3	29.1	
54.0							33.9 / 50.8	28.5	26.3	29.8	27.1	24.7	28.5	25.7	
58.0								27.3 / 55.6	23.5	26.6	24.1	21.9	25.4	22.7	19.0 / 60.3
62.0									22.5 / 59.7	23.9	21.6	19.6	22.7	20.2	18.1
66.0										23.7 / 62.4	19.4	17.5	20.3	18.0	16.0
70.0											18.8 / 67.2	15.7	18.3	16.1	14.2
74.0												15.2 / 71.3	16.4	14.4	12.6
78.0														12.9	11.2
82.0														12.6 / 78.8	9.9
82.9															9.6

 36 m  160 t  50 t w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48 m			60 m			72 m		
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
13.9	176.1														
14.0	174.8														
16.0	152.8			128.6 / 17.8											
18.0	135.6			127.2											
20.0	121.8			114.5			99.4 / 21.7								
22.0	108.6			104.0			98.1								
24.0	96.6	83.1 / 25.0		95.1			89.8			79.4 / 25.6					
26.0	86.8	78.9		86.3			82.7			78.1					
28.0	78.6	71.4		78.2			76.6			72.3			64.1 / 29.5		
30.0	76.7 / 28.5	65.1		71.3	61.2 / 31.0		70.3			67.2			63.2		
34.0		55.0	49.0 / 34.5	60.4	54.0		59.3	46.6 / 37.0		58.3			55.3		
38.0		51.9 / 35.5	43.0	52.0	46.3		50.9	44.9		49.9			48.7		
42.0			37.9 / 41.6		40.4	35.7 / 42.2	44.3	38.9		43.3	36.2 / 43.0		42.1		
46.0					35.5	31.6	39.0	34.1	26.4 / 49.9	37.9	32.7		36.7	28.2 / 49.0	
50.0					34.3 / 47.1	27.9	34.6	30.1	26.3	33.5	28.7		32.3	27.3	
54.0						25.4 / 53.2	33.1 / 51.6	26.8	23.3	29.8	25.4	19.3 / 57.6	28.5	23.9	
58.0								24.0	20.7	26.6	22.5	19.0	25.4	21.1	
62.0								23.6 / 58.7	18.5	23.9	20.1	16.8	22.6	18.7	13.6 / 65.3
66.0									17.2 / 64.8	23.1 / 63.2	18.0	14.9	20.3	16.6	13.3
70.0											16.1	13.3	18.2	14.7	11.7
74.0											16.0 / 70.3	11.8	16.4	13.1	10.2
78.0												11.0 / 76.4	16.0 / 74.8	11.6	8.9
82.0														10.4 / 81.9	7.7
86.0															6.7
88.0															6.2



## Luffing Jib Capacities

48 m 160 t 50 t w / o Heavy head sheave block

(ton)




(m)	24 m			36 m			48 m			60 m			72 m	
(m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°
14.7	154.1													
16.0	142.1													
18.0	126.7			115.4 / 18.6										
20.0	114.2			107.5										
22.0	104.0			98.0			90.1 / 22.5							
24.0	95.3			89.9			84.6							
26.0	87.0			82.9			78.0			72.5 / 26.4				
28.0	78.8	67.2 / 28.2		76.9			72.4			68.3				
30.0	74.1 / 29.3	61.8		71.6			67.4			63.5			55.7 / 30.3	
34.0		52.2		60.5	50.6 / 34.2		59.0			55.5			51.4	
38.0		44.7	36.1 / 39.5	52.1	43.8		51.0	38.8 / 40.2		49.1			46.1	
42.0		43.8 / 38.6	33.0	47.1 / 40.9	38.0		44.4	36.4		43.1			41.0	
46.0			28.9		33.4	26.4 / 47.3	39.0	31.8		37.7	29.9 / 46.2		36.6	
50.0			28.2 / 46.7		29.5	24.2	34.6	28.0		33.3	26.3		32.5	23.3 / 52.2
54.0					29.4 / 50.2	21.4	32.2 / 52.5	24.8	19.0 / 55.0	29.6	23.1		28.7	22.0
58.0						19.1		22.1	17.3	26.4	20.4		25.5	19.3
62.0						18.9 / 58.3		19.9 / 61.8	15.3	23.7	18.1	13.0 / 62.7	22.8	17.0
66.0									13.6	22.4 / 64.1	16.1	11.6	20.4	15.0
70.0									12.1 / 69.9		14.4	10.1	18.3	13.2
74.0											13.1 / 73.4	8.8	16.4	11.6
78.0												7.7	15.7 / 75.7	10.2
82.0												6.8 / 81.5		9.0
85.0														8.1

60 m 160 t 50 t w / o Heavy head sheave block


(ton)

(m)	24 m			36 m			48 m			60 m		72 m	
(m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	86°	75°
15.5	112.4												
16.0	111.3												
18.0	107.1			88.8 / 19.5									
20.0	102.7			88.1									
22.0	92.4			85.3			71.2 / 23.4						
24.0	82.2			82.5			70.6						
26.0	73.8			76.5			68.7			57.6 / 27.3			
28.0	66.6			69.7			66.8			57.1			
30.0	60.4	55.5 / 31.3		63.8			63.5			55.8		45.4 / 31.2	
32.0	60.1 / 30.1	53.8		58.8			59.4			54.5		44.8	
34.0		49.6		54.5			55.7			52.2		43.2	
36.0		45.9		50.7	42.2 / 37.3		52.2			49.1		41.7	
38.0		42.5		47.3	41.1		49.0			46.2		40.2	
42.0		37.2 / 41.7	27.1 / 44.6	42.0 / 41.7	35.7		43.4	32.4 / 43.3		41.2		37.0	
46.0			25.9		31.3		38.5	29.5		37.0	24.8 / 49.3	33.9	
50.0			22.7		27.6	19.5 / 52.3	34.1	26.0		32.9	24.2	30.8	
54.0			21.4 / 51.8		25.0 / 53.3	18.5	31.0 / 53.3	22.9		29.2	21.3	27.8	18.5 / 55.3
58.0						16.3		20.4		26.1	18.7	24.7	16.9
62.0						14.4		18.1	12.6	23.4	16.5	22.0	14.7
66.0						13.8 / 63.4		16.7 / 64.9	11.0	21.6 / 64.9	14.6	19.6	12.8
70.0									9.6		12.9	17.6	11.2
74.0									8.4		11.4	15.7	9.7
78.0									8.1 / 74.9		10.6 / 76.5	14.7 / 76.5	8.4
82.0													7.3
86.0													6.2
88.1													5.7

## Luffing Jib Capacities

 72 m  160 t  50 t w / o Heavy head sheave block

(ton)

 (m)	36 m			48 m		60 m		72 m	
	86°	75°	65°	86°	75°	86°	75°	86°	75°
20.3	62.5								
22.0	60.7								
24.0	58.9			50.2 / 24.2					
26.0	56.8			48.9					
28.0	54.9			47.6		40.8 / 28.1			
30.0	50.9			46.2		39.8			
32.0	47.0			44.8		38.8		33.2	
34.0	43.5			43.5		37.8		32.2	
36.0	40.6			41.3		36.8		31.2	
38.0	37.9	33.8 / 40.4		38.8		35.8		30.3	
42.0	33.4	32.3		34.5		33.9		28.4	
46.0	32.8 / 42.6	28.7		31.0	25.6 / 46.4	31.4		26.5	
50.0		25.2		28.1	23.2	28.6	18.8 / 52.4	24.7	
54.0		22.3	13.0 / 57.4	25.7	20.7	26.3	18.0	22.9	
58.0		20.7 / 56.4	12.7	25.6	18.3	24.3	16.0	21.2	13.3 / 58.4
62.0			11.1		16.2	22.5	14.3	19.6	11.9
66.0			9.7		14.4	21.0 / 65.7	12.8	18.1	10.4
70.0			8.8 / 68.4		13.5 / 68.0		11.2	16.7	9.1
74.0							9.8	15.4	7.9
78.0							8.6	14.3 / 77.3	6.8
82.0							8.1 / 79.6		5.8
85.2									5.0



## Luffing Jib Capacities

24 m 180 t 62 t (OPT.) w / o Heavy head sheave block

(ton)

(m)	24 m			36 m			48 m			60 m			72 m		
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
13.0	210.0														
14.0	208.6														
16.0	181.1			160.1 / 16.9											
18.0	157.8			150.0											
20.0	136.7	115.0 / 21.9		134.6			122.1 / 20.8								
22.0	120.2	114.3		120.0			115.3								
24.0	107.1	101.8		106.8			105.4			96.5 / 24.8					
26.0	93.8	91.6		96.1	82.7 / 27.9		95.1			91.9					
28.0	73.0 / 27.6	83.2	74.4 / 29.4	87.2	82.3		86.2			85.0			67.1 / 28.7		
30.0		76.0	72.4	79.7	75.2		78.6	62.6 / 33.9		77.7			64.3		
34.0		68.6 / 32.4	61.5	67.6	63.7	53.7 / 37.1	66.6	62.4		65.6			56.5		
38.0			56.0 / 36.5	58.2	55.0	52.0	57.4	53.7		56.3	48.9 / 39.9		49.7		
42.0				50.6 / 39.2	48.1	45.5	50.1	46.8	40.1 / 44.8	49.0	45.4		43.8	38.6 / 45.9	
46.0					45.2 / 44.0	40.2	44.3	41.3	38.6	43.1	39.9		38.6	38.5	
50.0						37.8 / 48.1	39.0	36.7	34.3	38.2	35.3	30.4 / 52.5	34.2	33.9	
54.0							36.0 / 50.8	32.9	30.7	34.2	31.5	29.1	30.4	30.1	
58.0								31.5 / 55.6	27.6	30.7	28.2	26.0	27.1	26.8	22.9 / 60.3
62.0									26.4 / 59.7	27.1	25.4	23.3	24.1	24.0	21.8
66.0										26.1 / 62.4	22.9	21.0	21.5	21.5	19.5
70.0											22.3 / 67.2	19.0	19.3	19.4	17.5
74.0												18.4 / 71.3	17.3	17.5	15.7
78.0														15.8	14.1
82.0														15.5 / 78.8	12.7
82.9															12.4




36 m 180 t 62 t (OPT.) w / o Heavy head sheave block

(ton)


(m)	24 m			36 m			48 m			60 m			72 m		
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
13.9	195.9														
14.0	194.5														
16.0	170.1			143.5 / 17.8											
18.0	151.1			141.9											
20.0	135.8			127.8			111.3 / 21.7								
22.0	120.9			116.2			109.8								
24.0	107.7	93.6 / 25.0		106.4			100.7			89.3 / 25.6					
26.0	96.8	88.9		96.4			92.8			87.9					
28.0	86.8	80.6		87.4			86.0			81.5			64.1 / 29.5		
30.0	79.2 / 28.5	73.6		79.8	69.3 / 31.0		78.8			75.8			63.2		
34.0		62.4	56.3 / 34.5	67.7	61.3		66.7	53.3 / 37.0		65.7			56.3		
38.0		58.9 / 35.5	49.5	58.5	52.8		57.4	51.4		56.4			49.8		
42.0			43.7 / 41.6	54.6 / 40.0	46.1	41.5 / 42.2	50.1	44.7		49.1	41.9 / 43.0		44.0		
46.0					40.7	36.8	44.2	39.4	31.2 / 49.9	43.1	37.9		39.0	33.1 / 49.0	
50.0					39.4 / 47.1	32.7	39.4	34.9	31.1	38.2	33.5		34.6	32.1	
54.0						29.9 / 53.2	37.7 / 51.6	31.2	27.7	34.1	29.8	23.4 / 57.6	30.7	28.3	
58.0								28.1	24.8	30.7	26.6	23.1	27.3	25.2	
62.0								27.6 / 58.7	22.3	27.7	23.9	20.6	24.4	22.5	17.2 / 65.3
66.0									20.8 / 64.8	26.9 / 63.2	21.5	18.5	21.8	20.1	16.9
70.0											19.5	16.6	19.5	18.0	15.0
74.0											19.3 / 70.3	14.9	17.6	16.2	13.3
78.0												14.0 / 76.4	17.2 / 74.8	14.6	11.9
82.0														13.2 / 81.9	10.6
88.0															10.9






Luffing Jib Capacities



 48 m  180 t  62 t (OPT.) w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48m			60m			72m			
	 (m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
14.7	158.0															
16.0	153.9															
18.0	141.5			122.9 / 18.6												
20.0	127.7			120.2												
22.0	116.3			109.8			97.0 / 22.5									
24.0	106.7			100.8			95.1									
26.0	96.5			93.1			87.9			76.0 / 26.4						
28.0	87.2	76.4 / 28.2		86.4			81.6			74.3						
30.0	81.6 / 29.3	70.3		80.1			76.0			71.9			55.7 / 30.3			
34.0		59.6		67.9	57.9 / 34.2		66.8			63.1			51.4			
38.0		51.2	42.3 / 39.5	58.6	50.3		57.5	44.9 / 40.2		55.9			46.6			
42.0		50.1 / 38.6	38.8	53.1 / 40.9	43.8		50.2	42.2		48.9			41.9			
46.0			34.1		38.6	31.5 / 47.3	44.3	37.0		43.0	35.1 / 46.2		37.5			
50.0			33.4 / 46.7		34.3	29.0	39.4	32.8		38.1	31.1		33.6	27.9 / 52.2		
54.0					34.1 / 50.2	25.9	32.1 / 52.5	29.2	23.3 / 55.0	34.0	27.5		30.1	26.4		
58.0						23.2		26.2	21.3	30.5	24.5		26.9	23.4		
62.0						23.0 / 58.3		23.7 / 61.8	19.1	27.5	21.9	16.8 / 62.7	24.1	20.8		
66.0									17.1	26.1 / 64.1	19.7	15.2	21.6	18.5		
70.0									15.4 / 69.9		17.7	13.5	19.4	16.5	12.0 / 70.4	
74.0											16.2 / 73.4	12.0	17.5	14.8	10.6	
78.0												10.6	16.8 / 75.7	13.2	9.3	
82.0												9.6 / 81.5		11.8	8.1	
86.0														10.9 / 85.0	7.0	
90.0															6.0	
93.1															5.3	

 60 m  180 t  62 t (OPT.) w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48m			60m			72m		
	 (m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°
15.5	112.4														
16.0	111.3														
18.0	107.1			88.8 / 19.5											
20.0	102.7			88.1											
22.0	92.4			85.3			71.2 / 23.4								
24.0	82.2			82.5			70.6								
26.0	73.8			76.5			68.7			57.6 / 27.3					
28.0	66.6			69.7			66.8			57.1					
30.0	60.4	63.6 / 31.3		63.8			64.9			55.8			45.4 / 31.2		
34.0	60.1 / 30.1	56.9		54.5	48.8 / 37.3		56.0			53.1			43.2		
38.0		49.0		47.3	47.6		49.0			49.7			40.2		
42.0		43.1 / 41.7	32.5 / 44.6	42.0 / 41.7	41.5		43.4	38.0 / 43.3		44.3			37.0		
46.0			31.1		36.5		39.0	34.8		39.9	29.7 / 49.3		33.9		
50.0			27.5		32.4	24.1 / 52.3	35.4	30.7		36.3	29.0		30.8		
54.0			26.0 / 51.8		29.4 / 53.3	22.9	32.8 / 53.3	27.3		33.2	25.7		28.0	22.8 / 55.3	
58.0						20.4		24.4	17.4 / 58.0	30.2	22.8		25.4	21.0	
62.0						18.2		21.9	16.4	27.2	20.3		22.9	18.5	
66.0						17.5 / 63.4		20.3 / 64.9	14.5	25.5 / 64.9	18.2	11.9 / 67.8	20.7	16.4	
70.0										13.0		16.3	11.1	18.7	14.5
74.0										11.5		14.6	9.7	16.9	12.9
78.0										11.2 / 74.9		13.6 / 76.5	8.5	15.9 / 76.5	11.4
82.0													7.4		10.1
86.0													6.3		8.9
90.0													6.2 / 86.5		8.3 / 88.1



## Luffing Jib Capacities

72 m 180 t 62 t (OPT.) w / o Heavy head sheave block

(ton)

(m)	36 m			48 m			60 m		72 m	
	86°	75°	65°	86°	75°	65°	86°	75°	86°	75°
20.3	62.5									
22.0	60.7									
24.0	58.9			50.2 / 24.2						
26.0	56.8			48.9						
28.0	54.9			47.6			40.8 / 28.1			
30.0	50.9			46.2			39.8		33.2 / 32.0	
34.0	43.5			43.5			37.8		32.2	
38.0	37.9	40.2 / 40.4		38.8			35.8		30.3	
42.0	33.4	38.5		34.5			33.9		28.4	
46.0	32.8 / 42.6	33.9		31.0	31.1 / 46.4		31.4		26.5	
50.0		30.0		28.1	28.3		28.6	23.7 / 52.4	24.7	
54.0		26.7	17.1 / 57.4	25.7	25.1		26.3	22.8	22.9	
58.0		24.9 / 56.4	16.8	25.6 / 54.1	22.4		24.3	20.5	21.2	17.7 / 58.4
62.0			14.9		20.0	11.6 / 65.1	22.5	18.4	19.6	16.0
66.0			13.2		17.9	11.3	21.1 / 65.7	16.3	18.1	14.4
70.0			12.3 / 68.4		17.0 / 68.0	9.9		14.6	16.7	12.8
74.0						8.7		13.0	15.4	11.2
78.0						7.5		11.5	14.3 / 77.3	9.9
82.0						7.0 / 80.0		11.0 / 79.6		8.6
86.0										7.5
90.0										6.5
91.2										6.2

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 rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations. ; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 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.
- The maximum rated load of the auxiliary sheave is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the "luffing jib hook" attached to the "luffing jib" are deducted from the maximum rated load of the "Luffing Jib Capacities." However, the maximum rated load of the auxiliary sheave is limited to 30 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the luffing jib hook.
- If the auxiliary sheave is attached, the maximum rated load of the "luffing jib hook" is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Luffing Jib Capacities."
- If the heavy head sheave block is attached, the maximum rated load of the "luffing jib hook" is the value remaining after the 3.0 ton mass of the heavy head sheave block and the mass of the "luffing boom hook" attached to the heavy head sheave block are deducted from the "Luffing jib Maximum Rated Load" value.
- The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load
- Luffing Boom and Luffing Jib tilt angle ranges are according to the working range diagram.
- The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )												
			8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls									
320	Double-Reeling	7.9	210	208	180	151	-	-	-	-					
			13 Falls	12 Falls	11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	-	-	157	144	131	118	104	90	-	-	-	-	-
160	Single-Reeling	3.9	-	-	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	3.0	-	-	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-

10. The chart below shows the operable windings based on the length of each boom.

Tower Length (m)		24									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	8 x 2	7 x 2	6 x 2						
		Min.	5 x 2	5 x 2	5 x 2						
280	Single-Reeling	Max.	11	11	11	10	9	8	7	6	-
		Min.	6	6	6	6	6	6	6	6	6
160	Single-Reeling	Max.	11	11	11	10	9	8	7	6	5
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-

Tower Length (m)		30									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	7 x 2	6 x 2							
		Min.	5 x 2	5 x 2							
280	Single-Reeling	Max.	11	11	11	9	8	7	7	6	-
		Min.	6	6	6	6	6	6	6	6	6
160	Single-Reeling	Max.	11	11	11	9	8	7	7	6	5
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-

Tower Length (m)		36									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	7 x 2	6 x 2	-	-	-	-	-	-	-
		Min.	5 x 2	5 x 2							
280	Single-Reeling	Max.	11	11	10	9	8	7	6	6	-
		Min.	6	6	6	6	6	6	6	6	6
160	Single-Reeling	Max.	11	11	10	9	8	7	6	6	5
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-

Tower Length (m)		42									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	7 x 2	6 x 2	5 x 2	-	-	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2						
280	Single-Reeling	Max.	11	10	9	8	8	7	6	-	-
		Min.	6	6	6	6	6	6	6	6	6
160	Single-Reeling	Max.	11	10	9	8	8	7	6	5	-
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	4
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-



## Notes

Tower Length (m)		48								
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72
320	Double-Reeling	Max.	6 x 2	5 x 2	5 x 2	-	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2					
280	Single-Reeling	Max.	10	9	8	8	7	6	-	-
		Min.	6	6	6	6	6	6		
160	Single-Reeling	Max.	10	9	8	8	7	6	5	5
		Min.	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	4
		Min.	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-

Tower Length (m)		54								
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72
320	Double-Reeling	Max.	5 x 2	-	-	-	-	-	-	-
		Min.	5 x 2							
280	Single-Reeling	Max.	9	8	8	7	6	-	-	-
		Min.	6	6	6	6	6			
160	Single-Reeling	Max.	9	8	8	7	6	5	5	-
		Min.	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	4
		Min.	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-

Tower Length (m)		60								
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72
280	Single-Reeling	Max.	8	7	6	6	-	-	-	-
		Min.	6	6	6	6				
160	Single-Reeling	Max.	8	7	6	6	5	5	-	-
		Min.	5	5	5	5	5	5		
65	Single-Reeling	Max.	5	5	5	5	5	5	4	4
		Min.	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-

Tower Length (m)		66							
Hook Capacity (ton) / Jib Length (m)		30	36	42	48	54	60	66	72
280	Single-Reeling	Max.	6	-	-	-	-	-	-
		Min.	6						
160	Single-Reeling	Max.	6	5	5	-	-	-	-
		Min.	5	5	5				
65	Single-Reeling	Max.	5	5	5	4	4	4	3
		Min.	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-

Tower Length (m)		72						
Hook Capacity (ton) / Jib Length (m)		36	42	48	54	60	66	72
160	Single-Reeling	Max.	5	-	-	-	-	-
		Min.	5					
65	Single-Reeling	Max.	5	4	4	3	3	3
		Min.	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-

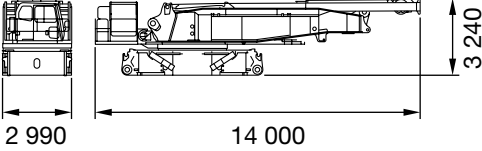
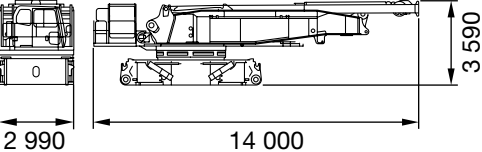
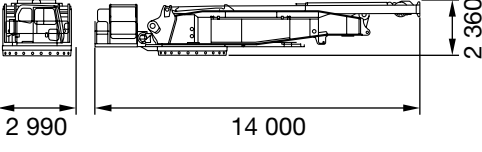
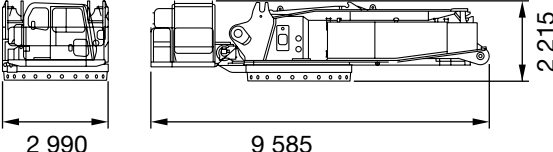
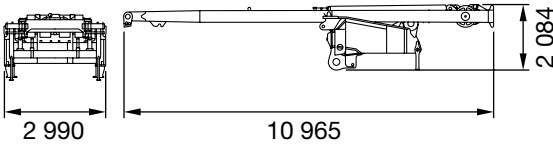
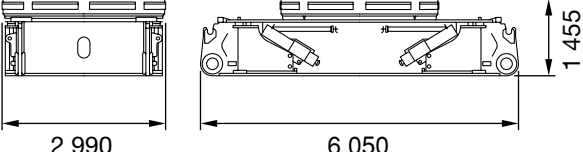
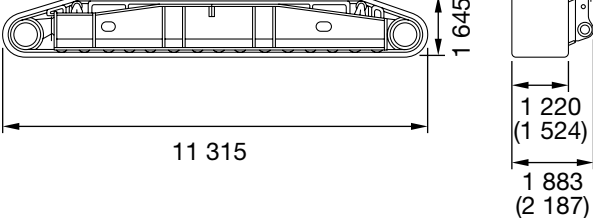
11. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed.

Please select a hook that can be lowered based on the boom length and number of windings.

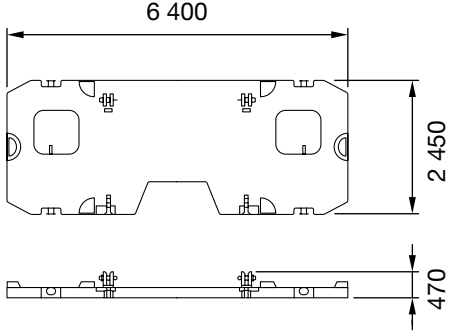
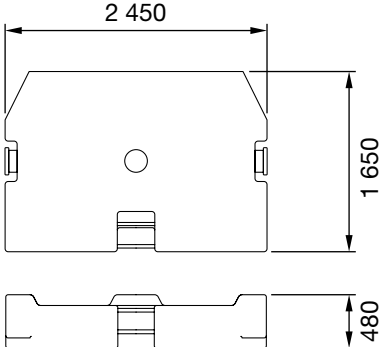
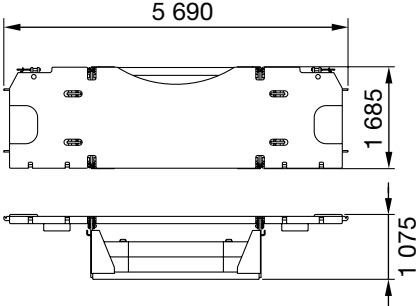
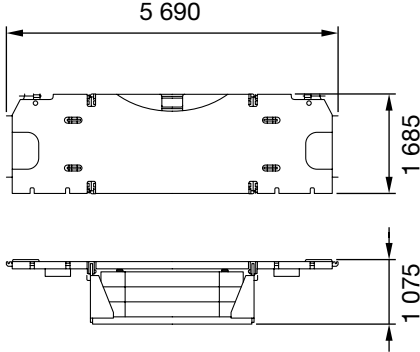
Tower Length + Luffing Jib Length	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls	12 Falls	13 Falls
48 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0
54 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1	7.0	-
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	4.5	-	-
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	4.4	-	-	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	4.2	-	-	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	4.3	-	-	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-	-	-	-	-	-
102 m	-	2.0	2.0	2.3	3.0	3.9	-	-	-	-	-	-	-
108 m	-	2.0	2.0	2.5	3.1	-	-	-	-	-	-	-	-
114 m	-	2.0	2.0	2.6	3.3	-	-	-	-	-	-	-	-
120 m	-	2.0	2.0	2.8	-	-	-	-	-	-	-	-	-
126 m	-	2.0	2.1	2.9	-	-	-	-	-	-	-	-	-
132 m	-	2.0	2.3	-	-	-	-	-	-	-	-	-	-
138 m	-	2.0	2.4	-	-	-	-	-	-	-	-	-	-
144 m	-	2.0	2.5	-	-	-	-	-	-	-	-	-	-



## Crane

Description	Q'ty	Dimensions (mm)	Mass (kg)
Superstructure with : Live mast Hoist rope Lower jacks W/o upper jack	1		62 100
Superstructure with : Live mast Hoist rope Lower jacks Quick connection W/o upper jack	1		66 200
Superstructure with : Live mast Hoist rope Quick connection W/o upper jack	1		45 000
Front frame	1		30 800
Rear frame	1		15 300
Lower frame	1		21 200
Side frame *( ) : Option	One side		33 200 (38 300)

## Counterweights

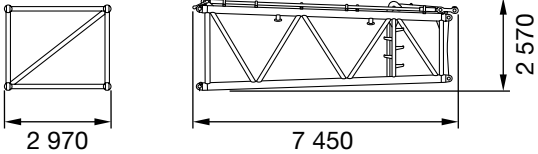
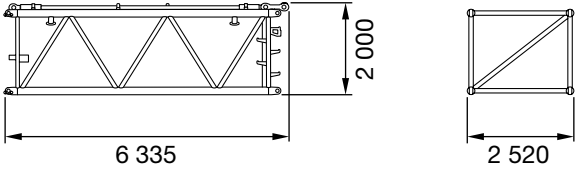
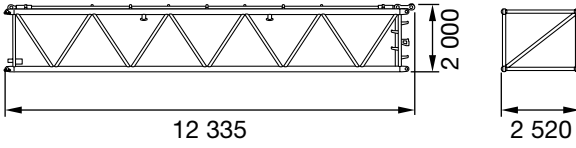
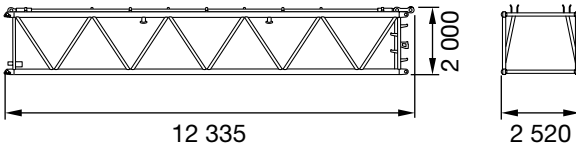
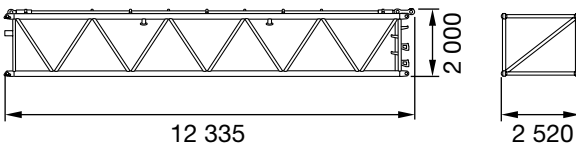
Description	Q'ty	Dimensions (mm)	Mass (kg)
Base counterweight	1		20 000
Counterweight	14(Std.) 16(Opt.)		10 000
Lower counterweight (Std.)	2		25 000
Lower counterweight (Opt.)	2		31 000

## Attachments

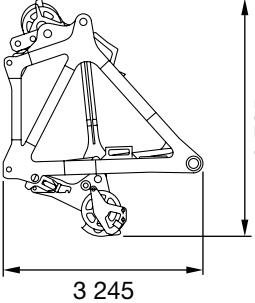
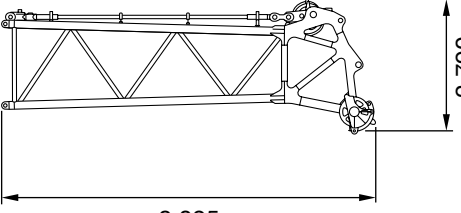
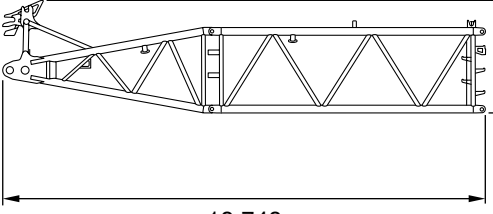
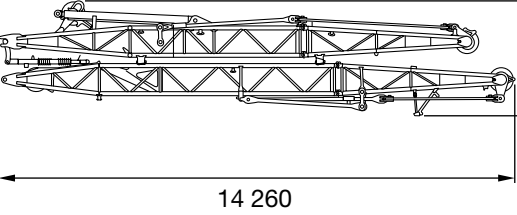
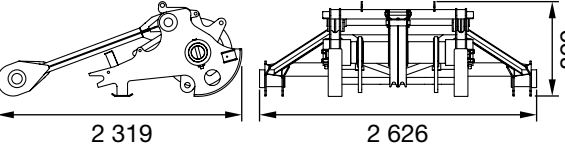
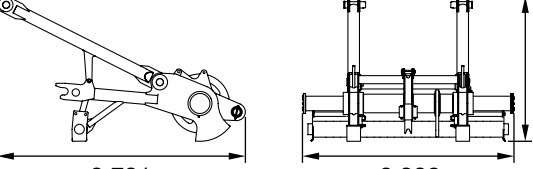
Description	Q'ty	Dimensions (mm)	Mass (kg)
HB 9.5 Boom base section With W1 (main hoist), W2 (main / auxiliary hoist), W4 (luffing jib hoist) winches	1		26 900
H6A Heavy duty boom extension A With connecting pin With pendants	1		3 700
H12A Heavy duty boom extension A With connecting pin With pendants	1		6 600
H12B Heavy duty boom extension B With connecting pin With pendants	1		6 500
H12C Heavy duty boom extension C With connecting pin With pendants	1		7 500
HL12B Heavy duty boom light extension B With connecting pin With pendants	3		5 900



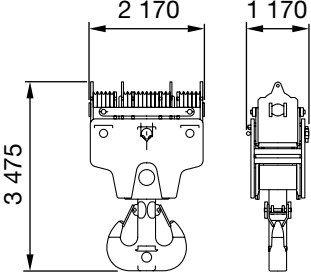
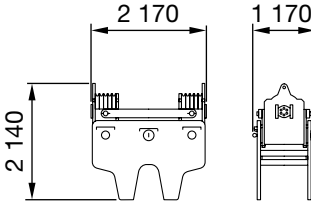
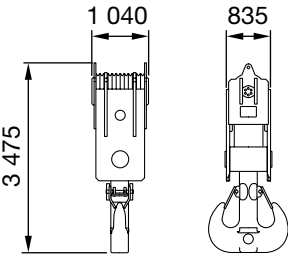
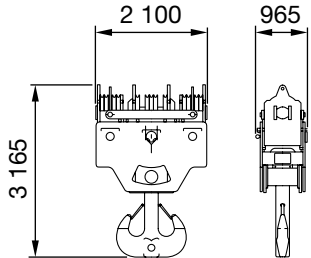
Attachments

Description	Q'ty	Dimensions (mm)	Mass (kg)
<p>HR7 Tapered extension With connecting pin With pendants</p>	<p>1</p>		<p>4 500</p>
<p>L6A Long range boom extension A With connecting pin With pendants</p>	<p>1</p>		<p>2 100</p>
<p>L12A Long range boom extension A With connecting pin With pendants</p>	<p>1</p>		<p>3 700</p>
<p>L12B Long range boom extension B With connecting pin With pendants</p>	<p>1</p>		<p>3 800</p>
<p>LL12A Long range boom light extension A With connecting pin With pendants</p>	<p>2</p>		<p>3 400</p>

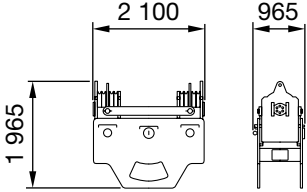
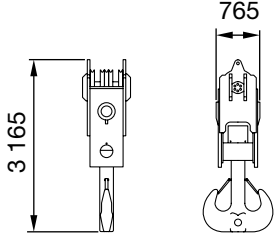
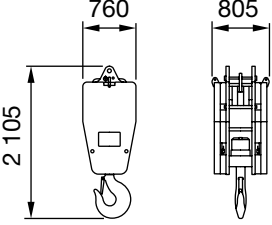
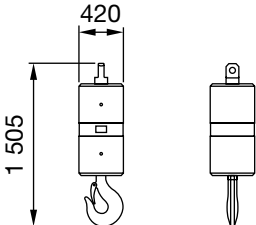
## Attachments

Description	Q'ty	Dimensions (mm)	Mass (kg)
HT1.5 Heavy duty boom head	1	 <p style="text-align: right;">Width 2 520</p>	7 700 (w / sheave block)
LT7.5 Long range boom head	1	 <p style="text-align: right;">Width 2 990</p>	4 800
LB4.5+LB6 Luffing jib base	1	 <p style="text-align: right;">Width 2 520</p>	3 800
Front post Rear post	1	 <p style="text-align: right;">Width 2 740</p>	10 200 (F : 4 500) (R : 5 700)
Auxiliary tip extension for heavy duty boom head	1		1 000
Auxiliary tip extension for long range boom head	1		1 000

## Hook blocks

Description	Q'ty	Dimensions (mm)	Mass (kg)
550 t hook with equalizer sheave block	1		12 500
Equalizer sheave block for 550 t hook	1		5 440
280 t hook	1		7 060
320 t hook with equalizer sheave block	1		7 850

## Hook blocks

Description	Q'ty	Dimensions (mm)	Mass (kg)
Equalizer sheave block for 320 t hook	1		3 960
160 t hook	1		3 890
65 t hook	1		3 000
15 t hook	1		950

## Standard Equipment

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### Undercarriage

---

- 1 220 mm wide track shoes
- Side frame removal device
- Auto-greasers ( for upper and lower track rollers )
- Lower jack-up device
- Floats (Pontoons)
- Drive tumbler tension adjusting devices
- Steps
- Level gauge

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### Superstructure

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- The engine meets Stage / Tier 3 of current smoke emission regulations in Europe, America and Japan.
- Live mast assy. (include sheaves and links)
- Live mast flip cylinders
- Load hoist drums (W1 and W2 )
- Boom hoist drum (W3)
- Auto-greasers (for T.T.B.)
- Engine room under-cover
- Two 70W working lights
- Rear view mirror ( Left side )
- Ladder (Left and Right side )
- Std. spare parts and tools

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### Counterweights

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- 160 t counterweights ; 10t counterweight X 14 pcs. with base counterweight.
- 50 t lower counterweight

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### Cabin

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- 1 200 mm wide, full-vision operator's cab
- Cab swing device
- Cab tilt device(0-15°)
- Cab sidestep
- Joystick lever (for slewing and boom hoist drum)
- Armchair control lever ( for load hoist and jib hoist drums)
- Drum indicator (Load hoist and Boom hoist drum)
- Speed control device (Load hoist, Boom hoist and Slewing)
- Foot throttle
- Slewing brake pedal
- 24 V electric outlet
- A reinforced light green-tinted safety glass
- Cab under-cover
- Air-conditioner
- Dual intermittent window shield wipers with washers
- Sunshade
- Sunvisor
- AM / FM Radio w / clock
- Cab floor mat
- Cigar lighter
- Ash tray
- Cup Holder
- Room light
- Level gauge

---

### Safety Device

---

- Load Moment Indicator
- Control lever position check monitor
- Front-end att. erection mode
- Fool proof shut-off system
- Automatic drum pawl locks (W1, W2, W3, W4)
- Control lever locks
- Speed slowdown device
- Emergency engine stop switch
- Hydraulic cylinder type Boom backstops
- Boom over-hoist and -lowering limiting device
- Dual boom over-hoist limiting device (Back stop limit switch)
- Hook over-hoist limiting device
- Non-drum brake preventing device
- Slewing brake safety circuit
- Slewing brake lamp
- Slewing alarm
- Travel alarm
- Lifting height meter

---

### Liftcrane Attachment

---

- 24 m heavy duty basic boom
- Hydraulic cylinder type boom backstops
- Hook over-hoist limiting device
- Nesting device
- Right boom extension assembling plate
- Boom angle indicator

---

### Luffing Attachment

---

- 24 m heavy duty basic boom
- 24 m basic luffing jib
- W4(luffing jib hoist) winch and wire rope
- Hydraulic cylinder type boom backstops
- Luffing jib backstops
- Hook over-hoist limiting device
- Luffing jib over-hoist and -lowering limiting device
- Dual luffing jib over-hoist limiting device
- Nesting device
- Right boom extension assembling plate

## Optional Equipment

○ : STD. ● : OPT. ○\*1 : Luffing Tower only

Location	Description	Std. or Opt.		
		Liftcrane		Luffing Tower
		H-Boom	L-Boom	
Undercarriage	Side Jacks (*Main boom self erection required for longer than 84 m)	●	●	●
	1 220 mm wide shoes	○	○	○
	1 524 mm wide shoes	●	●	●
	Track shoe lifting tools	●	●	●
Superstructure	Manually operated T.T.B. quick disconnect device	●	●	●
	Hydraulically operated T.T.B. quick disconnect device	●	●	●
	Split upper frame and quick disconnect device	●	●	●
	Upper jacks-up device	●	●	●
	Top of house guardrope system (w / o guardrail )	●	●	●
	Re-fuel pump	●	●	●
	Rear view mirror ( Left-side )	●	●	●
Counterweight	160 t counterweight	○	○	○
	50 t lower counterweight			
	180 t counterweight	●	●	●
	62 t lower counterweight			
	Ladder for lower counterweight	○	○	○
	Two ladders for left and right side counterweight	●	●	●
Operator cab	Air-conditioner	○	○	○
	Microphone and loud-speaker	●	●	●
	Fire extinguisher	●	●	●
Safety device	Three color percentage indicator	●	●	●
	Anemometer	●	●	●
Front attachment Hook blocks and Boom extensions	Heavy duty basic boom	○	-	○
	Long range basic boom	-	●	●
	24 m basic luffing jib	-	-	○*1
	Jib hoist winch (W4)	-	-	○*1
	Front post	-	-	○*1
	Rear post	-	-	○*1
	Hyd. cylinder type rear post backstops	-	-	○*1
	Roller support for luffing jib head	-	-	○*1

Optional Equipment

○ : STD. ● : OPT. ○\*1 : Luffing Tower only

Location	Description	Std. or Opt.			
		Liftcrane		Luffing Tower	
		H-Boom	L-Boom		
Front attachment Hook blocks and Boom extensions	550 t hook block [280 t hook block + equalizer sheave block(10 sheaves)]	●	-	●	
	280 t hook block (10 sheaves)	●	●	●	
	320 t hook block [160 t hook block + equalizer sheave block (8 sheaves)]	●	●	●	
	160 t hook block (5 sheaves)	●	●	●	
	65 t hook block (2 sheaves)	●	●	●	
	15 t hook block	●	●	●	
	6 m Heavy boom extension (H6A)	○	●	○	
	12 m Heavy boom extension (H12A)	●	○	●	
	12 m Heavy boom extension (H12B)	●	●	●	
	12 m Heavy boom extension (H12C)	●	●	●	
	12 m Heavy boom extension (HL12B)	●	●	●	
	6 m Long range boom extension (L6A)	-	○	○	
	12 m Long range boom extension (L12A)	-	●	●	
	12 m Long range boom extension (L12B)	-	●	●	
	12 m Long range boom extension (LL12A)	-	●	●	
	Boom sky walk	●	●	●	
	Stanchion	●	●	●	
	Aux. sheave (2 sheaves) for Heavy duty boom top	●	-	●	
	Aux. sheave (1 sheave) for Long range boom top	-	●	●	
	7.6 m heavy duty tip extension	●	-	●	
	Boom	Rope pendants	○	○	○
		Bar pendants	●	●	●
	Front post	Rope pendants	○	○	○
		Bar pendants	●	●	●
	Rear post	Rope pendants	○	○	○
		Bar pendants	●	●	●
	Others	Reeving winch	●	●	●
Portable engine-hydraulic power pack		●	●	○	
Two sets for boom / jib connect pin connect / disconnect cylinder ; handy type		●	●	●	
Rope / bar pendant holding brackets		○	○	○	
Assembling / disassembling wires and parts (for counterweights & clawlers)		○	○	○	
Live mast self assembly cylinder ( quick draw cylinder)		●	●	●	

- 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 Unit as old one.
- 

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<http://www.hsc-crane.com>



# 6000SLX

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**Super Lift**

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**SL-N**

**Specifications**

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# Contents

<b>Specifications</b>	.....	3-4
<b>Symbols</b>	.....	4
<b>Outline</b>	<ul style="list-style-type: none"> <li>■ Winch Assignment ..... 5</li> <li>■ Dimensions &amp; Main Specifications : Liftcrane ..... 6</li> <li>■ Dimensions &amp; Main Specifications : Luffing Tower ..... 7</li> </ul>	
<b>Liftcrane Heavy Duty Boom</b>	<ul style="list-style-type: none"> <li>■ Boom Combinations ..... 8</li> <li>■ Working Range Diagram ..... 8</li> <li>■ Capacities ..... 9</li> <li>■ Notes ..... 10-11</li> </ul>	
<b>Liftcrane Long Range Boom</b>	<ul style="list-style-type: none"> <li>■ Boom Combinations ..... 12</li> <li>■ Working Range Diagram ..... 12</li> <li>■ Capacities ..... 13</li> <li>■ Notes ..... 14-15</li> </ul>	
<b>Heavy Duty Tip Extension</b>	<ul style="list-style-type: none"> <li>■ Boom Combinations ..... 16</li> <li>■ Working Range Diagram ..... 16</li> <li>■ Capacities ..... 17</li> <li>■ Notes ..... 18</li> </ul>	
<b>Luffing Tower</b>	<ul style="list-style-type: none"> <li>■ Boom Combinations ..... 20</li> <li>■ Working Range Diagram ..... 21-24</li> <li>■ Capacities ..... 25-28</li> <li>■ Notes ..... 29-30</li> </ul>	
<b>Transport Data</b>	.....	31

## Specifications

### Engine

- Model : Isuzu 6WG1
- Type : 4-cycle, water-cooled, direct injection, turbo-charged, diesel engine
- Displacement : 15 681 cc
- Rated Output : 397 kW / 1 800 min<sup>-1</sup>  
(530 ps / 1 800 rpm)
- Fuel Tank : 800 liters
- Electrical System : 24 V D.C., 2 batteries

#### Notes:

- 1 Engine meets Stage / Tier 3 of current smoke emission regulations in Europe, United States and Japan.
- 2 The 397 kW engine horsepower shown above is based on an international engine horsepower rating formula that includes the horsepower necessary for engine alternator drive but excludes engine fan drive.

### Control

- Control System : Control levers operate remote-controlled hydraulic servos that direct oil through six sets of tandem valves to provide comprehensive motion control.
- Control Levers : Ergonomic lever layout enables efficient operation. Joystick lever on left side controls slewing and boom hoist. Arm-chair levers on right side control hoist 1 & 2, luffing, jib hoist, travel and long-mast hoist. Main winch levers are equipped with drum rotation sensors.
- Slewing Brake Pedal: Designed to be maintenance free while resisting overheating. Unique brake design of hydraulic oil control system makes it possible to smoothly initial slewing motion, even against the wind.
- Display Panel Design : Graphics on the display panel makes it easy to input the necessary operating conditions and data according to actual lifting and working conditions.

### Hydraulic System

Three variable-displacement axial piston pumps and one fixed-displacement tandem gear pump provide power for independent and combined operations for all functions.

- Hydraulic Reservoir Capacity : 800 liters

### Load Hoist Drums (W1, W2)

Independent bi-directional hydraulic motors provide power through a two-stage planetary reduction gear unit to drive the two main hoisting drums for hoisting and lowering operations.

Cables : 28mm dia. / 800 m long.

### Long Mast Hoist Drum (W3)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the boom.

Cables : 28 mm dia.

### Luffing Jib Hoist Drum (W4)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the luffing jib.

Cables : 28 mm dia.

### Boom Hoist Drum (W5)

Independent bi-directional hydraulic motors provide power through a two-stage planetary reduction gear unit to drive the two main hoisting drums for hoisting and lowering operations.

Cables : 28mm dia. / 800 m long.

## Specifications

### Slewing System

Slewing system is designed so that the three slewing pinions mesh with the external slewing ring gear. With this design, the external slewing gears bears the majority of the slewing torque. The system is designed to be easy to lubricate.

### Counterweight

Standard 160 ton counterweight consists of a 20-ton base weight and 14 cast iron block pieces that all have the same dimensions.

Optional 180-ton weight uses two additional weights in addition to standard counterweight.

### Lower Weight

50-ton weight is standard  
62-ton weight is optional

### Side Frames

All welded structures are manufactured from high-strength steel. Each component is equipped with two steel plate hooks to make assembling on lower frame lower. Side frame is secured by removable joint pins provided on the lower frame.

- Shoe width : 1 220 mm wide is standard.  
1 524 mm wide is optional.
- Drive unit : 2-track drive unit per side frame.

### Safety Device

- Load Moment Indicator (LMI) : The computerized system helps prevent overloads and provide safe and efficient control. Meets both EN and BS standards.
- Front-end Attachment. Erection Mode : This is an internal function of the Load Moment Indicator (LMI). It gives a warning on the LMI panel that the crane has extended beyond its intended working area. Once the work outside the intended working area is completed, the system returns automatically to resume work in the intended working range.
- Hydraulic Boom Backstops : These stops operate in conjunction with LMI to help prevent backward reaction, especially when operating with short boom lengths or against winds.
- Boom Over-hoist and Over-lowering Limiting Device : This is a combination of two systems designed to enhance operating efficiency. One system is a limit switch that is incorporated into the boom foot to prevent over hoisting. The other is a part of the LMI that prevents over-hoisting or over-lowering the boom. It includes automatic drum braking, hydraulic locks and alarm warnings.
- Drum Locks : Electrically operated pawl locks are provided as standard on all drums.

## Symbols



Capacity



Working Radius



Counter Weight



Lower Weight



SL-N



Heavy Duty Boom



Heavy Duty Boom Length



Long Range Boom



Long Range Boom Length



Heavy Duty Tip Extension

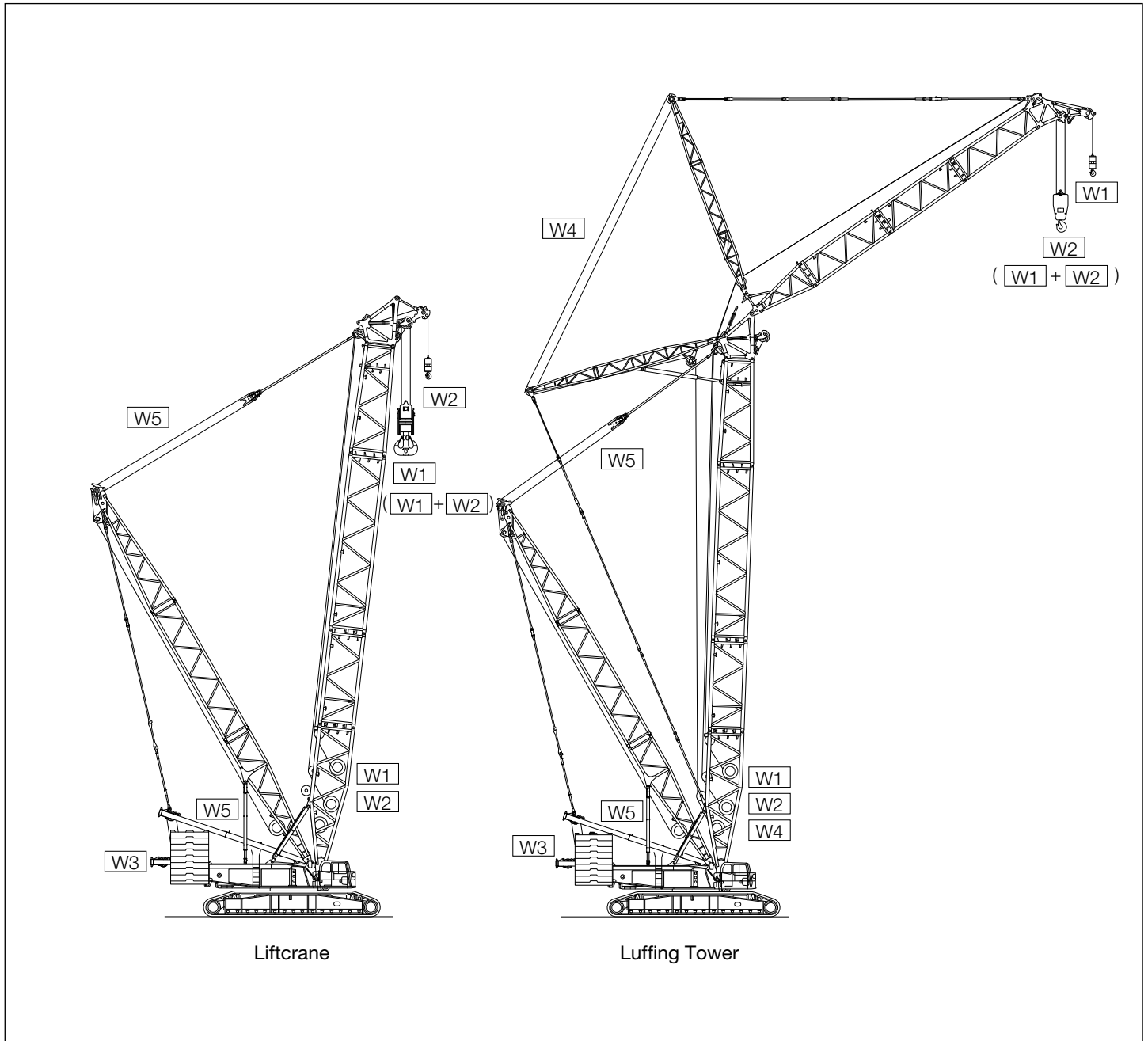


Luffing Jib



Luffing Jib Length

## Winch Assignment



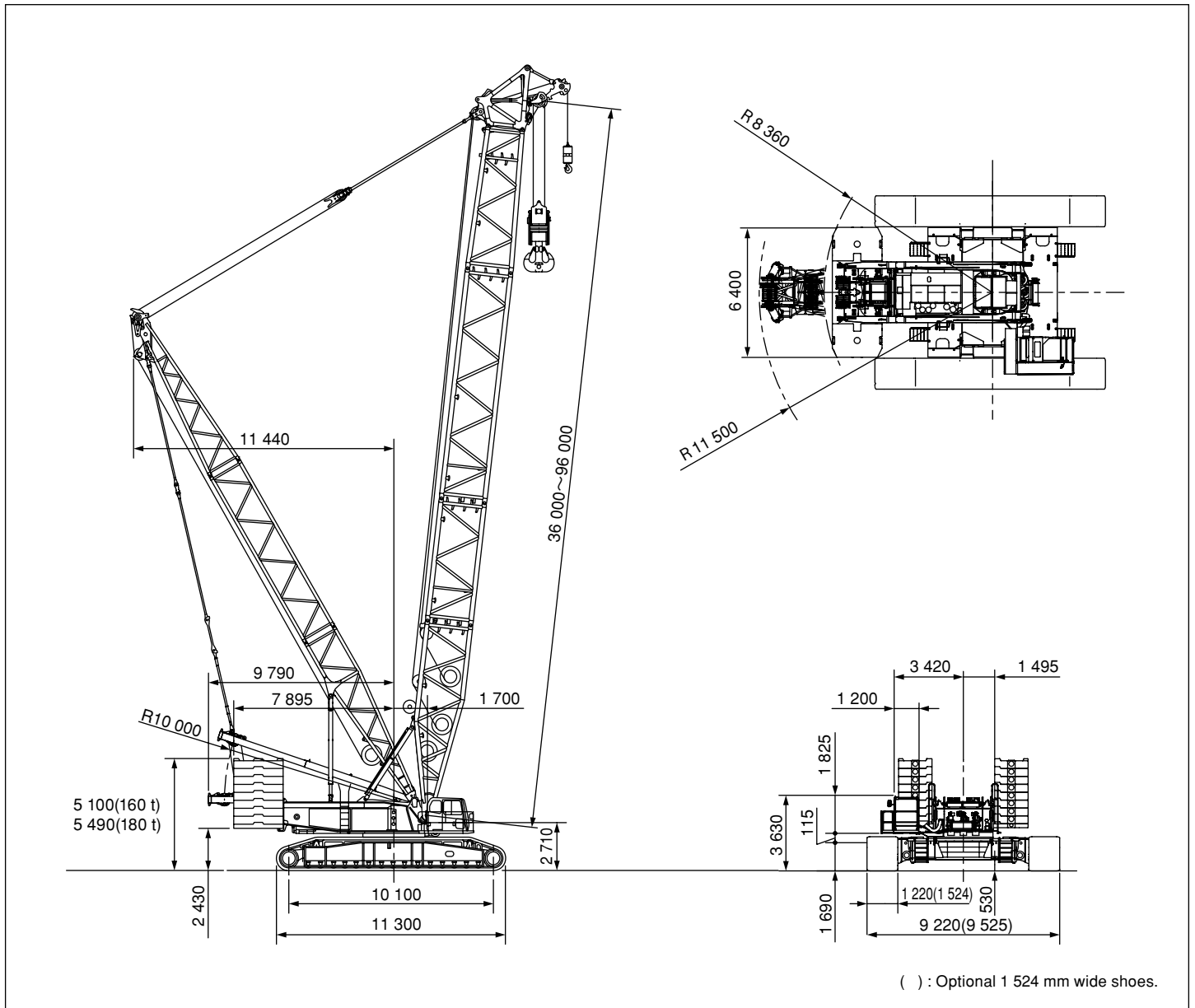
### Hook Blocks

Hook blocks		Mass (kg)
500 t	280 t hook block plus a ten sheaves equalizer block	12 500
280 t	Ten sheaves	7 000
320 t	160 t hook block plus an eight sheaves equalizer block	7 900
160 t	Five sheaves	3 900
65 t	Two sheaves	* 3 000 / 2 000
15 t	Ball hook	950

\* : with auxiliary weight / without auxiliary weight

## Dimensions & Main Specifications : Liftcrane

### ■ Dimensions : Liftcrane



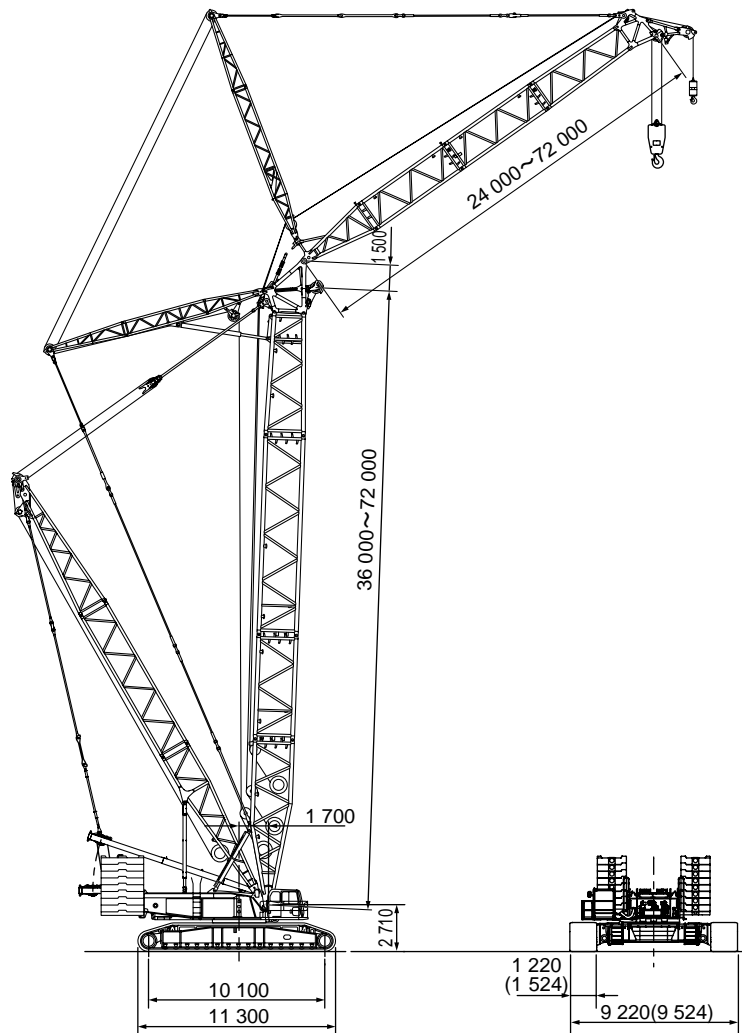
### ■ Main Spec. : Liftcrane

Front-end Attachment	Description		Spec.
Liftcrane	Heavy Duty Boom	Max. lifting capacity	t X m 428 X 7.3
		Basic Boom Length	m 36
		Max. Boom Length	m 96
	Long Range Boom	Max. lifting capacity	t X m 200 X 11.6
		Basic Boom Length	m 78
		Max. Boom Length	m 108
	Line Speed	Load Hoist Drum : W1,W2	m / min 110
		Boom Hoist Drum : W5	m / min 42
	Slewing Speed		min <sup>-1</sup> (rpm) 1.0 (1.0)
	Travel Speed		km / hr 1.5 / 1.3 / 0.6
Ground Pressure*		kPa(kgf / cm <sup>2</sup> ) 138 (1.40)	
Working Mass*		t 435	

\* : Including heavy duty basic boom, 500 t hook block, counterweight(160 t) and optional 1 524 mm wide shoes.

## Dimensions & Main Specifications : Luffing Tower

### ■ Dimensions : Luffing Tower



( ) : Optional 1 524 mm wide shoes.

### ■ Main Spec. : Luffing Tower

Front-end Attachment	Description		Spec.	
Luffing Tower	Max. lifting capacity		t X m 217 X 13.9	
	Basic Tower Length		m 36	
	Max. Tower Length		m 72	
	Basic Luffing Jib Length		m 24	
	Max. Luffing Jib Length		m 72	
	Max. Tower + Luffing Jib Length		m 72+72	
	Line Speed	Load Hoist Drums : W1,W2	m / min	110
		Tower Hoist Drum : W5	m / min	42
		Luffing Jib Hoist Drum : W4	m / min	49
	Slewing Speed		min <sup>-1</sup> (rpm) 1.0 (1.0)	
	Travel Speed		km / hr 1.5 / 1.3 / 0.6	
Ground Pressure*		kPa(kgf / cm <sup>2</sup> ) 151 (1.54)		
Working Mass*		t 476		

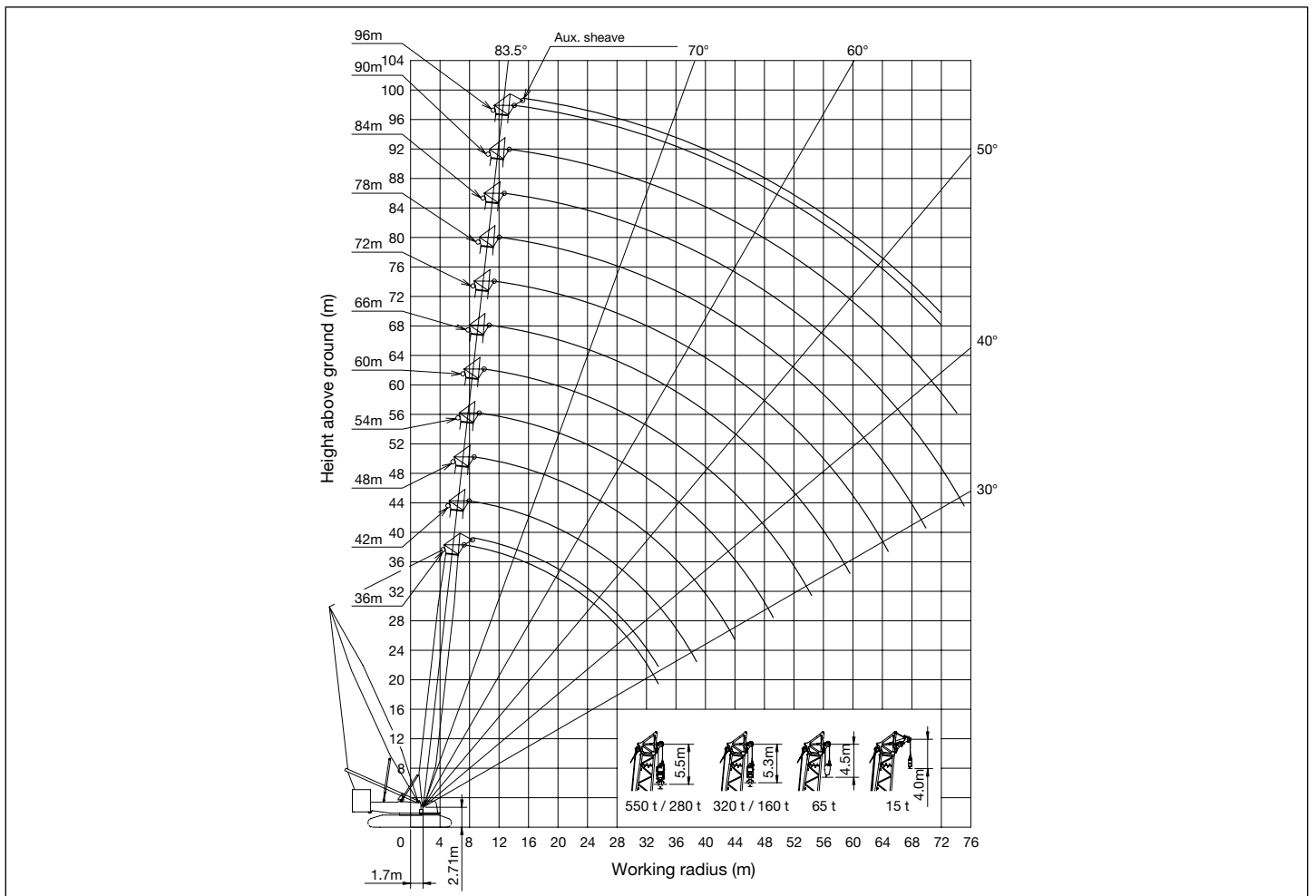
\* : Including 72 m Tower + 72 m Luffing Jib, counterweight(160 t) and optional 1 524 mm wide shoes.



## Boom Combinations

	Boom Combinations									
36 m	HB9.5	H6A	H12A	HR7	HT1.5					
42 m	HB9.5	H12A	H12B	HR7	HT1.5					
48 m	HB9.5	H6A	H12A	H12B	HR7	HT1.5				
54 m	HB9.5	H12A	H12B	H12C	HR7	HT1.5				
60 m	HB9.5	H6A	H12A	H12B	H12C	HR7	HT1.5			
66 m	HB9.5	H12A	H12B	H12C	HL12B	HR7	HT1.5			
72 m	HB9.5	H6A	H12A	H12B	H12C	HL12B	HR7	HT1.5		
78 m	HB9.5	H12A	H12B	H12C	HL12B	HL12B	HR7	HT1.5		
84 m	HB9.5	H6A	H12A	H12B	H12C	HL12B	HL12B	HR7	HT1.5	
90 m	HB9.5	H12A	H12B	H12C	HL12B	HL12B	HL12B	HR7	HT1.5	
96 m	HB9.5	H6A	H12A	H12B	H12C	HL12B	HL12B	HL12B	HR7	HT1.5

## Working Range Diagram







## SL-N H Boom Lifting Capacities

 160 t  50 t



(ton)

 (m)	36	42	48	54	60	66	72	78	84	90	96
 (m)											
7.3	411.0										
8.0	370.0	351.5	292.4 / 8.7	268.1 / 9.4							
10.0	286.5	271.5	251.5	250.5	233.0	216.4 / 10.7	190.0 / 11.4	169.0 / 12.1	159.6 / 12.7	143.4 / 13.4	
14.0	194.0	183.5	182.5	172.5	163.0	162.0	153.5	152.5	144.0	137.0	130.5 / 14.1
18.0	134.5	134.5	134.0	129.0	123.0	122.5	116.5	115.5	110.0	105.0	103.5
22.0	99.5	99.5	99.0	98.5	97.5	96.5	92.0	91.0	87.0	83.5	82.0
26.0	77.5	77.5	76.5	76.0	75.0	75.0	74.0	74.0	70.5	69.5	66.5
30.0	62.5	62.0	61.0	60.5	59.5	59.5	58.5	58.0	57.5	57.0	54.5
34.0	52.6 / 33.6	51.3	50.1	49.5	48.5	48.2	47.2	46.9	46.1	45.8	45.2
38.0		42.9	41.7	41.0	39.9	39.5	38.5	38.2	37.3	37.0	36.3
42.0		41.5 / 38.8	35.1	34.3	33.1	32.8	31.7	31.3	30.4	30.1	29.3
46.0			32.3 / 44.0	29.0	27.7	27.3	26.2	25.8	24.8	24.5	23.7
50.0				25.5 / 49.2	23.3	22.8	21.7	21.2	20.2	19.9	19.1
54.0					19.7	19.1	17.9	17.4	16.4	16.0	15.2
58.0					19.3 / 54.4	16.0	14.7	14.2	13.2	12.7	11.8
62.0						14.9 / 59.6	12.1	11.5	10.4	9.9	9.0
66.0							10.4 / 64.8	9.1	8.0	7.5	6.5
70.0								7.2 / 69.9	5.9	5.4	5.0 / 68.8
72.0									5.0	5.0 / 70.8	

## SL-N H Boom Lifting Capacities

 180 t  62 t (OPT.)

(ton)

 (m)	36	42	48	54	60	66	72	78	84	90	96
 (m)											
7.3	428.0										
8.0	385.5	386.0	324.0 / 8.7	297.5 / 9.4							
10.0	299.0	299.0	279.0	278.5	259.0	240.5 / 10.7	211.5 / 11.4	188.5 / 12.1	178.0 / 12.7	155.5 / 13.4	
14.0	198.0	199.0	198.5	192.5	182.0	181.0	171.5	170.5	161.5	153.5	130.5 / 14.1
18.0	143.5	144.0	143.0	142.5	138.0	137.0	131.0	130.0	124.0	118.5	117.0
22.0	111.0	110.5	109.0	109.0	108.0	108.0	104.0	103.0	98.5	95.0	93.0
26.0	87.0	86.0	84.5	84.0	83.5	84.0	83.5	83.5	80.5	79.5	76.0
30.0	70.5	69.5	68.0	67.5	66.5	67.0	66.5	66.0	65.5	65.0	63.0
34.0	59.7 / 33.6	57.6	56.0	55.3	54.2	54.8	54.2	53.8	52.9	52.6	51.9
38.0		48.6	46.8	46.0	44.9	45.3	44.6	44.2	43.3	43.0	42.2
42.0		47.1 / 38.8	39.8	38.8	37.6	37.9	37.1	36.7	35.7	35.4	34.6
46.0			36.9 / 44.0	33.1	31.7	31.9	31.1	30.6	29.6	29.2	28.4
50.0				29.4 / 49.2	27.0	27.1	26.1	25.6	24.6	24.2	23.3
54.0					23.2	23.0	22.0	21.5	20.4	20.0	19.1
58.0					22.8 / 54.4	19.7	18.5	18.0	16.8	16.4	15.4
62.0						18.5 / 59.6	15.6	15.0	13.8	13.3	12.3
66.0							13.8 / 64.8	12.4	11.2	10.6	9.6
70.0								10.3 / 69.9	8.9	8.3	7.3
74.0									7.0	6.3	5.2
76.9									6.5 / 75.1	5.0	5.0 / 74.5



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 2.0 ton mass of the auxiliary sheave and the mass of the "main hook" attached to the "boom" are deducted from the maximum rated load of the "Heavy Duty Boom Capacities." However, the maximum rated load of the auxiliary sheave is limited to 60 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "main hook" is the value remaining after the 2.0 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Heavy Duty Boom Capacities."
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)	Hook Weight (ton)	Maximum Rated Load ( ton )																			
		19 X 2Falls	18 X 2Falls	17 X 2Falls	16 X 2Falls	15 X 2Falls	14 X 2Falls	13 X 2Falls	12 X 2Falls	11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls					
550	Double-Reeling	12.5	-	-	-	428	412	388	364	339	314	288	262	235	208	180	-	-	-	-	-
320	Double-Reeling	7.9	-	-	-	-	-	-	-	320	314	288	262	235	208	180	151	-	-	-	-
			19 Falls	18 Falls	17 Falls	16 Falls	15 Falls	14 Falls	13 Falls	12 Falls	11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	251	240	229	217	206	194	182	170	157	144	131	118	104	-	-	-	-	-	-
160	Single-Reeling	3.9	-	-	-	-	-	-	-	-	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton)/Boom Length (m)		36	42	48	54	60	66	72	78	84	90	96	
550	Double-Reeling	Max.	16 x 2	14 x 2	12 x 2	11 x 2	9 x 2	9 x 2	8 x 2	7 x 2	6 x 2	6 x 2	-
		Min.	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2
320	Double-Reeling	Max.	12 x 2	12 x 2	12 x 2	11 x 2	9 x 2	9 x 2	8 x 2	7 x 2	6 x 2	6 x 2	5 x 2
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2
280	Single-Reeling	Max.	19	17	14	13	11	10	9	8	8	7	7
		Min.	7	7	7	7	7	7	7	7	7	7	7
160	Single-Reeling	Max.	11	11	11	11	11	10	9	8	8	7	7
		Min.	5	5	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-	



## Notes

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed. Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls	12 Falls	13 Falls	14 Falls	15 Falls	16 Falls	17 Falls	18 Falls	19 Falls
36 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
42 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	-	-
48 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	-	-	-	-	-
54 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	-	-	-	-	-	-
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1	-	-	-	-	-	-	-	-
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	-	-	-	-	-	-	-	-	-
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	-	-	-	-	-	-	-	-	-	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-	-	-	-	-	-	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-	-	-	-	-	-	-	-	-	-	-	-

11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.

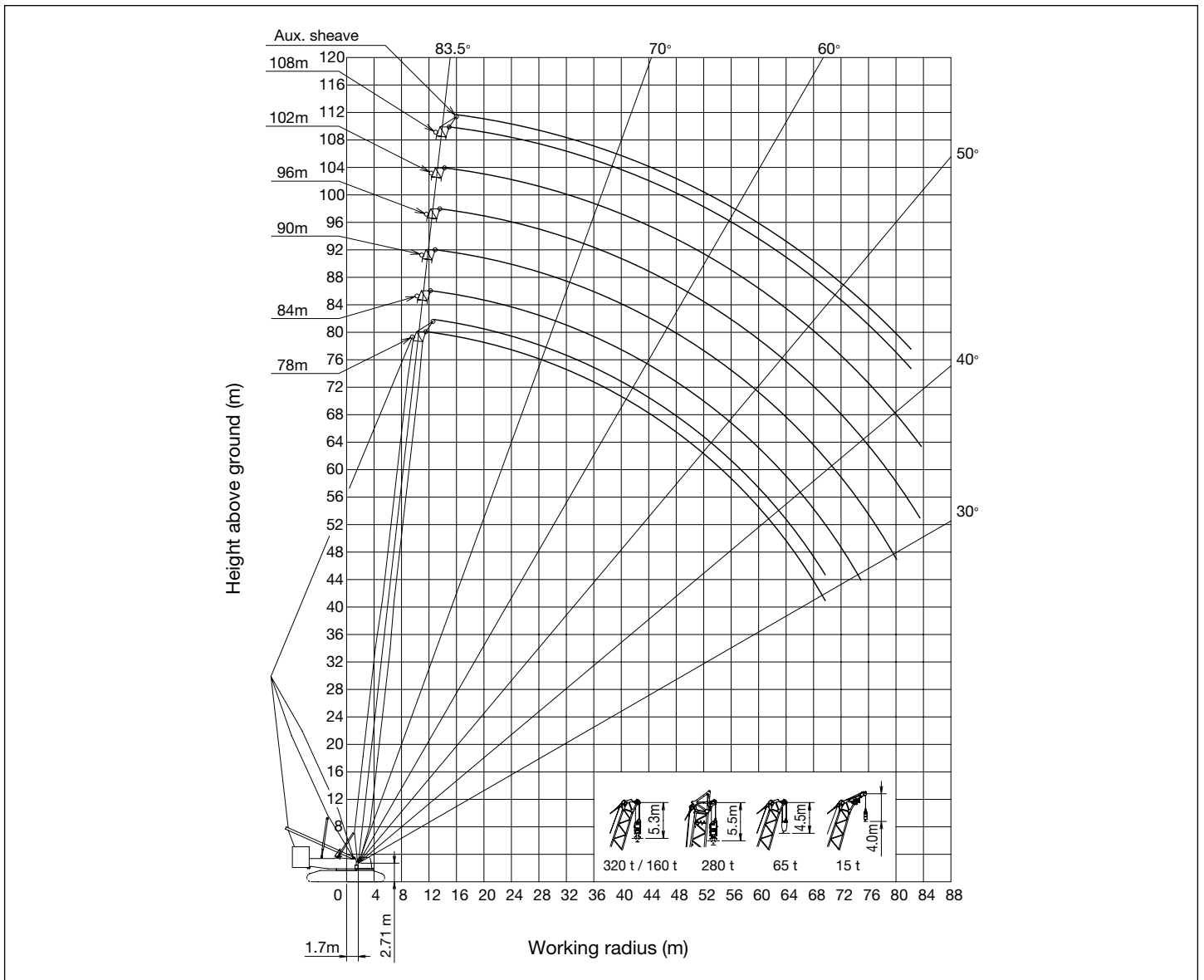
Boom Length (m)	36	42	48	54	60	66	72	78	84	90	96
Equivalent Mass (ton)	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.5




## Boom Combinations

	Boom Combinations
78 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HR7   LT7.5
84 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   LT7.5
90 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L6A   LT7.5
96 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L12A   LT7.5
102 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L6A   L12A   LT7.5
108 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L12A   L12B   LT7.5



## Working Range Diagram



 SL-N L Boom Lifting Capacities

 160 t  50 t



(ton)

 (m)	78	84	90	96	102	108
 (m)						
11.6	180.0					
12.0	174.0	169.0 / 12.3	153.0 / 12.9	140.0 / 13.6	118.0 / 14.3	98.5 / 15.0
16.0	136.0	130.0	124.0	124.5	117.5	97.5
20.0	106.5	102.5	98.0	98.5	94.5	93.5
24.0	86.5	83.0	82.0	80.5	77.0	77.0
28.0	69.0	68.5	68.0	67.0	64.0	64.0
32.0	55.5	55.0	55.0	55.5	54.0	54.0
36.0	45.9	45.5	45.0	45.8	45.4	45.3
40.0	38.2	37.8	37.3	38.0	37.6	37.5
44.0	32.1	31.7	31.2	31.8	31.3	31.2
48.0	27.2	26.7	26.1	26.7	26.2	26.1
52.0	23.1	22.6	22.0	22.4	22.0	21.8
56.0	19.6	19.1	18.5	18.9	18.4	18.2
60.0	16.7	16.2	15.5	15.8	15.3	15.1
64.0	14.2	13.6	12.9	13.2	12.7	12.5
68.0	12.1	11.4	10.7	10.9	10.3	10.2
72.0	11.3 / 69.7	9.6	8.7	8.9	8.3	8.1
76.0		8.4 / 74.9	7.0	7.2	6.5	6.3
80.0			5.6	5.6	5.0 / 79.8	5.0 / 79.3
81.8			5.5 / 80.1	5.0		

 SL-N L Boom Lifting Capacities

 180 t  62 t (OPT.)

(ton)

 (m)	78	84	90	96	102	108
 (m)						
11.6	200.0					
12.0	194.0	187.0 / 12.3	156.5 / 12.9	140.0 / 13.6	118.0 / 14.3	98.5 / 15.0
16.0	152.0	145.5	139.0	138.5	117.5	97.5
20.0	119.5	115.0	110.5	110.0	106.0	93.5
24.0	97.5	94.0	93.0	90.0	86.5	86.0
28.0	78.0	77.5	77.5	75.0	72.5	72.5
32.0	63.5	63.0	62.5	63.0	61.5	61.0
36.0	52.8	52.4	51.9	52.1	51.8	51.8
40.0	44.4	44.0	43.4	43.5	43.2	43.1
44.0	37.6	37.2	36.7	36.6	36.3	36.2
48.0	32.2	31.7	31.1	31.0	30.6	30.5
52.0	27.7	27.2	26.5	26.4	26.0	25.8
56.0	23.9	23.3	22.7	22.5	22.0	21.9
60.0	20.6	20.1	19.4	19.1	18.6	18.5
64.0	17.9	17.3	16.6	16.2	15.7	15.5
68.0	15.5	14.9	14.1	13.7	13.1	13.0
72.0	14.7 / 69.7	12.8	12.0	11.5	10.9	10.7
76.0		11.5 / 74.9	10.1	9.6	8.9	8.8
80.0			8.4	7.8	7.2	7.0
84.0			8.4 / 80.1	6.3	5.6	5.4
85.7				5.9 / 85.3	5.0	5.0 / 85.1



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the "main hook" attached to the "boom" are deducted from the maximum rated load of the "Long Range Boom Capacities." However, the maximum rated load of the auxiliary sheave is limited to 30 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "main hook" is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Long Range Boom Capacities."
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m.)

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )										
			11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls				
320	Double-Reeling	7.9	-	-	-	-	200	180	151	-	-	-	-
			-	-	-	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	-	-	-	118	104	90	-	-	-	-	
160	Single-Reeling	3.9	-	-	-	118	104	90	76	-	-	-	
65	Single-Reeling	3.0	-	-	-	-	-	-	65	61	46	31	
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton)/Boom Length (m)		78	84	90	96	102	108
320	Double-Reeling	Max.	7 x 2	7 x 2	6 x 2	5 x 2	5 x 2
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2
280	Single-Reeling	Max.	8	8	7	7	6
		Min.	6	6	6	6	6
160	Single-Reeling	Max.	8	8	7	7	6
		Min.	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5
		Min.	2	2	2	2	2
15	Single-Reeling	-	-	-	-	-	-



## Notes

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed.

Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	-	-	-
102 m	-	2.0	2.0	2.3	3.0	-	-	-	-
108 m	-	2.0	2.0	2.5	-	-	-	-	-

11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.

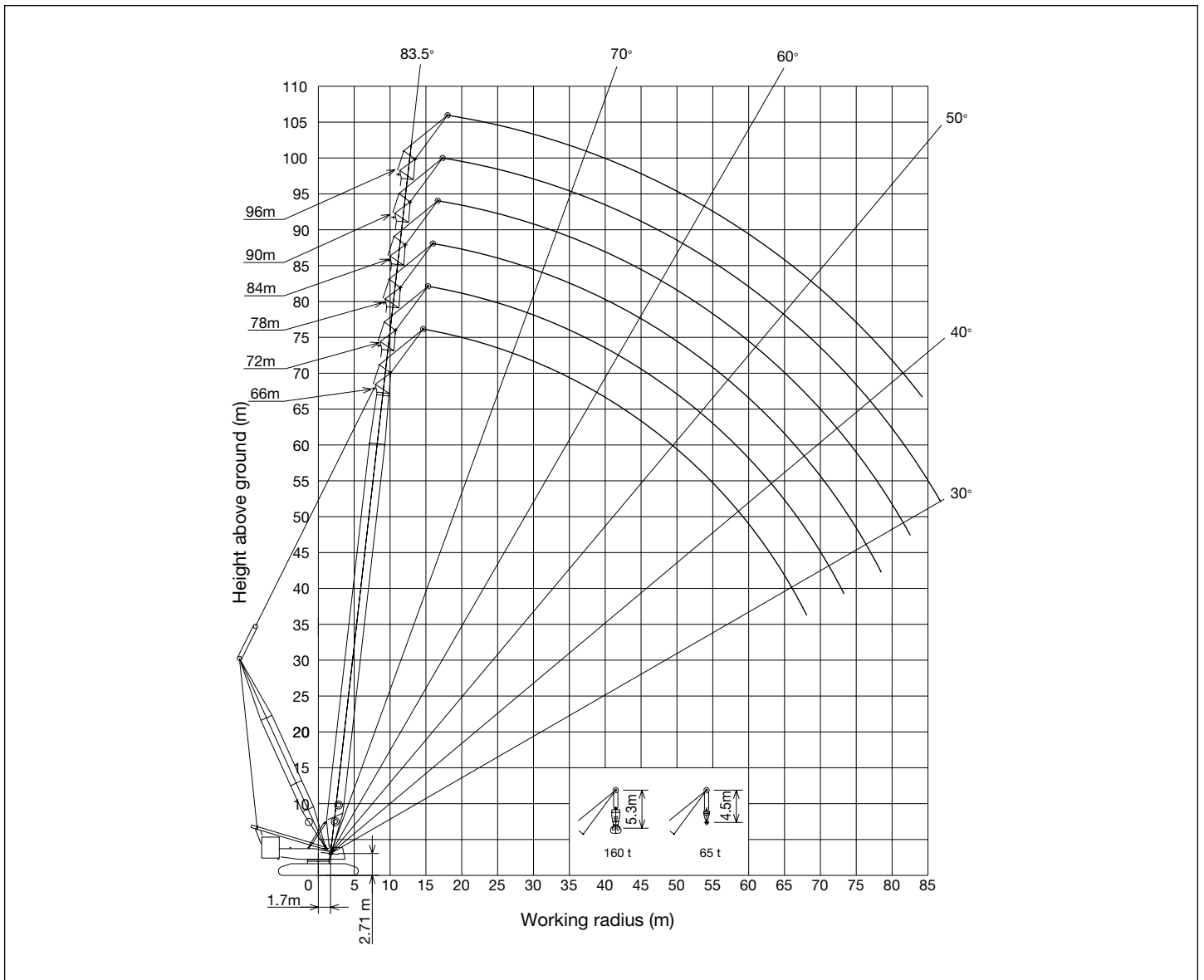
Boom Length (m)	78	84	90	96	102	108
Equivalent Mass (ton)	0.9	1.1	1.1	1.3	1.2	1.4



## Boom Combinations

Boom Combinations	
66 m	
72 m	
78 m	
84 m	
90 m	
96 m	

## Working Range Diagram









**SL-N 7.62 m Aux. Jib Lifting Capacity (for Windmill)**

 160 t  50 t



(ton)

 (m)	66	72	78	84	90	96
 (m)						
14.7	100.0	100.0 / 15.3				
16.0	100.0	100.0	100.0	100.0 / 16.7	100.0 / 17.4	90.0 / 18.1
20.0	100.0	100.0	100.0	99.5	98.5	90.0
24.0	88.5	87.5	84.0	80.5	79.5	76.0
28.0	73.0	72.0	69.5	66.5	66.0	63.0
32.0	59.5	58.5	58.0	57.0	55.0	52.5
36.0	49.6	48.6	48.0	47.0	46.3	44.7
40.0	41.7	40.6	40.0	38.9	38.3	37.2
44.0	35.3	34.2	33.6	32.5	31.8	30.7
48.0	30.1	29.0	28.4	27.3	26.6	25.4
52.0	25.8	24.6	24.0	22.9	22.2	21.0
56.0	22.1	21.0	20.4	19.2	18.5	17.3
60.0	18.9	17.8	17.2	16.0	15.3	14.1
64.0	16.2	15.0	14.4	13.3	12.5	11.3
68.0	13.8	12.6	12.0	10.9	10.1	8.9
72.0	13.7 / 68.1	10.5	9.9	8.7	8.0	6.8
76.0		9.9 / 73.3	8.0	6.8	6.1	5.0 / 75.7
80.0			6.9 / 78.5	5.1	5.0 / 78.7	
80.4				5.0		

**SL-N 7.62 m Aux. Jib Lifting Capacities (for Windmill)**

 180 t  62 t (OPT.)

(ton)

 (m)	66	72	78	84	90	96
 (m)						
14.7	100.0	100.0 / 15.3				
16.0	100.0	100.0	100.0	100.0 / 16.7	100.0 / 17.4	90.0 / 18.1
20.0	100.0	100.0	100.0	100.0	100.0	90.0
24.0	95.5	97.5	95.0	91.0	90.0	86.5
28.0	83.0	81.5	79.0	76.0	75.0	72.0
32.0	69.0	68.0	67.0	65.5	63.5	60.5
36.0	58.0	57.1	56.7	55.8	54.2	51.9
40.0	49.2	48.3	47.9	47.0	46.5	45.2
44.0	42.2	41.3	40.9	39.9	39.4	38.4
48.0	36.4	35.5	35.1	34.1	33.6	32.6
52.0	31.6	30.7	30.2	29.3	28.7	27.7
56.0	27.5	26.5	26.1	25.1	24.6	23.6
60.0	23.9	23.0	22.6	21.6	21.1	20.0
64.0	20.8	19.9	19.5	18.5	18.0	16.9
68.0	18.0	17.1	16.8	15.8	15.2	14.2
72.0	17.9 / 68.1	14.7	14.3	13.3	12.8	11.8
76.0		13.9 / 73.3	12.1	11.2	10.7	9.6
80.0			10.9 / 78.5	9.2	8.7	7.7
84.0				7.5 / 83.7	6.9	5.9
88.0					5.3	5.0 / 86.2
88.7					5.0	



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13000 Standards in terms of machine stability and structural strength limitations.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the mass of the “main hook” attached to the “Heavy Duty Auxiliary Tip Extension” are deducted from the maximum rated load of the “Heavy Duty Auxiliary Tip Extension Capacities.” However, the maximum rated load of the auxiliary sheave is limited to 15 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary hook is attached to the Auxiliary sheave, the maximum rated load of the “main hook” is the value remaining after the mass of the auxiliary hook are deducted from the maximum rated load of the “Heavy Duty Auxiliary Tip Extension Capacities.”
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )						
			7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Falls
160	Single-Reeling	3.9	100	90	76	-	-	-	-
65	Single-Reeling	*3.0 / 2.0	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-

\* : With auxiliary weights / Without auxiliary weights

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton) / Boom Length (m)		66	72	78	84	90	96
160	Single-Reeling	Max.	7	7	7	7	6
		Min.	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5
		Min.	2	2	2	2	2
15	Single-Reeling	-	-	-	-	-	-

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed. Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls
66 m	1.0	2.0	2.0	2.0	2.0	3.9	3.9
72 m	1.0	2.0	2.0	2.0	2.1	3.9	3.9
78 m	1.0	2.0	2.0	2.0	2.3	3.9	3.9
84 m	1.0	2.0	2.0	2.0	2.4	3.9	3.9
90 m	1.0	2.0	2.0	2.1	2.6	3.9	3.9
96 m	1.0	2.0	2.0	2.2	2.8	3.9	-

11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.

Boom Length (m)	66	72	78	84	90	96
Equivalent Mass (ton)	2.2	2.5	2.7	3.0	3.2	3.5





## Boom Combinations

Boom Combinations	
36 m	
42 m	
48 m	
54 m	
60 m	
66 m	
72 m	

Jib Combinations	
24 m	
30 m	
36 m	
42 m	
48 m	
54 m	
60 m	
66 m	
72 m	


## Boom Combinations

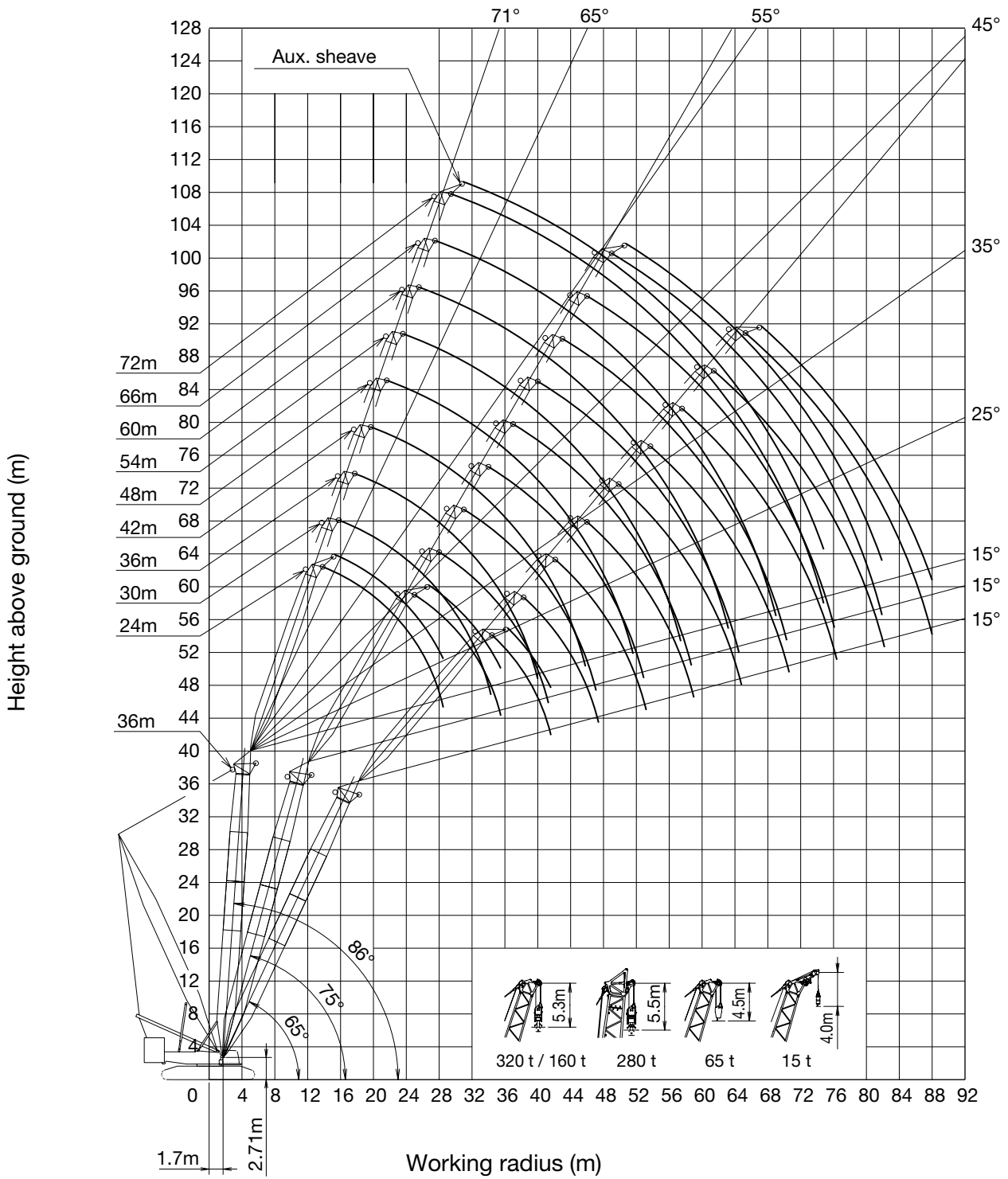
	24 m	30 m	36 m	42 m	48 m	54 m	60 m	66 m	72 m
36 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
42 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
48 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
54 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
60 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
66 m	×	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
72 m	×	×	⊙	⊙	⊙	⊙	⊙	⊙	⊙

\*The above-mentioned signs are as follows.

⊙ : Possible at 86° - 65°   ○ : Possible at 86° - 75°   × : No setting

# Working Range Diagram

 Tower length 36 m

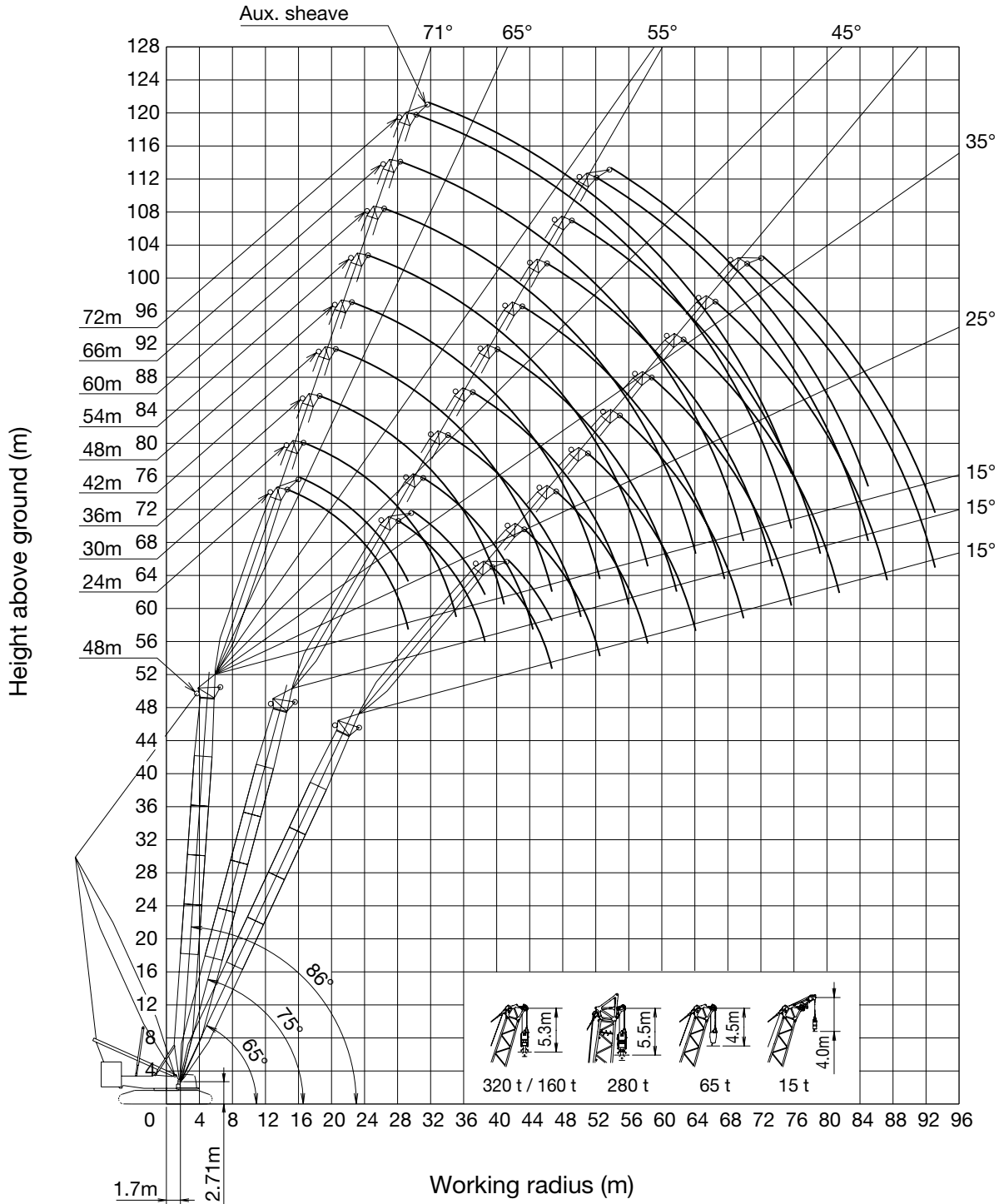





## Working Range Diagram

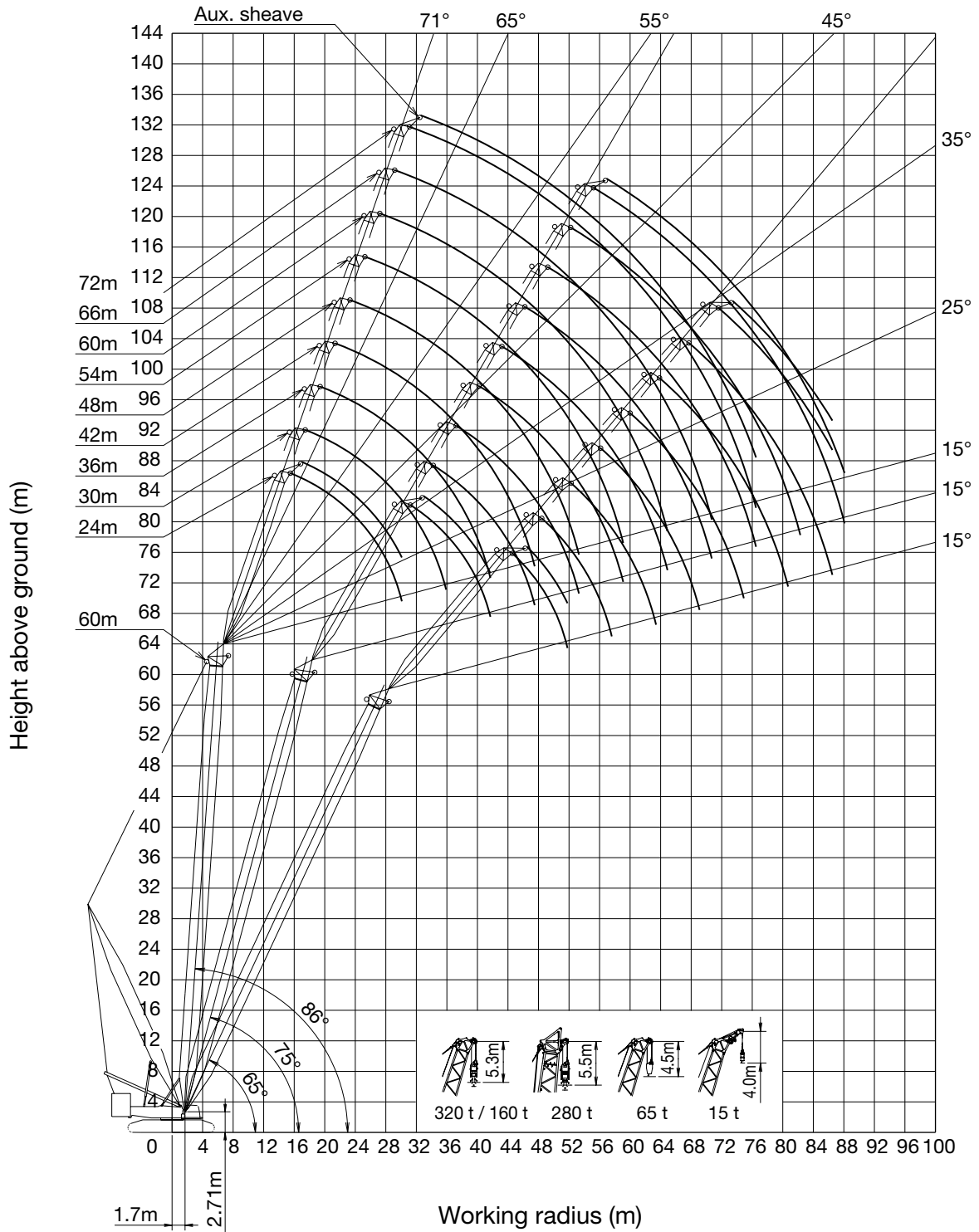


Tower length 48 m



# Working Range Diagram

 Tower length 60 m

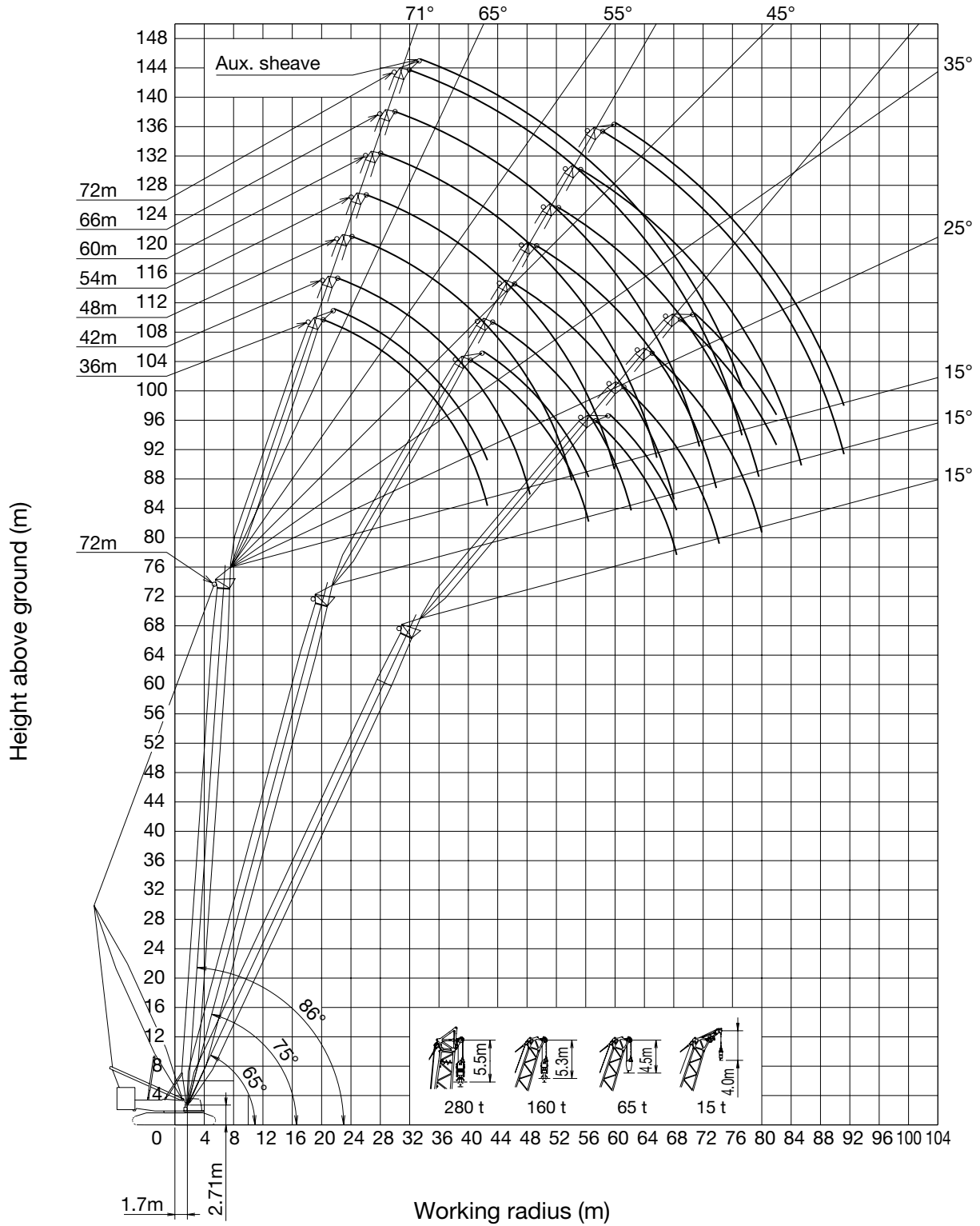




## Working Range Diagram




Tower length 72 m










 SL-N Luffing Jib Lifting Capacity



 36 m  160 t  50 t w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48 m			60 m			72 m			
	 (m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
13.9	208.2															
14.0	206.5															
16.0	178.4			156.6 / 17.8												
18.0	154.8			154.2												
20.0	133.9			133.3			118.2 / 21.7									
22.0	117.8			117.1			116.0									
24.0	104.8	89.7 / 25.0		104.2			103.1			93.7 / 25.6						
26.0	94.3	85.2		93.7			92.5			91.8						
28.0	85.5	77.2		84.9			83.7			83.0			74.2 / 29.5			
30.0	83.4 / 28.5	70.4		77.5	66.2 / 31.0		76.3			75.5			73.5			
34.0		59.6	52.8 / 34.5	65.7	58.4		64.4	50.5 / 37.0		63.6			62.7			
38.0		56.3 / 35.5	46.3	56.7	50.3		55.4	48.6		54.5			53.6			
42.0			40.9 / 41.6		43.9	38.6 / 42.2	48.3	42.2		47.4	39.8 / 43.0		46.4			
46.0					38.7	34.2	42.6	37.0	28.5 / 49.9	41.6	36.0		40.6	31.5 / 49.0		
50.0					37.4 / 47.1	30.3	37.9	32.8	28.4	36.9	31.7		35.9	30.5		
54.0						27.7 / 53.2	36.2 / 51.6	29.3	25.2	32.9	28.1	21.5 / 57.6	31.9	26.9		
58.0								26.3	22.5	29.6	25.1	21.3	28.5	23.9		
62.0								25.8 / 58.7	20.2	26.7	22.5	18.9	25.5	21.3	15.9 / 65.3	
66.0									18.8 / 64.8	25.9 / 63.2	20.3	16.9	23.0	19.0	15.5	
70.0											18.3	15.1	20.8	17.0	13.7	
74.0											18.2 / 70.3	13.6	18.9	15.3	12.2	
78.0												12.8 / 76.4	18.5 / 74.8	13.7	10.8	
82.0														12.4 / 81.9	9.5	
86.0															8.4	
88.0															7.9	

 48 m  160 t  50 t w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48 m			60 m			72 m			
	 (m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
14.7	193.6															
16.0	176.4															
18.0	153.8			146.0 / 18.6												
20.0	133.1			132.1												
22.0	117.0			116.0			111.0 / 22.5									
24.0	104.1			103.1			102.0									
26.0	93.6			92.6			91.5			82.6 / 26.4						
28.0	84.8	73.0 / 28.2		83.9			82.7			81.4						
30.0	79.8 / 29.3	67.2		76.6			75.4			75.0			65.7 / 30.3			
34.0		56.8		64.8	54.7 / 34.2		63.6			63.2			61.9			
38.0		48.8	39.6 / 39.5	55.8	47.3		54.6	42.0 / 40.2		54.2			52.9			
42.0		47.8 / 38.6	36.3	50.6 / 40.9	41.1		47.5	39.4		47.1			45.8			
46.0			31.9		36.2	28.7 / 47.3	41.8	34.5		41.3	33.6 / 46.2		40.1			
50.0			31.2 / 46.7		32.1	26.4	37.2	30.4		36.6	29.7		35.3	26.2 / 52.2		
54.0					31.9 / 50.2	23.4	34.7 / 52.5	27.0	20.8 / 55.0	32.6	26.3		31.4	24.8		
58.0						20.9		24.1	19.0	29.3	23.4		28.0	21.9		
62.0						20.8 / 58.3		21.8 / 61.8	16.9	26.4	20.9	15.6 / 62.7	25.1	19.4		
66.0									15.0	25.0 / 64.1	18.7	14.1	22.6	17.2		
70.0									13.5 / 69.9		16.8	12.5	20.4	15.3	10.7 / 70.4	
74.0											15.4 / 73.4	11.0	18.4	13.7	9.4	
78.0												9.8	17.7 / 75.7	12.2	8.2	
82.0												8.8 / 81.5		10.9	7.0	
86.0														10.0 / 85.0	6.0	
90.0															5.1	
90.5															5.0	



## SL-N Luffing Jib Lifting Capacity

60 m 160 t 50 t w / o Heavy head sheave block

(ton)




(m)	24 m			36 m			48 m			60 m			72 m	
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°
15.5	153.7													
16.0	152.6													
18.0	148.1			116.2 / 19.5										
20.0	132.0			115.5										
22.0	116.0			112.4			85.8 / 23.4							
24.0	103.3			102.3			85.2							
26.0	92.8			91.9			83.1			66.6 / 27.3				
28.0	84.1			83.3			81.1			66.1				
30.0	76.6	59.7 / 31.3		76.0			75.7			64.7			52.5 / 31.2	
34.0	76.3 / 30.1	53.3		64.3	45.3 / 37.3		64.0			61.9			51.2	
38.0		45.8		55.3	44.1		55.0			53.7			49.3	
42.0		40.1 / 41.7	28.8 / 44.6	48.8 / 41.7	38.3		47.9	35.7 / 43.3		46.6			45.4	
46.0			27.5		33.6		42.2	32.7		40.9	27.8 / 49.3		39.7	
50.0			24.2		29.7	20.7 / 52.3	37.5	28.8		36.2	27.2		35.0	
54.0			22.8 / 51.8		26.9 / 53.3	19.6	34.2 / 53.3	25.5		32.3	24.0		31.1	21.6 / 55.3
58.0						17.3		22.8	15.2 / 60.0	28.9	21.2		27.7	19.8
64.0						14.8 / 63.4		19.3	13.4	24.8	17.8		23.6	16.4
66.0								18.8 / 64.9	12.6	24.2 / 64.9	16.8	10.2 / 67.8	22.3	15.4
68.0									11.8		15.9	10.1	21.2	14.5
70.0									11.1		15.0	9.4	20.1	13.6
72.0									10.4		14.2	8.8	19.1	12.8
74.0									9.8		13.4	8.1	18.2	12.0
76.0									9.5 / 74.9		12.7	7.6	17.3	11.3
78.0											12.6 / 76.5	7.0	17.1 / 76.5	10.6
80.0												6.5		10.0
82.0												6.0		9.4
84.0												5.5		8.8
86.0												5.1		8.2
88.0												5.0 / 86.5		7.7
88.1														7.7

72 m 160 t 50 t w / o Heavy head sheave block



(ton)




(m)	36 m			48 m			60 m		72 m	
	86°	75°	65°	86°	75°	65°	86°	75°	86°	75°
20.3	83.8									
22.0	82.0									
24.0	79.9			67.1 / 24.2						
26.0	77.5			65.7						
28.0	75.3			64.2			50.1 / 28.1			
30.0	73.2			62.6			49.1		40.4 / 32.0	
34.0	63.7			59.4			47.0		39.6	
38.0	55.5	38.1 / 40.4		54.5			44.8		38.2	
42.0	48.6	36.0		47.5			42.7		36.6	
46.0	47.6 / 42.6	31.6		41.8	29.3 / 46.4		40.5		35.1	
50.0		27.9		37.1	26.1		35.9	22.7 / 52.4	33.7	
54.0		24.8	14.6 / 57.4	33.2	23.1		32.0	21.5	30.9	
58.0		23.1 / 56.4	14.3	33.1 / 54.1	20.5		28.7	19.0	27.6	17.3 / 58.4
62.0			12.6		18.2	9.4 / 65.1	25.8	16.8	24.7	15.3
66.0			11.0		16.3	9.1	23.5 / 65.7	14.8	22.2	13.4
70.0			10.2 / 68.4		15.4 / 68.0	7.8		13.2	20.0	11.8
74.0						6.7		11.7	18.0	10.3
78.0						5.7		10.3	16.6 / 77.3	9.0
82.0						5.2 / 80.0		9.8 / 79.6		7.8
86.0										6.7
90.0										5.8
91.2										5.5

 SL-N Luffing Jib Lifting Capacity



 36 m  180 t  62 t (OPT.) w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48 m			60 m			72 m			
	 (m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
13.9	217.0															
14.0	215.3															
16.0	184.5			164.5 / 17.8												
18.0	160.5			162.5												
20.0	141.8			144.6			126.6 / 21.7									
22.0	126.8			129.5			124.6									
24.0	114.5	100.1 / 25.0		115.3			112.2			102.6 / 25.6						
26.0	104.2	95.2		103.7			101.9			100.9						
28.0	94.6	86.4		94.1			92.9			92.2			74.2 / 29.5			
30.0	91.0 / 28.5	78.9		86.0	74.3 / 31.0		84.8			84.0			73.5			
34.0		67.0	60.0 / 34.5	73.0	65.8		71.8	57.1 / 37.0		71.0			68.6			
38.0		63.3 / 35.5	52.8	63.2	56.7		61.9	55.1		61.0			60.1			
42.0			46.7 / 41.6	59.0 / 40.0	49.6	44.4 / 42.2	54.1	48.0		53.2	45.4 / 43.0		52.2			
46.0				43.9	39.4	47.8	42.3	33.3 / 49.9	46.9	41.2			45.9	36.4 / 49.0		
50.0				42.5 / 47.1	35.1	42.7	37.6	33.2	41.7	36.5			40.6	35.3		
54.0					32.1 / 53.2	40.9 / 51.6	33.6	29.6	37.3	32.5	25.6 / 57.6		36.3	31.3		
58.0								30.3	26.5	33.6	29.2	25.3	32.5	27.9		
62.0								29.8 / 58.7	24.0	30.5	26.3	22.7	29.3	25.1	19.4 / 65.3	
66.0									22.4 / 64.8	29.6 / 63.2	23.8	20.4	26.6	22.5	19.1	
70.0											21.7	18.4	24.1	20.3	17.1	
74.0											21.5 / 70.3	16.7	22.0	18.4	15.3	
78.0												15.8 / 76.4	21.6 / 74.8	16.7	13.7	
82.0														15.2 / 81.9	12.4	
86.0															11.1	
88.0															10.6	

 48 m  180 t  62 t (OPT.) w / o Heavy head sheave block

(ton)

 (m)	24 m			36 m			48 m			60 m			72 m			
	 (m)	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°
14.7	201.9															
16.0	183.4															
18.0	159.6			152.2 / 18.6												
20.0	141.0			139.6												
22.0	126.0			124.7			111.0 / 22.5									
24.0	113.7			112.5			109.1									
26.0	103.4			102.2			100.9			82.6 / 26.4						
28.0	94.0	82.1 / 28.2		93.1			91.9			81.4						
30.0	88.5 / 29.3	75.7		85.0			83.8			79.9			65.7 / 30.3			
34.0		64.2		72.1	62.0 / 34.2		70.9			69.0			63.3			
38.0		55.3	45.8 / 39.5	62.3	53.8		61.1	48.1 / 40.2		59.2			59.2			
42.0		54.1 / 38.6	42.1	56.5 / 40.9	46.9		53.3	45.2		51.4			51.6			
46.0			37.1		41.4	33.8 / 47.3	47.1	39.7		45.2	37.3 / 46.2		45.3			
50.0			36.3 / 46.7		36.9	31.2	42.0	35.2		40.1	33.1		40.1	30.8 / 52.2		
54.0					36.7 / 50.2	27.8	39.2 / 52.5	31.4	25.1 / 55.0	35.8	29.3		35.7	29.2		
58.0						25.0		28.2	23.0	32.2	26.1		32.0	25.9		
62.0						24.8 / 58.3		25.6 / 61.8	20.6	29.1	23.4	18.1 / 62.7	28.9	23.2		
66.0									18.6	27.7 / 64.1	21.1	16.4	26.1	20.8		
70.0									16.9 / 69.9		19.1	14.6	23.7	18.7	14.0 / 70.4	
74.0											17.6 / 73.4	13.1	21.6	16.8	12.6	
78.0												11.7	20.8 / 75.7	15.1	11.1	
82.0												10.8 / 81.5		13.7	9.9	
86.0														12.7 / 85.0	8.7	
90.0															7.7	
93.1															7.0	



## SL-N Luffing Jib Lifting Capacity

60 m 180 t 62 t (OPT.) w / o Heavy head sheave block

(ton)

(m)	24 m			36 m			48 m			60 m			72 m	
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°
15.5	153.7													
16.0	152.6													
18.0	148.1			116.2 / 19.5										
20.0	139.7			115.5										
22.0	124.8			112.4			85.8 / 23.4							
24.0	112.6			109.3			85.2							
26.0	102.4			101.3			83.1			66.6 / 27.3				
28.0	93.3			92.5			81.1			66.1				
30.0	85.1	67.7 / 31.3		84.4			79.0			64.7			52.5 / 31.2	
34.0	84.7 / 30.1	60.7		71.6	51.9 / 37.3		69.9			61.9			51.2	
38.0		52.2		61.8	50.6		60.1			59.1			49.3	
42.0		46.0 / 41.7	34.3 / 44.6	54.6 / 41.7	44.1		52.4	39.9 / 43.3		52.4			47.4	
46.0			32.8		38.8		46.2	36.5		46.2	32.7 / 49.3		44.6	
50.0			29.0		34.4	25.2 / 52.3	41.1	32.2		41.0	32.0		39.4	
54.0			27.4 / 51.8		31.4 / 53.3	24.0	37.6 / 53.3	28.6		36.7	28.4		35.1	25.5 / 55.3
58.0						21.4		25.6	17.8 / 60.0	33.0	25.3		31.4	23.5
62.0						19.2		23.0	16.7	29.8	22.7		28.3	20.8
66.0						18.5 / 63.4		21.4 / 64.9	14.9	27.8 / 64.9	20.4	13.6 / 67.8	25.6	18.6
70.0									13.3		18.4	12.7	23.2	16.6
74.0									11.9		16.6	11.3	21.1	14.8
78.0									11.6 / 74.9		15.6 / 76.5	10.0	19.9 / 76.5	13.3
82.0												8.8		11.9
86.0												7.8		10.7
88.1												7.7 / 86.5		10.1

72 m 180 t 62 t (OPT.) w / o Heavy head sheave block

(ton)

(m)	36 m			48 m			60 m			72 m	
	86°	75°	65°	86°	75°	65°	86°	75°	65°	86°	75°
20.3	83.8										
22.0	82.0										
24.0	79.9			67.1 / 24.2							
26.0	77.5			65.7							
28.0	75.3			64.2			50.1 / 28.1				
30.0	73.2			62.6			49.1			40.4 / 32.0	
34.0	63.7			59.4			47.0			39.6	
38.0	55.5	44.1 / 40.4		56.5			44.8			38.2	
42.0	48.9	41.8		50.9			42.7			36.6	
46.0	47.9 / 42.6	36.8		45.8	34.2 / 46.4		40.5			35.1	
50.0		32.7		41.5	30.5		36.9	26.8 / 52.4		33.7	
54.0		29.2	18.7 / 57.4	37.3	27.1		33.9	25.5		32.3	
58.0		27.3 / 56.4	18.4	37.2 / 54.1	24.2		31.3	22.7		31.1	20.9 / 58.4
62.0			16.4		21.7	12.7 / 65.1	29.1	20.2		28.1	18.7
66.0			14.6		19.5	12.3	26.7 / 65.7	18.0		25.4	16.6
70.0			13.6 / 68.4		18.5 / 68.0	10.8		16.1	8.2 / 72.8	23.0	14.7
74.0						9.5		14.5	7.8	20.9	13.0
78.0						8.4		13.0	6.7	19.3 / 77.3	11.6
82.0						7.8 / 80.0		12.5 / 79.6	5.7		10.3
86.0									5.0 / 85.0		9.1
90.0											8.0
91.2											7.7

## 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 rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations. ; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 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.
- The maximum rated load of the auxiliary sheave is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the "luffing jib hook" attached to the "luffing jib" are deducted from the maximum rated load of the "Luffing Jib Capacities." However, the maximum rated load of the auxiliary sheave is limited to 30 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the luffing jib hook.
- If the auxiliary sheave is attached, the maximum rated load of the "luffing jib hook" is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Luffing Jib Capacities."
- If the heavy head sheave block is attached, the maximum rated load of the "luffing jib hook" is the value remaining after the 3.0 ton mass of the heavy head sheave block and the mass of the "luffing boom hook" attached to the heavy head sheave block are deducted from the "Luffing jib Maximum Rated Load" value.
- The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load
- Luffing Boom and Luffing Jib tilt angle ranges are according to the working range diagram.
- The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m.)

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )												
			8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls									
320	Double-Reeling	7.9	217	208	180	151	-	-	-	-					
			13 Falls	12 Falls	11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	-	-	157	144	131	118	104	90	-	-	-	-	-
160	Single-Reeling	3.9	-	-	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	3.0	-	-	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-

- The chart below shows the operable windings based on the length of each boom.

Tower Length (m)		36									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	8 x 2	7 x 2	6 x 2	5 x 2	5 x 2	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2				
280	Single-Reeling	Max.	11	11	10	9	8	8	7	6	-
		Min.	6	6	6	6	6	6	6	6	
160	Single-Reeling	Max.	11	11	10	9	8	8	7	6	5
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-

Tower Length (m)		48									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	7 x 2	6 x 2	6 x 2	5 x 2	5 x 2	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2				
280	Single-Reeling	Max.	10	9	8	8	7	7	6	6	-
		Min.	6	6	6	6	6	6	6	6	
160	Single-Reeling	Max.	10	9	8	8	7	7	6	6	5
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-



## Notes

Tower Length (m)		60									
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	
320	Double-Reeling	Max.	6 x 2	5 x 2	5 x 2	5 x 2	-	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2	5 x 2					
280	Single-Reeling	Max.	8	8	7	6	6	-	-	-	-
		Min.	6	6	6	6	6				
160	Single-Reeling	Max.	8	8	7	6	6	5	5	-	-
		Min.	5	5	5	5	5	5	5		
65	Single-Reeling	Max.	5	5	5	5	5	5	5	4	4
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-

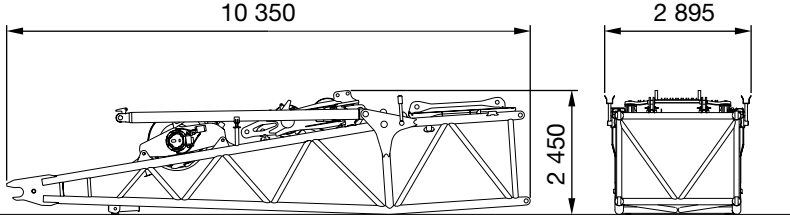
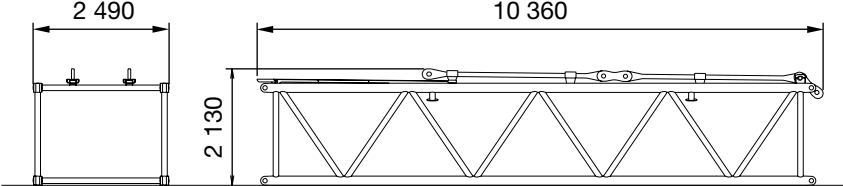
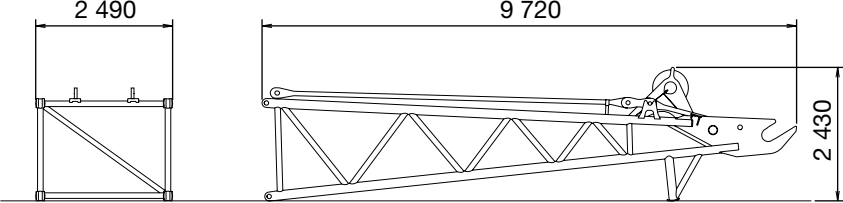
Tower Length (m)		72							
Hook Capacity (ton) / Jib Length (m)		36	42	48	54	60	66	72	
280	Single-Reeling	Max.	6	-	-	-	-	-	-
		Min.	6						
160	Single-Reeling	Max.	6	5	5	-	-	-	-
		Min.	5	5	5				
65	Single-Reeling	Max.	5	5	5	4	4	3	3
		Min.	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-

11. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed.

Please select a hook that can be lowered based on the boom length and number of windings.

Tower Length + Luffing Jib Length	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls	12 Falls
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1	7.0
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	4.5	-
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	4.4	-	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	4.2	-	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	4.3	-	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-	-	-	-	-
102 m	-	2.0	2.0	2.3	3.0	3.9	-	-	-	-	-	-
108 m	-	2.0	2.0	2.5	3.1	-	-	-	-	-	-	-
114 m	-	2.0	2.0	2.6	3.3	-	-	-	-	-	-	-
120 m	-	2.0	2.0	2.8	-	-	-	-	-	-	-	-
126 m	-	2.0	2.1	2.9	-	-	-	-	-	-	-	-
132 m	-	2.0	2.3	-	-	-	-	-	-	-	-	-
138 m	-	2.0	2.4	-	-	-	-	-	-	-	-	-
144 m	-	2.0	2.5	-	-	-	-	-	-	-	-	-

## SL Attachments

Description	Q'ty	Dimensions (mm)	Mass (kg)
<p>MB 10 Long Mast Base</p>	<p>1</p>		<p>16 400</p>
<p>MB 10 Long Mast Extension</p>	<p>1</p>		<p>3 900</p>
<p>MT 9 Long Mast Top</p>	<p>1</p>		<p>4 600</p>

- 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 Unit as old one.
- 

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# 6000SLX

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**Superlift**

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**SL-T**  
**Specifications**

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## Contents

<b>Specifications</b>	.....	3-4
<b>Symbols</b>	.....	4
<b>Outline</b>	■ Winch Assignment .....	5
	■ Dimensions & Main Specifications : Liftcrane .....	6
	■ Dimensions & Main Specifications : Luffing Tower .....	7
<b>Liftcrane Heavy Duty Boom</b>	■ Boom Combinations .....	8
	■ Working Range Diagram .....	8
	■ Capacities .....	9
	■ Notes .....	10-11
<b>Liftcrane Long Range Boom</b>	■ Boom Combinations .....	12
	■ Working Range Diagram .....	12
	■ Capacities .....	13
	■ Notes .....	14-15
<b>Luffing Tower</b>	■ Boom Combinations .....	16-17
	■ Working Range Diagram .....	18-22
	■ Capacities .....	23-27
	■ Notes .....	28-29
<b>Transport Data</b>	.....	30-31

## Specifications

### Engine

- Model : Isuzu 6WG1
- Type : 4-cycle, water-cooled, direct injection, turbo-charged, diesel engine
- Displacement : 15 681 cc
- Rated Output : 397 kW / 1 800 min<sup>-1</sup>  
(540 ps / 1 800 rpm)
- Fuel Tank : 800 liters
- Electrical System : 24 V D.C., 2 batteries

#### Notes:

- 1 Engine meets Stage / Tier 3 of current smoke emission regulations in Europe, United States and Japan.
- 2 The 397 kW engine horsepower shown above is based on an international engine horsepower rating formula that includes the horsepower necessary for engine alternator drive but excludes engine fan drive.

### Control

- Control System : Control levers operate remote-controlled hydraulic servos that direct oil through six sets of tandem valves to provide comprehensive motion control.
- Control Levers : Ergonomic lever layout enables efficient operation. Joystick lever on left side controls slewing and boom hoist. Arm-chair levers on right side control hoist 1 & 2, luffing jib hoist, travel and long-mast hoist. Main winch levers are equipped with drum rotation sensors.
- Slewing Brake Pedal: Designed to be maintenance free while resisting overheating. Unique brake design of hydraulic oil control system makes it possible to smoothly initial slewing motion, even against the wind.
- Display Panel Design : Graphics on the display panel makes it easy to input the necessary operating conditions and data according to actual lifting and working conditions.

### Hydraulic System

Three variable-displacement axial piston pumps and one fixed-displacement tandem gear pump provide power for independent and combined operations for all functions.

- Hydraulic Reservoir Capacity : 800 liters

### Load Hoist Drums (W1, W2)

Independent bi-directional hydraulic motors provide power through a two-stage planetary reduction gear unit to drive the two main hoisting drums for hoisting and lowering operations.

Cables : 28mm dia. / 800 m long.

### Long Mast Hoist Drum (W3)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the long mast.

Cables : 28 mm dia.

### Luffing Jib Hoist Drum (W4)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the luffing jib.

Cables : 28 mm dia.

### Boom Hoist Drum (W5)

A single bi-directional axial piston hydraulic motor powers a 3-stage planetary reduction gear unit that drives the rope drum to either hoist or lower the boom.

Cables : 28 mm dia.

## Specifications

### Slewing System

Slewing system is designed so that the three slewing pinions mesh with the external slewing ring gear. With this design, the external slewing gears bears the majority of the slewing torque. The system is designed to be easy to lubricate.

### Counterweight

Standard 160 ton counterweight consists of a 20-ton base weight and 14 cast iron block pieces that all have the same dimensions.

Optional 180-ton weight uses two additional weights in addition to standard counterweight.

### Lower Weight

50-ton weight is standard  
62-ton weight is option

### Side Frames

All welded structures are manufactured from high-strength steel. Each component is equipped with two steel plate hooks to make assembling on lower frame lower. Side frame is secured by removable joint pins provided on the lower frame.

- Shoe width : 1 220 mm wide is standard.  
1 524 mm wide is option.
- Drive unit : 2-track drive unit per side frame.

### Safety Device

- Load Moment Indicator (LMI) : The computerized system helps prevent overloads and provide safe and efficient control. Meets both EN and BS standards.
- Front-end Attachment. Erection Mode : This is an internal function of the Load Moment Indicator (LMI). It gives a warning on the LMI panel that the crane has extended beyond its intended working area. Once the work outside the intended working area is completed, the system returns automatically to resume work in the intended working range.
- Hydraulic Boom Backstops : These stops operate in conjunction with LMI to help prevent backward reaction, especially when operating with short boom lengths or against winds.
- Boom Over-hoist and Over-lowering Limiting Device : This is a combination of two systems designed to enhance operating efficiency. One system is a limit switch that is incorporated into the boom foot to prevent over hoisting. The other is a part of the LMI that prevents over-hoisting or over-lowering the boom. It includes automatic drum braking, hydraulic locks and alarm warnings.
- Drum Locks : Electrically operated pawl locks are provided as standard on all drums.

## Symbols



Capacity



Working Radius



Counterweight



Lower Weight



SL-N



SL-T



Heavy Duty Boom



Heavy Duty Boom Length



Long Range Boom



Long Range Boom Length

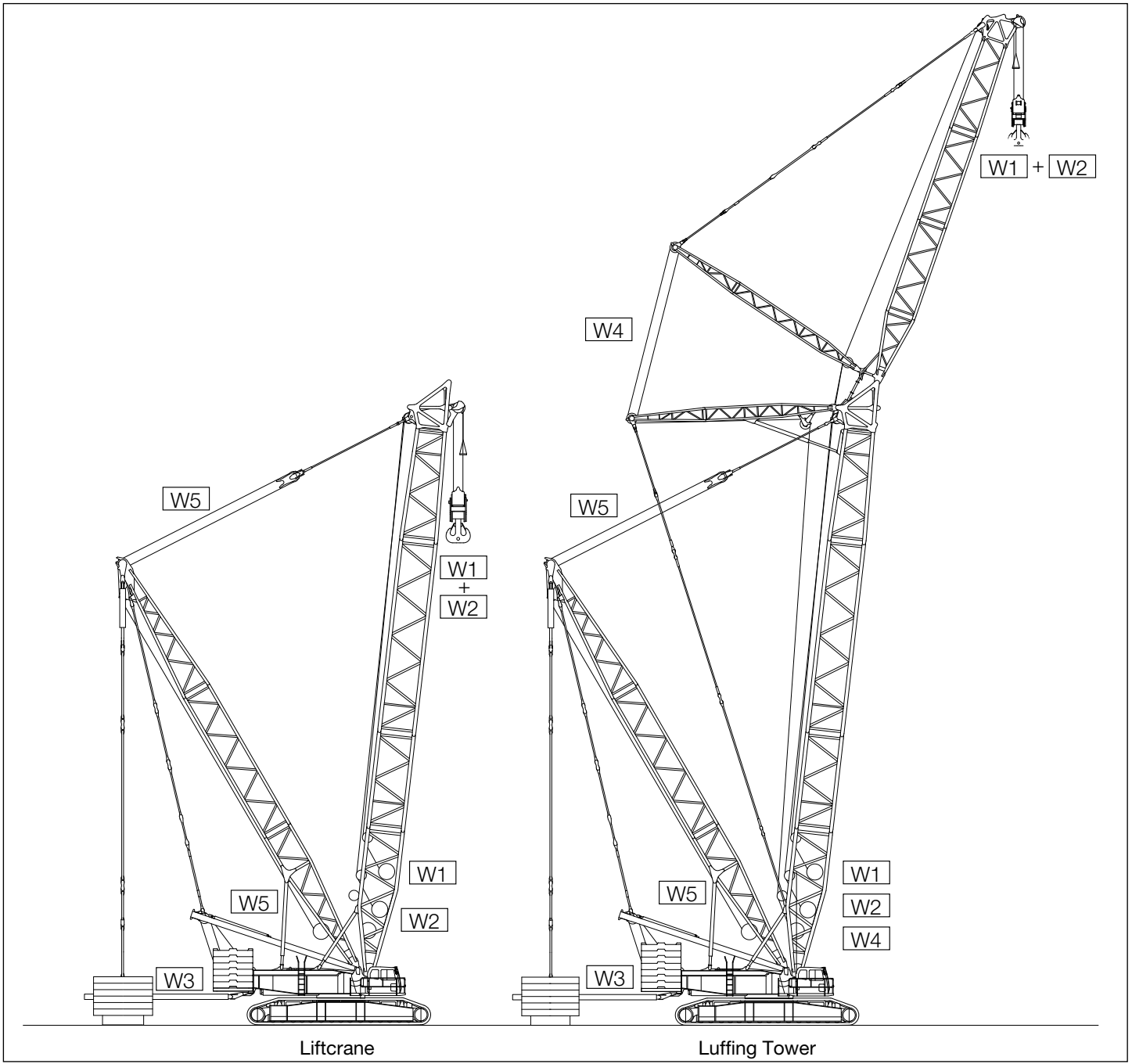


Luffing Jib



Luffing Jib Length

# Winch Assignment



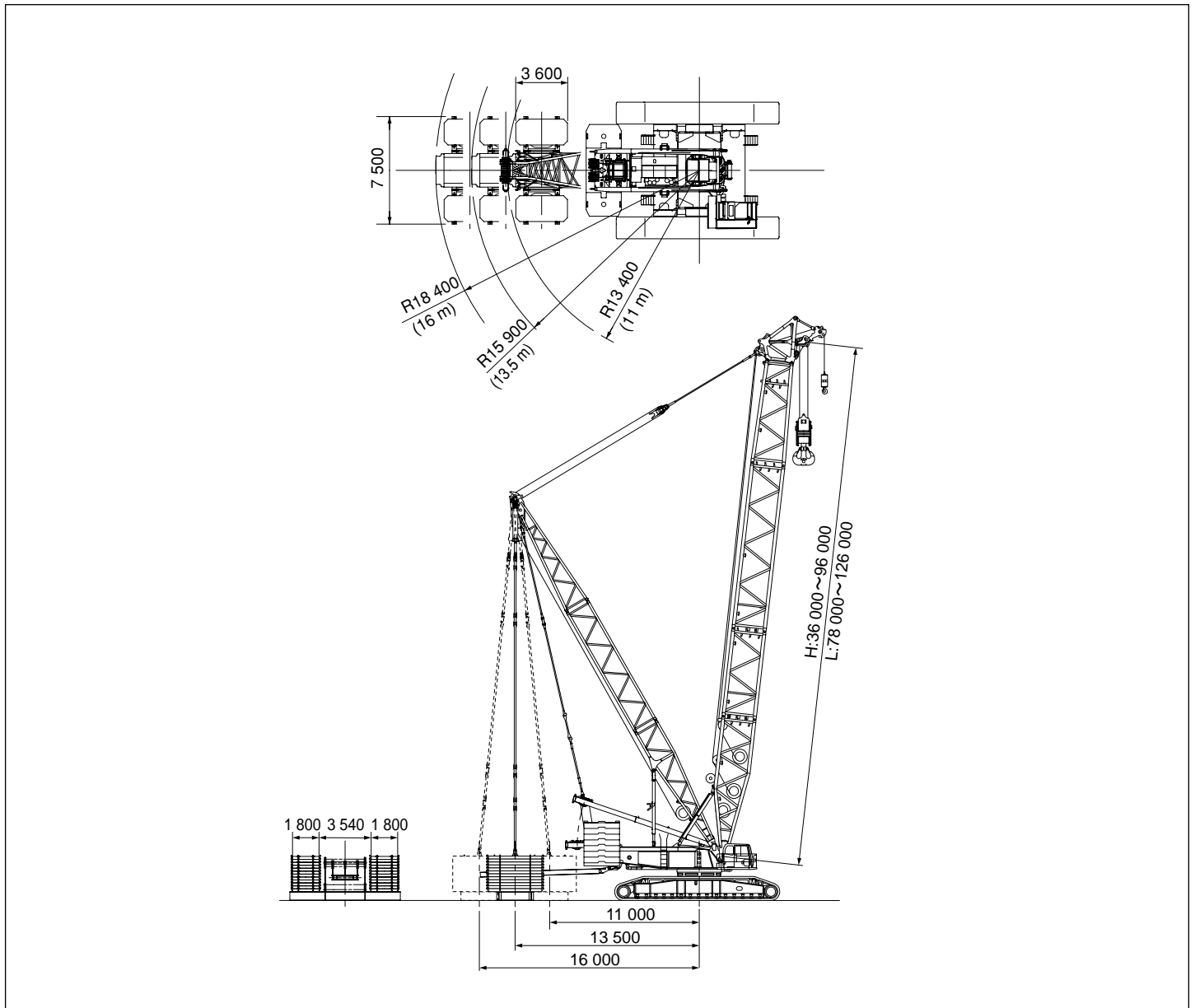
**Hook Blocks**

Hook blocks		Mass (kg)
550 t	280 t hook block plus a ten sheaves equalizer block	12 500
280 t	Ten sheaves	7 000
320 t	160 t hook block plus an eight sheaves equalizer block	7 800
160 t	Five sheaves	4 000
65 t	Two sheaves	* 3 000 / 2 000
15 t	Ball hook	950

\* : With auxiliary weights / Without auxiliary weights

## Dimensions & Main Specifications : Liftcrane

### ■ Dimensions : Liftcrane



### ■ Main Specification. : Liftcrane

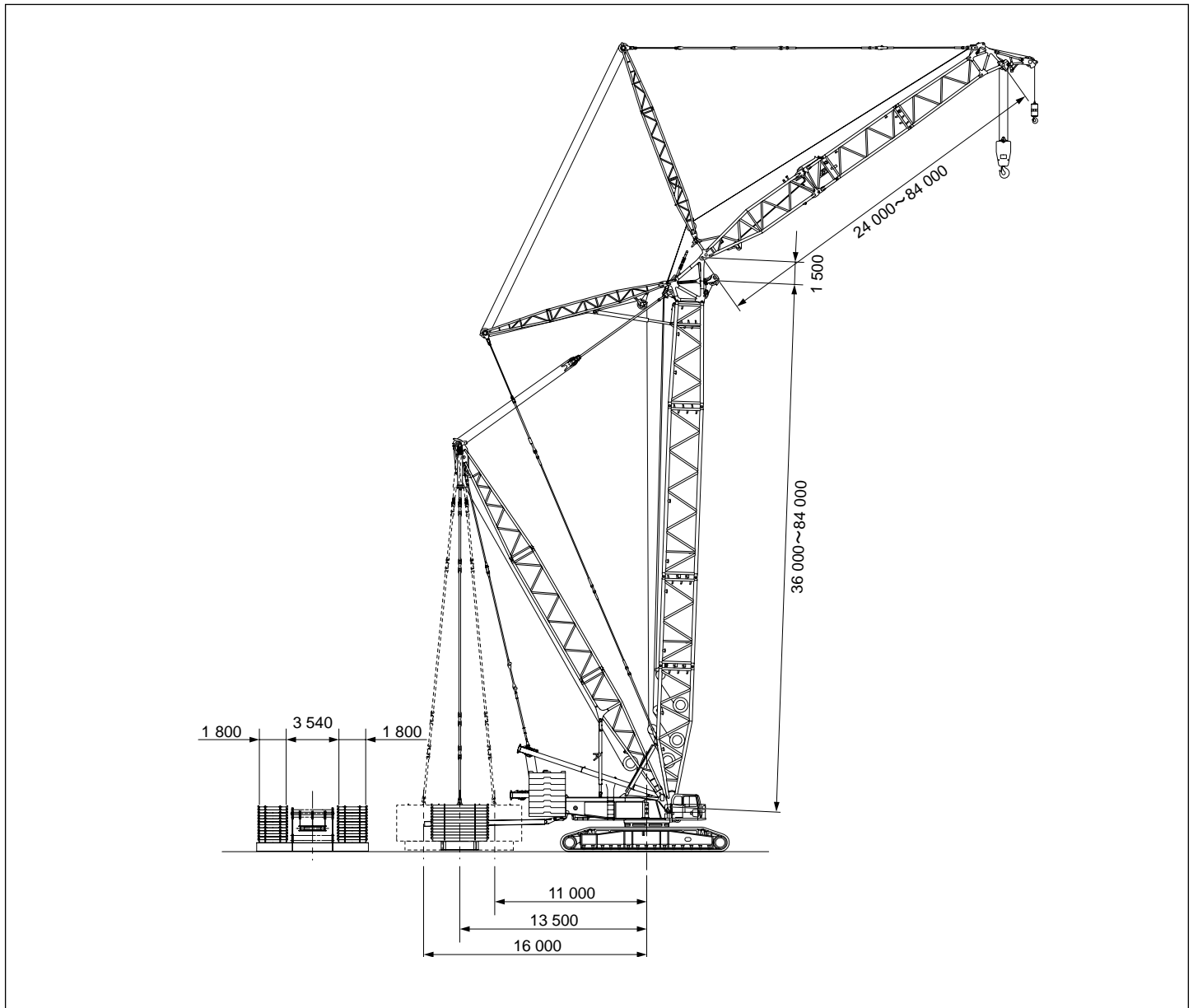
Front-end Attachment	Description	Specification			
		Heavy Duty Boom	Long Range Boom		
Liftcrane	Max. Lifting Capacity	t X m	550 X 8.0	231 X 24.0	
	Basic Boom Length	m	36	78	
	Max. Boom Length	m	96	126	
	Line Speed	Load Hoist Drum : W1, W2	m/min	110	
		Boom Hoist Drum : W5	m/min	40	
	Slewing Speed	min <sup>-1</sup> (rpm)	1.0 (1.0)		
	Travel Speed	km/hr	1.5 / 1.3 / 0.6		
	Ground Pressure*	kPa(kgf/cm <sup>2</sup> )	147 (1.50)	150 (1.53)	
	Working Mass*	t	463	473	

\* Including basic boom, hook block(H : 550 t hook block, L : 320 t hook block), counterweight(160 t), pallet (w/o External counterweight) and optional 1524mm wide shoes.



## Dimensions & Main Specifications : Luffing Tower

### ■ Dimensions : Luffing Tower



### ■ Main Specification. : Luffing Tower

Front-end Attachment	Description		Spec.	
Luffing Tower	Max. Lifting Capacity	t X m	250 X 18.0	
	Basic Tower Length	m	36	
	Max. Tower Length	m	84	
	Basic Luffing Jib Length	m	24	
	Max. Luffing Jib Length	m	84	
	Max. Tower + Luffing Jib Length	m	84+84	
	Line Speed	Load Hoist Drums : W1,W2	m / min	110
		Tower Hoist Drum : W5	m / min	40
		Luffing Jib Hoist Drum : W4	m / min	49
	Slewing Speed	min <sup>-1</sup> (rpm)	1.0 (1.0)	
	Travel Speed	km / hr	1.5 / 1.3 / 0.6	
	Ground Pressure*	kPa(kgf / cm <sup>2</sup> )	162 (1.65)	
	Working Mass*	t	511	

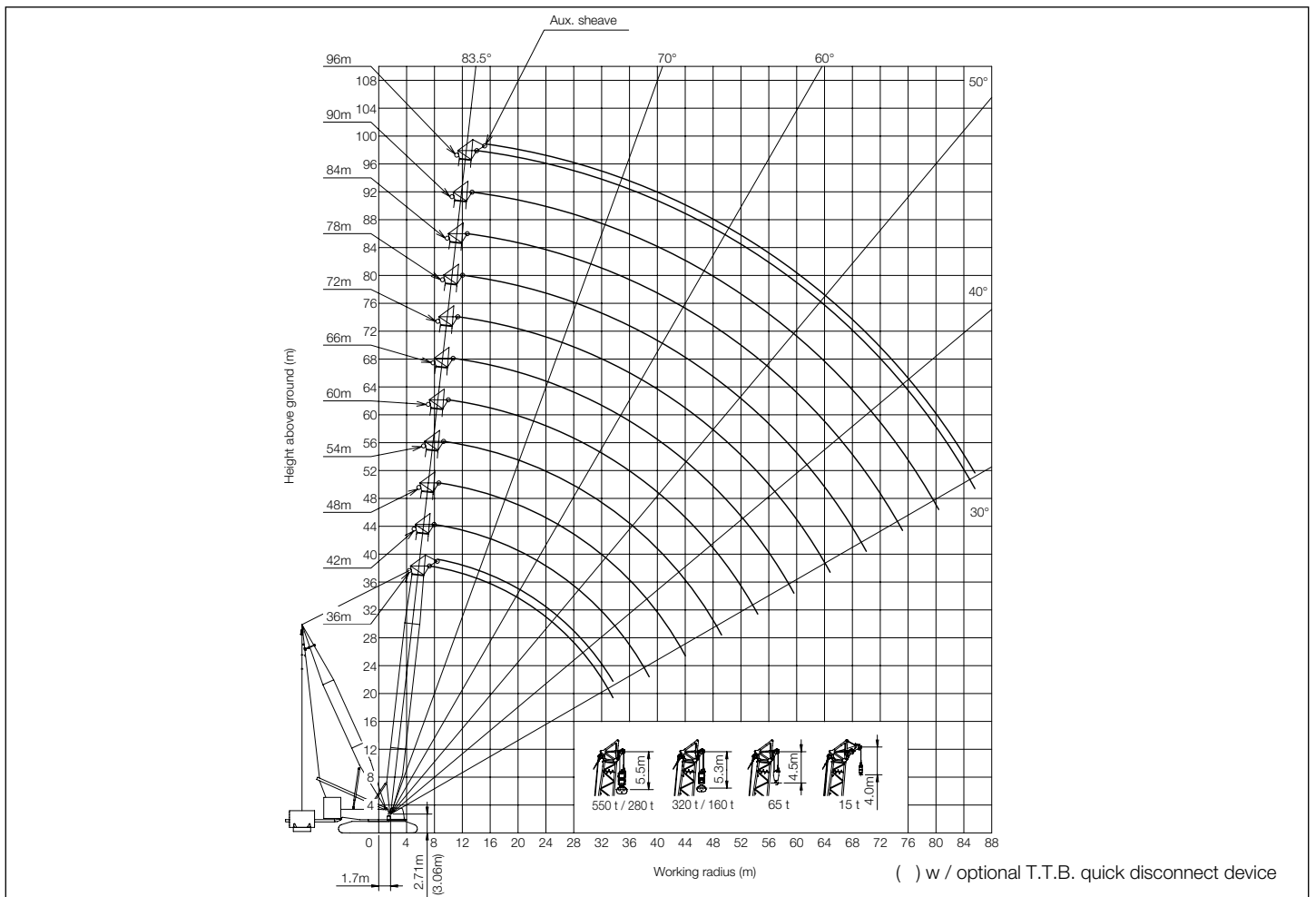
\* : Including 84 m Tower + 84 m Luffing Jib, 65 t hook block, counterweight(160 t), pallet (w/o External counterweights) and optional 1 524 mm wide shoes.



## Boom Combinations

Boom Combinations	
36 m	HB9.5   H6A   H12A   HR7   HT1.5
42 m	HB9.5   H12A   H12B   HR7   HT1.5
48 m	HB9.5   H6A   H12A   H12B   HR7   HT1.5
54 m	HB9.5   H12A   H12B   H12C   HR7   HT1.5
60 m	HB9.5   H6A   H12A   H12B   H12C   HR7   HT1.5
66 m	HB9.5   H12A   H12B   H12C   HL12B   HR7   HT1.5
72 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HR7   HT1.5
78 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   HT1.5
84 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HL12B   HR7   HT1.5
90 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HL12B   HR7   HT1.5
96 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HL12B   HL12B   HR7   HT1.5

## Working Range Diagram







## SL-T H Boom Lifting Capacities

160 t
 62 t
 15 t - 260 t / 11-16 m

(ton)

(m) (m)	36 ※	42	48	54	60	66	72	78	84	90	96
7.3	*550.0										
8	*550.0	*458.0	*412.0 / 8.7								
9	*528.0	*458.0	*412.0	*364.0 / 9.4							
10	*509.0	*458.0	*412.0	*364.0	*339.0	*313.0 / 10.7	*274.0 / 11.4				
12	478.0	452.0	*412.0	*364.0	*339.0	*313.0	*274.0	*223.5 / 12.1	*188.0 / 12.7	*155.5 / 13.4	
14	429.0	431.5	412.0	364.0	*339.0	*313.0	*274.0	*223.5	*188.0	*155.5	*130.5 / 14.1
16	374.5	379.5	377.5	364.0	339.0	313.0	*274.0	*223.5	*188.0	*155.5	*130.0
18	332.0	336.5	334.5	334.0	333.0	313.0	274.0	*223.5	*188.0	*155.5	*130.0
20	298.0	301.5	300.0	299.0	298.0	299.0	274.0	*223.5	*188.0	*155.5	*130.0
22	268.0	273.0	271.0	270.5	269.5	270.5	270.0	223.5	*188.0	*155.5	*130.0
24	243.5	247.5	246.0	245.0	244.0	245.0	244.5	223.5	188.0	*155.5	*130.0
26	223.0	226.5	224.5	224.0	223.0	224.0	223.0	223.0	188.0	*155.5	*130.0
28	203.2	208.5	206.5	206.0	204.5	205.5	205.0	204.5	188.0	154.5	*130.0
30	184.3	193.0	191.0	190.0	189.0	190.0	189.5	189.0	188.0	151.0	*129.0
32	167.4	179.5	177.5	176.5	175.5	176.0	175.5	175.0	174.5	147.0	126.0
34	154.9 / 33.6	165.2	165.7	164.8	163.7	164.4	163.7	163.3	162.4	143.4	122.5
36		151.7	155.2	154.3	153.1	153.7	153.0	152.6	151.7	139.3	118.9
38		139.4	145.8	144.9	143.6	144.2	143.5	143.1	142.1	135.1	115.3
40		134.6 / 38.8	137.5	136.5	135.2	135.7	134.9	134.5	133.5	131.0	111.8
42			127.4	128.9	127.5	128.0	127.2	126.8	125.8	125.5	108.2
44			117.9	122.1	120.6	121.0	120.2	119.7	118.7	118.4	104.5
46				116.9	114.4	114.6	113.8	113.3	112.3	112.0	101.1
48				109.0	108.7	108.9	108.0	107.5	106.5	106.1	98.3
50				104.4 / 49.2	103.5	103.6	102.6	102.1	101.1	100.7	94.9
52					98.7	98.7	97.7	97.2	96.1	95.8	91.7
54					93.7	94.2	93.2	92.6	91.6	91.2	88.5
56					92.5 / 54.4	90.1	89.0	88.4	87.3	86.9	85.4
58						86.3	84.9	84.5	83.4	83.0	82.1
60						83.0 / 59.6	81.0	80.8	79.6	79.1	78.1
64							74.0	73.7	72.4	71.9	70.9
68							72.7 / 64.8	67.5	66.1	65.6	64.5
72								64.8 / 69.9	60.6	60.1	58.9
76									56.8 / 75.1	55.1	53.9
80										50.7	49.5
84										50.4 / 80.3	45.5
85.5											44.1

※ The mass of the counterweight is 140 t when the boom length is 36 m.



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations. ; each rated load capacity is based on machine's structural strength limitations.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 2.0 ton mass of the auxiliary sheave and the mass of the "main hook" attached to the "boom" are deducted from the maximum rated load of the "Heavy Duty Boom Capacities." However, the maximum rated load of the auxiliary sheave is limited to 60 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "main hook" is the value remaining after the 2.0 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Heavy Duty Boom Capacities."
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)	Hook Weight (ton)	Maximum Rated Load ( ton )																				
		20 X 2Falls	19 X 2Falls	18 X 2Falls	17 X 2Falls	16 X 2Falls	15 X 2Falls	14 X 2Falls	13 X 2Falls	12 X 2Falls	11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls					
550	Double-Reeling	12.5	550	502	480	458	435	412	388	364	339	314	288	262	235	208	180	-	-	-	-	-
320	Double-Reeling	7.9	-	-	-	-	-	-	-	-	320	314	288	262	235	208	180	151	-	-	-	-
			20 Falls	19 Falls	18 Falls	17 Falls	16 Falls	15 Falls	14 Falls	13 Falls	12 Falls	11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	262	251	240	229	217	206	194	182	170	157	144	131	118	104	-	-	-	-	-	-
160	Single-Reeling	3.9	-	-	-	-	-	-	-	-	-	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	*3.0 / 2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* :With auxiliary weights / Without auxiliary weights

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton)/Boom Length (m)		36	42	48	54	60	66	72	78	84	90	96	
550	Double-Reeling	Max.	20 x 2	17 x 2	15 x 2	13 x 2	12 x 2	11 x 2	10 x 2	8 x 2	7 x 2	6 x 2	-
		Min.	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2
320	Double-Reeling	Max.	12 x 2	12 x 2	12 x 2	12 x 2	12 x 2	11 x 2	10 x 2	8 x 2	7 x 2	6 x 2	5 x 2
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2
280	Single-Reeling	Max.	20	17	15	13	12	11	10	8	8	7	7
		Min.	7	7	7	7	7	7	7	7	7	7	7
160	Single-Reeling	Max.	11	11	11	11	11	11	10	8	8	7	7
		Min.	5	5	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-	



## Notes

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed. Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls	12 Falls	13 Falls	14 Falls	15 Falls	16 Falls	17 Falls	18 Falls	19 Falls	20 Falls
36 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
42 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	7.0	7.0	-	-	-
48 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	7.0	7.0	-	-	-	-	-
54 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	7.0	7.0	-	-	-	-	-	-	-
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1	7.0	-	-	-	-	-	-	-	-
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	4.5	-	-	-	-	-	-	-	-	-
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	4.4	-	-	-	-	-	-	-	-	-	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-	-	-	-	-	-	-	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-

11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.

Boom Length (m)	36	42	48	54	60	66	72	78	84	90	96
Equivalent Mass (ton)	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.5

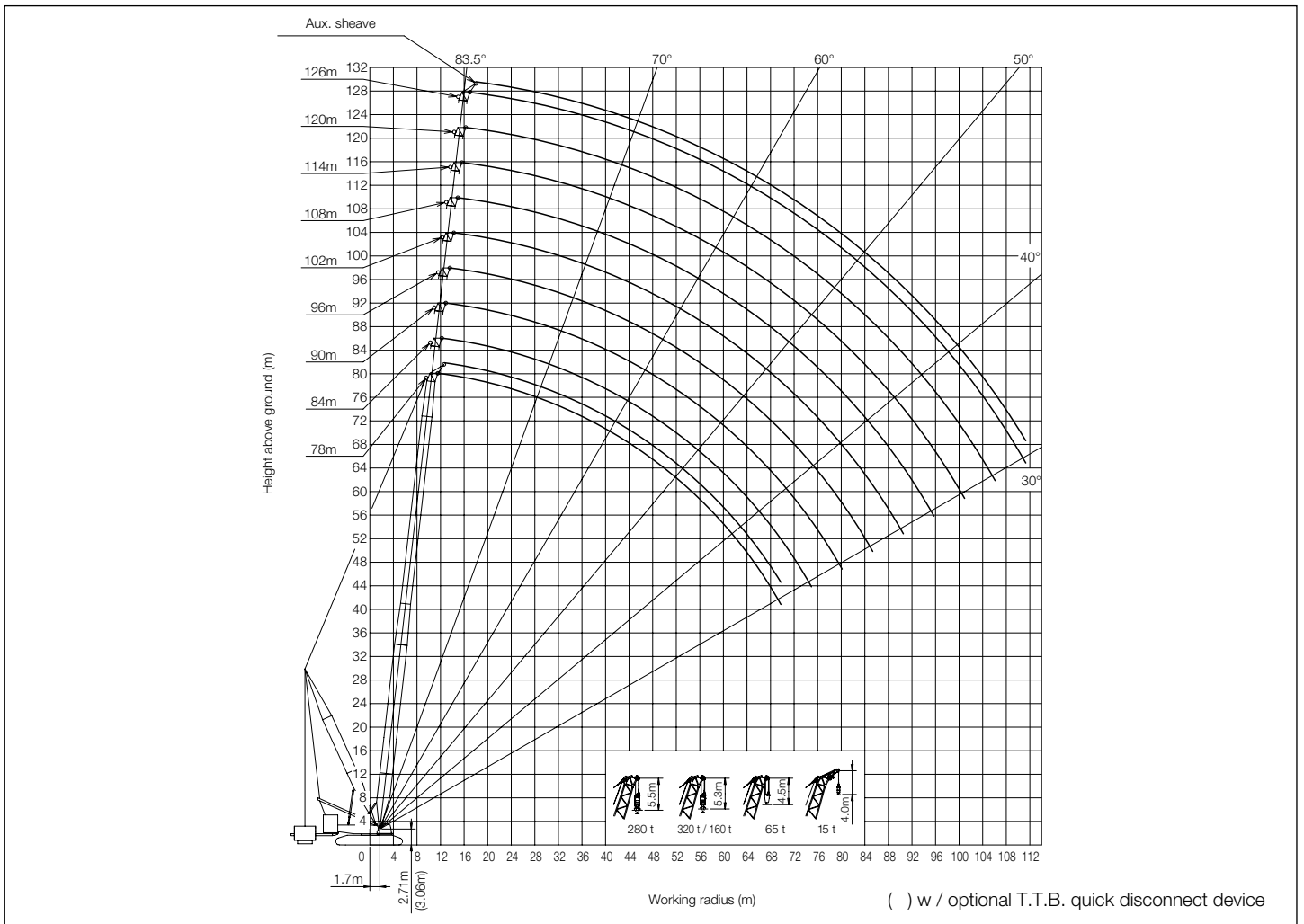
12. Travel and slew with pallet grounded is not to be able to done. The pallet remains on the ground even if rated load capacity is hoisted under the value with \* mark.



## Boom Combinations

	Boom Combinations
78 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HR7   LT7.5
84 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   LT7.5
90 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L6A   LT7.5
96 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L12A   LT7.5
102 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L6A   L12A   LT7.5
108 m	HB9.5   H12A   H12B   H12C   HL12B   HL12B   HR7   L12A   L12B   LT7.5
114 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HL12B   HR7   L12A   L12A   LT7.5
120 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HL12B   HR7   L6A   L12A   L12A   LT7.5
126 m	HB9.5   H6A   H12A   H12B   H12C   HL12B   HL12B   HR7   L12A   L12A   L12A   LT7.5



## Working Range Diagram



 SL-T L Boom Lifting Capacities

 160 t  62 t  15 t - 260 t / 11-16 m

(ton)

 (m)	78	84	90	96	102	108	114	120	126
 (m)									
11.6	*231.0								
12	*231.0	*187.0 / 12.3	*156.0 / 12.9	*140.0 / 13.6					
14	*231.0	*187.0	*156.0	*140.0	*118.0 / 14.3	*99.0 / 15.0	*90.0 / 15.6		
16	*231.0	*187.0	*156.0	*140.0	*118.0	*98.5	*90.0	*75.0 / 16.3	*65.0 / 17.0
18	*231.0	*187.0	*156.0	*140.0	*118.0	*97.5	*90.0	*75.0	*65.0
20	*231.0	*187.0	*156.0	*138.5	*116.0	*96.5	*89.0	*74.5	*65.0
22	231.0	*187.0	*156.0	*137.0	*115.0	*95.0	*87.0	*73.5	*64.0
24	231.0	*187.0	*156.0	*135.5	*112.5	*93.5	*85.0	*72.5	*63.0
26	211.5	183.0	*154.0	*134.0	*110.0	*92.0	*83.0	*71.5	*62.0
28	196.5	178.0	*151.0	*132.0	*107.5	*90.0	*81.0	*70.5	*61.0
30	183.5	172.5	147.5	*130.0	*105.0	*88.0	*79.0	*69.5	*60.0
32	172.0	165.0	144.0	*128.0	*102.5	*86.5	*77.5	*68.5	*59.0
34	162.2	157.5	140.1	125.0	*100.0	*85.0	*76.0	*67.8	*58.2
36	153.5	150.0	135.1	122.0	*97.0	*83.5	*74.5	*66.8	*57.3
38	144.7	142.0	130.4	119.0	*94.8	*82.0	*72.5	*65.4	*56.2
40	138.5	135.0	125.5	115.0	*92.5	*80.5	*70.3	*64.4	*55.3
42	130.5	128.0	120.9	111.5	*90.4	*78.5	*68.6	*63.2	*54.5
44	123.5	121.5	117.0	108.0	88.2	*77.0	*67.0	*61.7	*53.5
46	117.5	116.0	112.9	104.5	86.4	*75.5	*65.6	*60.2	*52.8
48	111.5	110.0	108.4	101.5	84.6	*74.0	*64.1	*58.9	*52.0
50	106.0	105.0	104.5	97.5	83.2	72.5	*62.6	*57.5	*51.0
52	101.0	100.0	99.0	94.0	81.4	71.0	*61.2	*56.2	*50.3
54	96.5	95.0	94.8	90.5	79.6	69.5	*59.8	*55.0	*49.4
56	91.0	90.5	90.6	87.5	77.7	68.0	*58.4	*53.9	*48.4
58	86.4	86.5	86.0	84.2	75.7	66.5	*57.1	*53.1	*47.5
60	82.4	82.5	82.0	81.2	74.7	65.0	55.8	*52.0	*46.5
64	74.7	75.0	74.9	74.3	69.1	62.0	53.2	49.9	*44.7
68	67.4	68.2	68.5	67.8	63.9	59.0	50.6	48.0	*43.0
72	63.9 / 69.7	61.8	62.8	62.3	58.7	56.0	48.2	46.1	41.3
76		57.8 / 74.9	57.2	57.4	54.7	53.0	45.8	44.4	39.6
80			51.5	53.2	51.4	50.0	43.7	42.6	37.9
84			51.4 / 80.1	49.5	48.1	47.0	41.7	41.0	36.1
88				48.3 / 85.3	44.5	44.0	39.9	39.2	34.4
92					42.3 / 90.5	41.0	38.2	37.6	32.7
96						38.0 / 95.7	36.6	35.8	30.9
100							35.0	34.0	29.3
104							34.2 / 100.9	32.0	27.6
108								31.0 / 106.1	26.0
111.3									24.7



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations. ; each rated load capacity is based on machine's structural strength limitations.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the "main hook" attached to the "boom" are deducted from the maximum rated load of the "Long Range Boom Capacities." However, the maximum rated load of the auxiliary sheave is limited to 30 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the main hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "main hook" is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Long Range Boom Capacities."
6. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load.
7. The boom tilt angle range is according to the working range diagram.
8. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m. )

Hook Capacity (ton)		Hook Weight (ton)	Maximum Rated Load ( ton )										
			11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls				
320	Double-Reeling	7.9	-	-	250	235	195	180	151	-	-	-	-
			11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	157	144	131	118	104	-	-	-	-	-	-
160	Single-Reeling	3.9	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	*3.0 / 2.0	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-

\* : With auxiliary weights / Without auxiliary weights

9. The chart below shows the operable windings based on the length of each boom.

Hook Capacity (ton)/Boom Length (m)		78	84	90	96	102	108	114	120	126	
320	Double-Reeling	Max.	8 x 2	7 x 2	6 x 2	5 x 2	5 x 2	5 x 2	5 x 2	-	-
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	-	-
280	Single-Reeling	Max.	8	8	7	7	6	6	5	5	5
		Min.	6	6	6	6	6	6	5	5	5
160	Single-Reeling	Max.	8	8	7	7	6	6	5	5	5
		Min.	5	5	5	5	5	5	5	5	5
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	5
		Min.	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	



## Notes

10. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed.

Please select a hook that can be lowered based on the boom length and number of windings.

Boom Length / Number of reeled lines	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-
102 m	-	2.0	2.0	2.3	3.0	3.9	-	-
108 m	-	2.0	2.0	2.5	3.1	3.9	-	-
114 m		2.0	2.0	2.6	3.3	-	-	-
120 m		2.0	2.0	2.8	3.5	-	-	-
126 m		2.0	2.1	2.9	3.7	-	-	-


11. The rated total load when the operation being performed with the rear post support pendant attached is the value remaining when the value in chart below is deducted from the rated total load chart.


Boom Length (m)	78	84	90	96	102	108	114	120	126
Equivalent Mass (ton)	2.2	2.4	2.2	2.1	2.0	1.9	2.1	2.0	1.9

12. Travel and slew with pallet grounded is not to be able to done. The pallet remains on the ground even if the rated load capacity is hoisted under the value with \* mark.





## Boom Combinations

		Tower Combinations
36 m		
42 m		
48 m		
54 m		
60 m		
66 m		
72 m		
78 m		
84 m		

		Jib Combinations
24 m		
30 m		
36 m		
42 m		
48 m		
54 m		
60 m		
66 m		
72 m		
78 m		
84 m		



## Boom Combinations

 	24 m	30 m	36 m	42 m	48 m	54 m	60 m	66 m	72 m	78 m	84 m
36 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
42 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
48 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
54 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
60 m	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
66 m	×	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
72 m	×	×	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
78 m	×	×	×	⊙	⊙	⊙	⊙	⊙	⊙	○	●
84 m	×	×	×	×	⊙	⊙	⊙	○	●	●	△

\*The above-mentioned signs are as follows.

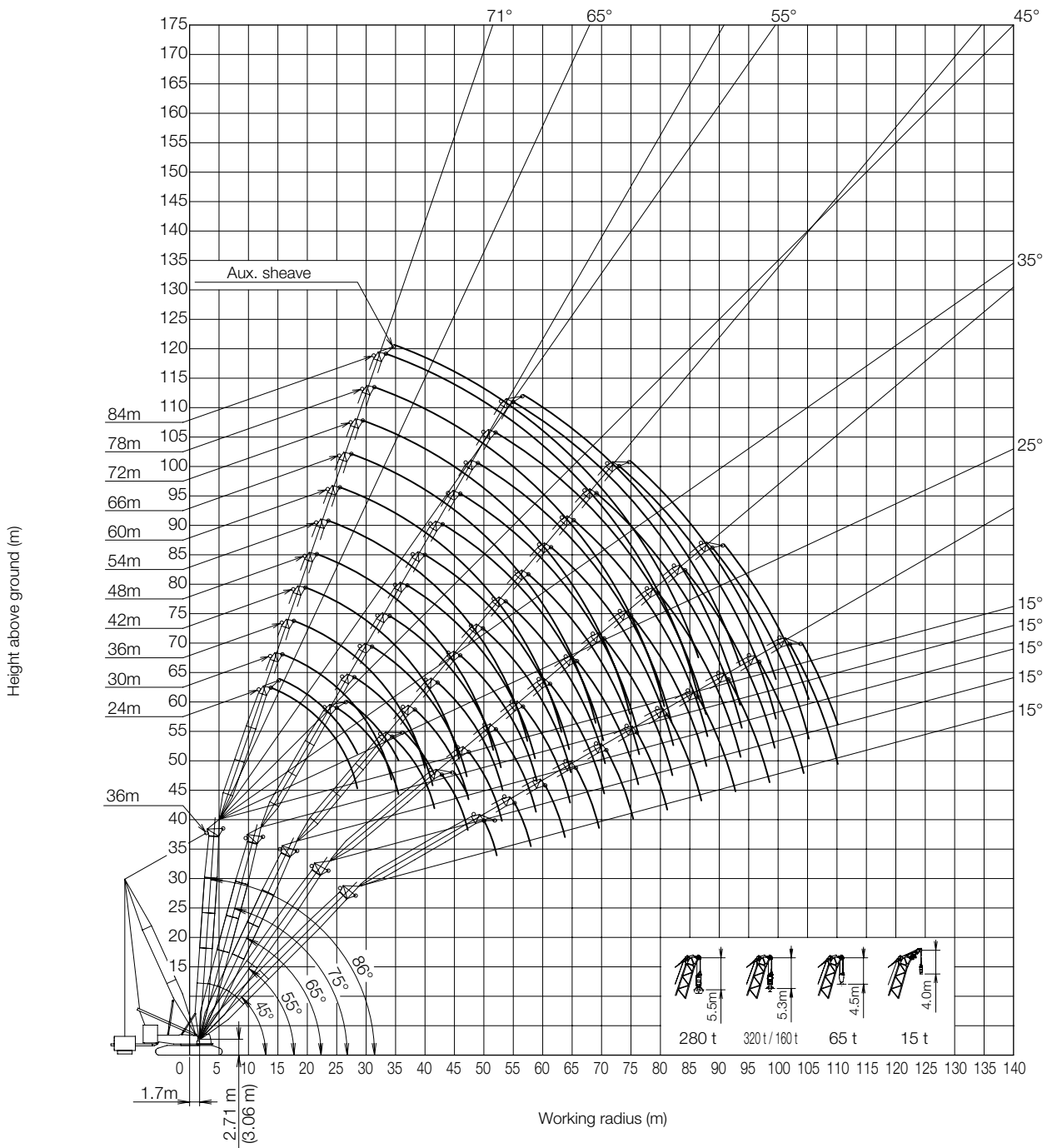
⊙ : Possible at 86° - 45° ○ : Possible at 86° - 55° ● : Possible at 86° - 65° △ : Possible at 86° - 75° × : No setting



## Working Range Diagram




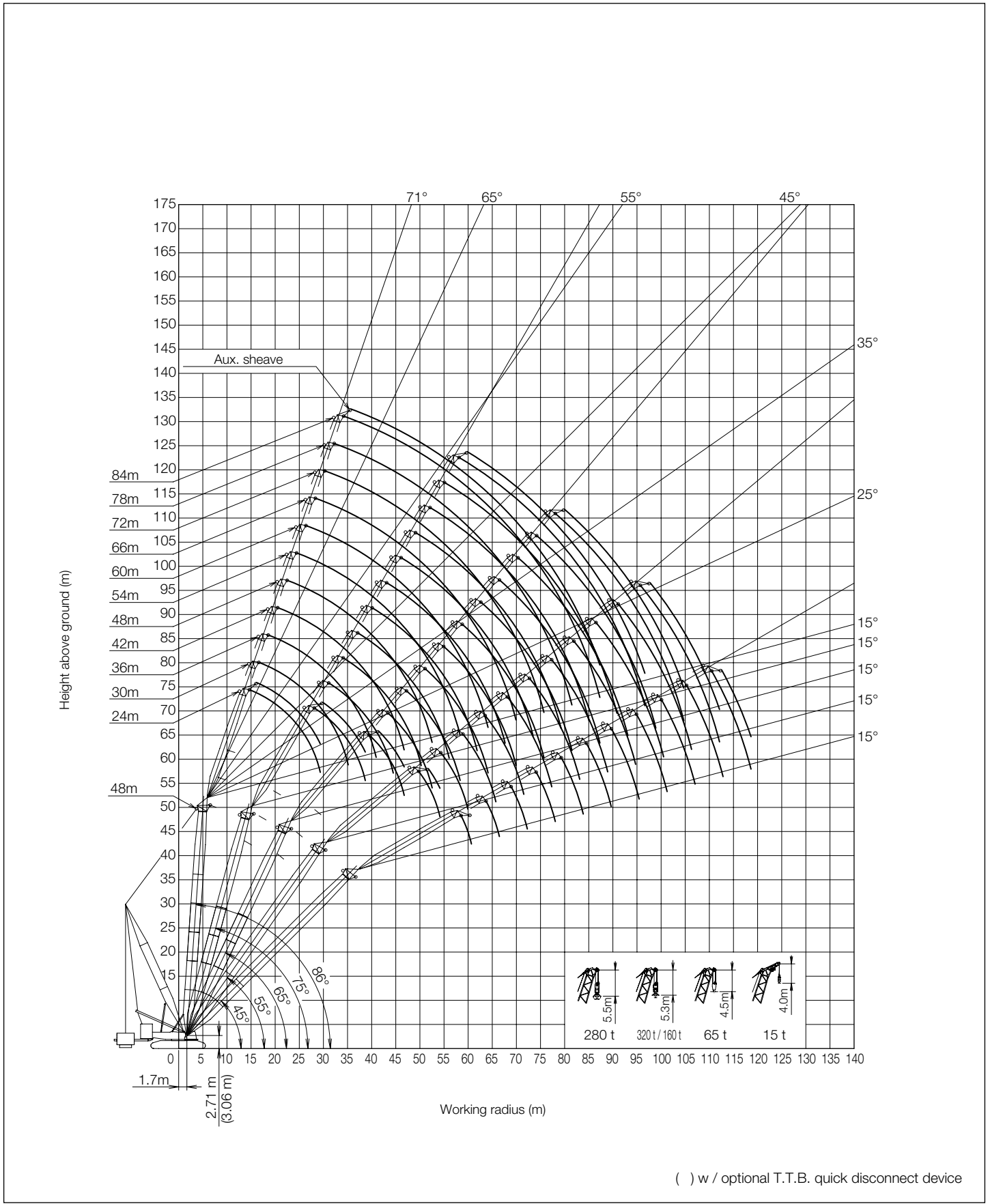
Tower length 36 m



( ) w / optional T.T.B. quick disconnect device

# Working Range Diagram

 Tower length 48 m



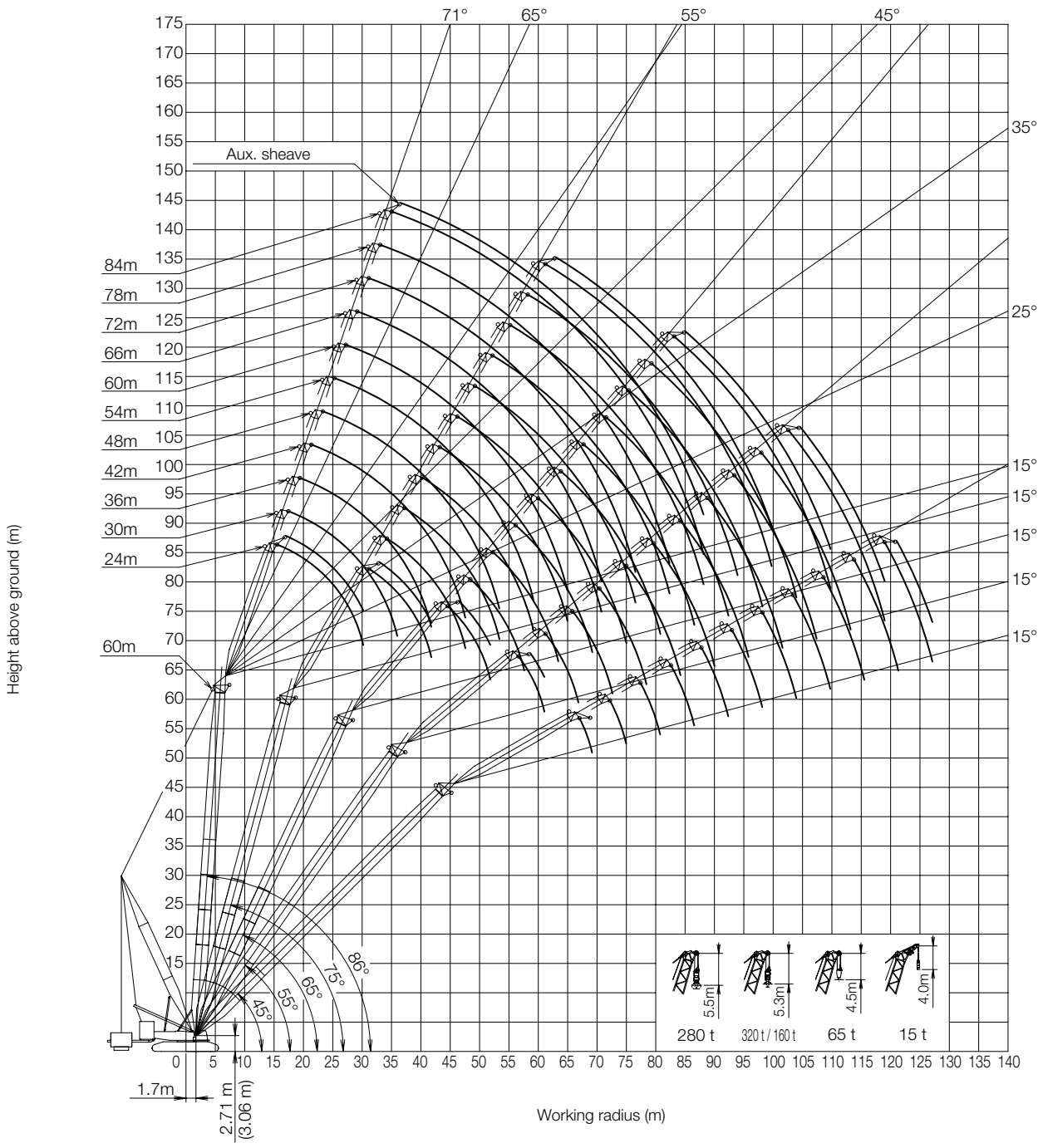
( ) w / optional T.T.B. quick disconnect device



## Working Range Diagram




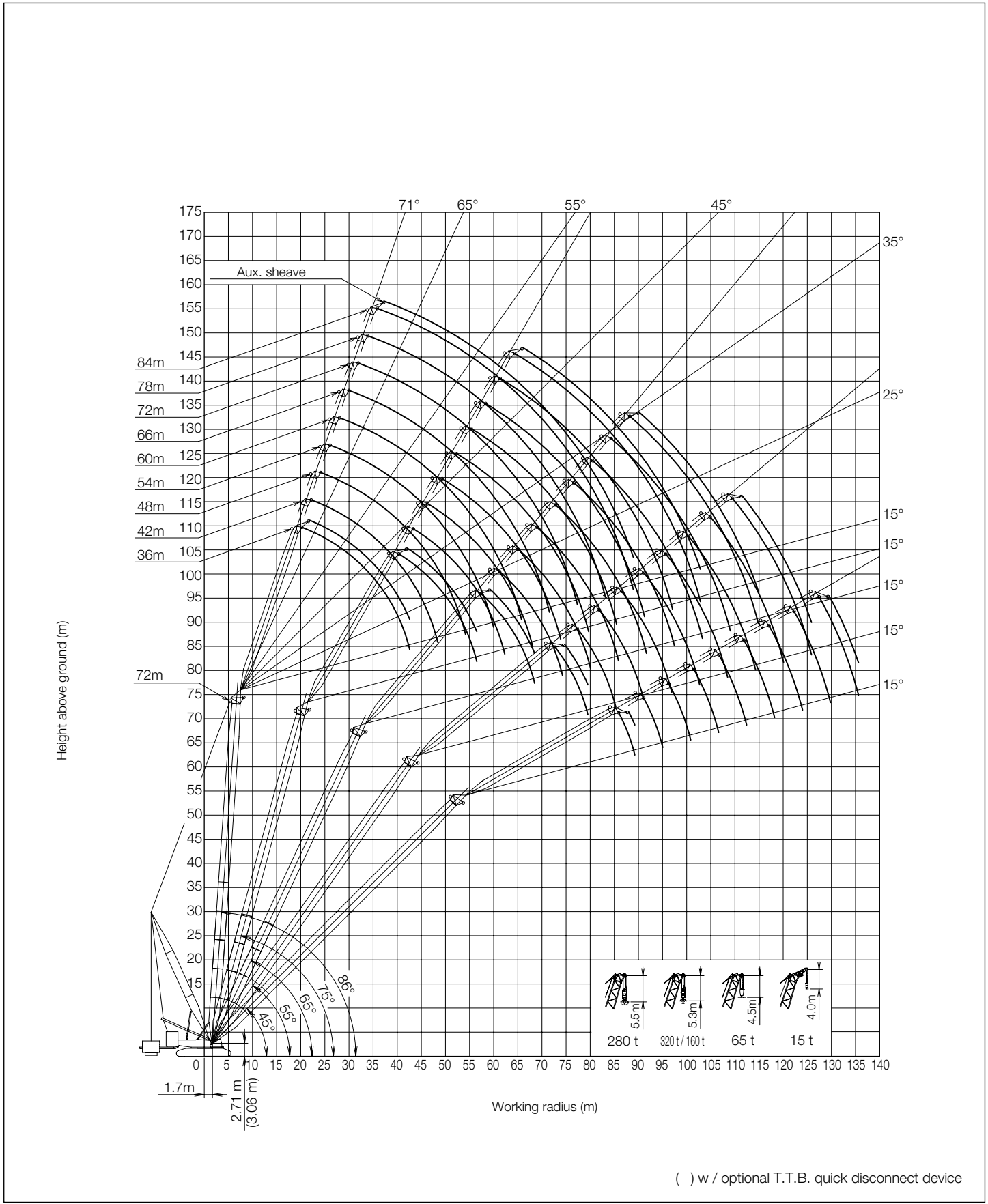
Tower length 60 m



( ) w / optional T.T.B. quick disconnect device

# Working Range Diagram

 Tower length 72 m

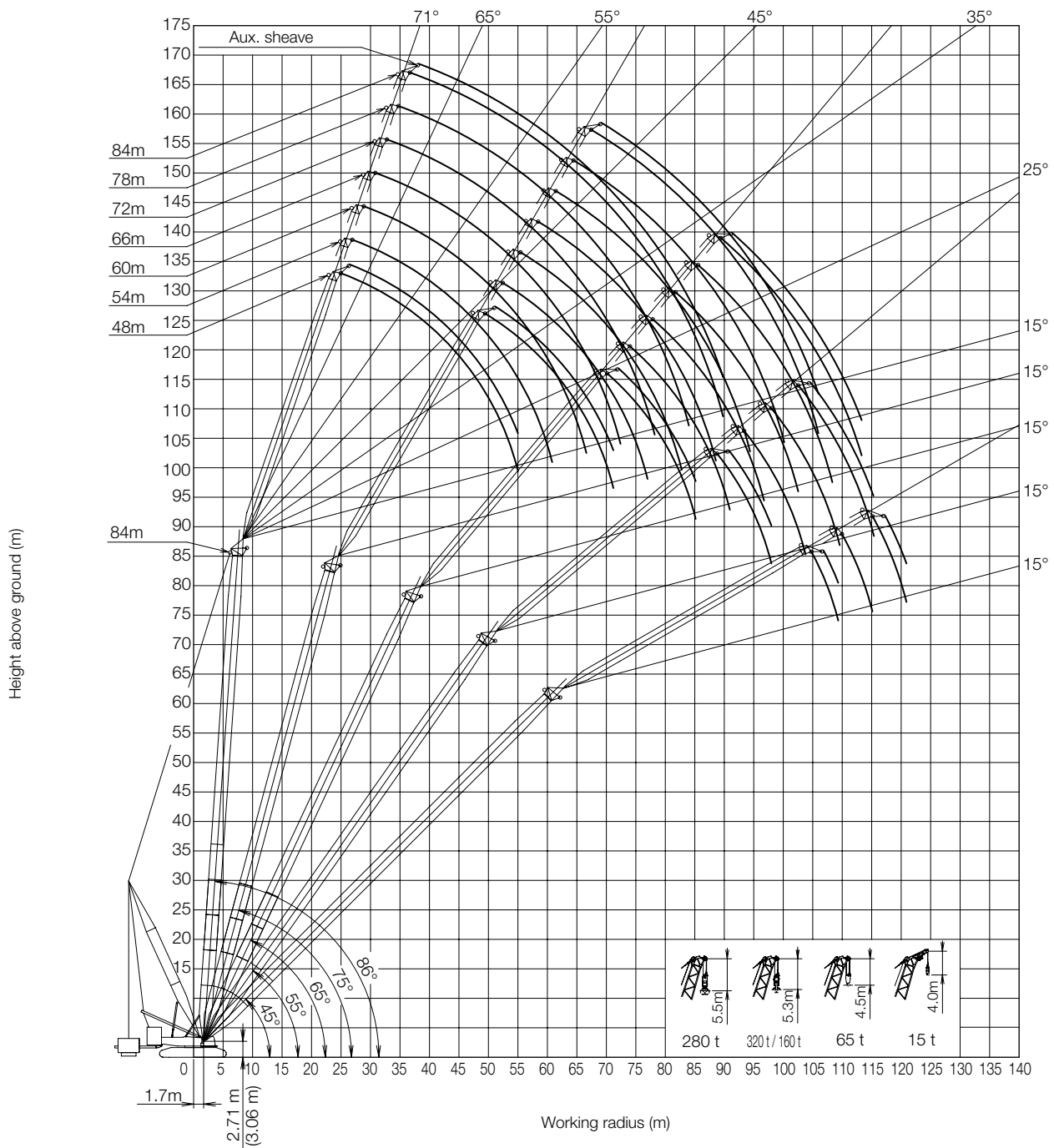





## Working Range Diagram







Tower length 84 m




( ) w / optional T.T.B. quick disconnect device


 SL-T Luffing Jib Capacities

 36 m  160 t  62 t  15 t - 260 t / 11-16 m w / o Heavy head sheave block

(ton)

 (m)	24					36					48				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
13.9	*250.0														
14	*250.0														
16	*250.0														
18	*250.0					*210.0 / 17.8									
20	*230.8					*209.4									
22	*198.3					*204.0					*145.8 / 21.7				
24	*198.3					*194.4					*145.4				
24	*162.5	237.6 / 25.0				*181.5					*142.3				
26	*130.2	227.3				*168.3					*137.4				
28	*99.7	209.1				*149.6					*131.8				
30	*91.0 / 28.5	193.5				*133.2	183.8 / 31.0				*125.9				
34		135.8	159.1 / 34.5			*106.1	165.5				*113.5	134.2 / 37.0			
38		*109.0 / 35.5	142.7			*82.7	134.1				*98.8	130.2			
42			120.5 / 41.6	120.7 / 42.9		*68.9 / 40.0	108.2	123.9 / 42.2			*82.8	115.8			
46				111.5			*85.1	112.2			*69.1	100.4	100.6 / 49.9		
50				108.3 / 47.2	97.9 / 50.1		*77.9 / 47.1	102.0	93.8 / 52.1		*56.0	85.1	100.3		
54					93.7 / 52.1			80.6 / 53.2	90.0		*50.2 / 51.6	*71.7	91.7		
58									83.0			*58.6	83.0		
60									81.7 / 58.8	76.0 / 60.5		*56.0 / 58.7	76.6	75.8 / 61.3	
64										71.7 / 63.7			61.7	72.0	
68													58.0 / 64.8	66.9	60.9 / 70.9
72														61.3 / 70.4	59.8
76															56.7 / 75.3

(ton)

 (m)	60					72					84				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
24	*102.6 / 25.6														
26	*102.3														
28	*99.6					*74.2 / 29.5									
30	*96.6					*73.5					*49.7 / 33.4				
34	*91.4					*68.6					*49.5				
38	*87.1					*65.3					*47.5				
42	*83.8	*88.7 / 43.0				*61.7					*44.3				
46	*76.0	*85.6				*58.8	*61.0 / 49.0				*41.5				
50	*65.5	82.3				*56.3	*60.2				*39.2				
54	*56.4	78.3	76.9 / 57.6			*54.4	*57.2				*37.2	*40.1 / 55.0			
58	*48.0	68.1	76.6			*52.6	*54.6				*35.5	*38.4			
60	*43.9	63.6	75.4			*50.0	*53.5				*34.8	*37.3			
64	*36.8 / 63.2	*55.1	72.2			*43.7	*51.8	*50.6 / 65.3			*33.4	*35.5			
68		*46.9	63.3	61.7 / 70.5		*37.9	*49.7	49.4			*31.3	*33.9			
72		*41.8 / 70.3	55.2	60.1		*32.2	*44.2	47.9			*29.4	*32.6	*34.1 / 73.0		
76			45.8	56.2		*27.8 / 74.8	*39.4	46.8	44.4 / 79.7		*27.8	*31.0	*32.9		
80			44.6 / 76.4	52.7	49.1 / 81.3		*34.9	46.5	44.3		*26.4	*29.2	*31.7		
84					47.1		*31.9 / 81.9	40.7	43.6		*23.2	*27.6	*30.2		
88					45.2 / 86.9			33.7	43.4	38.8 / 91.7	*20.4 / 86.4	*26.3	*28.5	*26.9 / 88.9	
92									38.7	38.8		*23.9	*27.1	*26.3	
96									34.3 / 93.6	38.1		*23.0 / 93.5	*25.9	25.9	
100										36.8 / 98.5			*25.1 / 99.6	25.8	22.5 / 102.0
104														25.5	22.5
108														25.3 / 105.2	22.5
110.1															22.5



## SL-T Luffing Jib Capacities

48 m 160 t 62 t 15 t - 260 t / 11-16 m w / o Heavy head sheave block

(ton)





Luffing Tower (m)	24					36					48				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
14.7	*212.6														
16	*208.1														
18	*201.2					*156.8 / 18.6									
20	*194.2					*153.9									
22	*187.8					*149.8					*111.0 / 22.5				
24	*173.4					*145.5					*109.1				
26	*147.9					*141.3					*106.5				
28	*116.6	202.2 / 28.2				*137.2					*103.9				
30	*95.0 / 29.3	190.0				*133.4					*101.2				
34		165.0				*114.3	147.1 / 34.2				*96.0				
38		124.6	131.7 / 39.5			*90.3	139.2				*91.1	109.2 / 40.2			
42		113.0 / 38.6	122.8			*71.9 / 40.9	125.8				*86.4	107.0			
46			110.7	96.2 / 49.8			100.3	105.3 / 47.3			*73.3	101.9			
50			103.3 / 46.7	95.7			*79.6	98.7			*60.2	94.4			
54				87.6			*78.6 / 50.2	90.3			*51.3 / 52.5	79.2	86.0 / 55.0		
58				87.4 / 54.1	75.7 / 58.6			79.7	76.9 / 59.0			67.0	80.7		
60					73.6			77.4 / 58.3	75.4			*61.5	77.5		
64					72.8 / 60.6				69.8			*56.6 / 61.8	71.7		
68									67.2 / 65.7	60.2 / 69.0			59.2	62.2 / 68.2	
72										57.2			51.8 / 69.9	58.2	
76										57.0 / 72.2				54.4	48.1 / 79.4
80														52.5 / 77.3	47.6
84															45.0 / 83.8

(ton)


Luffing Tower (m)	60					72					84				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
26	*82.6 / 26.4														
28	*81.4														
30	*79.9					*65.7 / 30.3									
34	*76.8					*63.3					*44.8 / 34.2				
38	*73.6					*59.2					*41.5				
42	*70.5					*55.7					*38.6				
46	*67.6	*80.9 / 46.2				*52.7					*36.0				
50	*64.8	77.1				*50.2	*54.3 / 52.2				*33.8				
54	*58.8	73.8				*48.3	*52.9				*31.9				
58	*50.3	71.4				*46.8	*50.2				*30.3	*33.9 / 58.2			
60	*46.2	67.7	66.1 / 62.7			*46.2	*49.1				*29.6	*32.9			
64	*37.6	59.1	65.5			*44.5	*47.0				*28.4	*31.0			
68	*37.3 / 64.1	*51.8	63.5			*40.1	*45.4	47.2 / 70.4			*27.5	*29.4			
72		*45.3	59.4			*34.4	*43.0	46.4			*26.8	*28.0			
76		*42.5 / 73.4	51.9	50.4 / 77.4		*28.6 / 75.7	*38.5	44.7			*26.4	*26.9	*28.2 / 78.1		
80			42.4	48.3			*34.6	43.4			*24.9	*26.0	*27.6		
84			39.0 / 81.5	45.3			*31.0	41.8	41.3 / 86.6		*23.5	*25.4	*26.4		
88				39.9	38.4 / 89.7		*30.0 / 85.0	35.7	40.9		*21.1 / 87.2	*25.1	*25.4		
92				37.0 / 88.9	37.1			30.1	39.2			*25.0	*24.6	24.4 / 95.7	
96					35.4 / 95.4			28.6 / 93.1	36.9			*22.7	*24.2	24.3	
100									30.0	31.8 / 100.1		*22.4 / 96.6	24.2	23.1	
104									29.0 / 100.5	30.1			22.8	22.7	
108										28.8 / 107.0			22.3 / 104.6	22.6	19.7 / 110.5
112														22.6	19.6
116														22.6 / 112.1	19.6
118.6															19.6




 SL-T Luffing Jib Capacities

 60 m  160 t  62 t  15 t - 260 t / 11-16 m w / o Heavy head sheave block

(ton)

 (m)	24					36					48				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
15.5	*153.7														
16	*152.6														
18	*148.1														
20	*143.2														
22	*138.7														
24	*134.7														
26	*122.0														
28	*110.7														
30	*100.2	144.9 / 31.3													
34	*98.3 / 30.1	138.8													
38		*108.4													
42		*80.9 / 41.7	110.0 / 44.6												
46			106.1												
50			93.7												
54			75.6 / 51.8	77.4 / 56.7											
58				75.4											
60				72.4											
64				64.9 / 61.0	58.7 / 67.1										
68					57.7										
72					56.6 / 69.1										
76															
80															
84															
88															
92.3															

(ton)

 (m)	60					72					84				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
26	*66.6 / 27.3														
28	*66.1														
30	*64.7														
34	*61.9														
38	*59.1														
42	*56.4														
46	*53.8	*64.4 / 49.3													
50	*50.2	*64.0													
54	*46.0	*61.4													
58	*42.5	*58.5													
60	*40.9	*54.5													
64	*38.0	*47.5	59.4 / 67.8												
68	*37.4 / 64.9	*41.7	59.2												
72		*36.7	54.9												
76		*32.2	46.1												
80		*31.6 / 76.5	38.5												
84			*32.0	42.2 / 84.2											
88			*28.1 / 86.5	39.7											
92				37.1											
96				28.4 / 95.8	30.3 / 98.2										
100					29.5										
104					27.9 / 103.9										
108															
112															
116															
120															
124															
127.1															



## SL-T Luffing Jib Capacities

72 m 160 t 62 t 15 t - 260 t / 11-16 m w / o Heavy head sheave block





(ton)

(m)	36					48					60				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
20.3	*83.8														
22	*82.0														
24	*79.9														
26	*77.5														
28	*75.3														
30	*73.2														
34	*63.7														
38	*55.5	*79.6 / 40.4													
42	*48.9	*78.0													
46	*47.9 / 42.6	*73.1													
50		*59.8													
54		*49.0	72.4 / 57.4												
58		*43.0 / 56.4	71.9												
60			69.8												
64			54.8												
68			*41.3												
72			*39.9 / 68.4	51.2 / 72.7											
76				48.4											
80				37.3 / 79.5											
84					36.4 / 85.9										
88					35.2										
92					34.5 / 89.2										
96															
100															
104															
108															
112.4															


(ton)

(m)	72					84				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
32	*40.4									
34	*39.6									
38	*38.2									
42	*36.6									
46	*35.1									
50	*33.7									
54	*32.3									
58	*31.1	*37.7 / 58.4								
60	*30.5	*36.7								
64	*29.5	*34.5								
68	*27.7	*32.7								
72	*26.1	*31.1								
76	*24.7	*29.9								
80	*24.2 / 77.3	*27.6	32.6 / 80.5							
84		*25.0	31.3							
88		*22.7	29.0							
92		*20.9 / 91.2	25.6							
96			22.5							
100			*19.6	27.0 / 100.3						
104			*17.4 / 103.2	25.4						
108				23.9						
112				20.3						
116				18.1 / 114.2	16.7 / 117.1					
120					15.9					
124					14.9					
128										
132										
135.5										


## SL-T Luffing Jib Capacities

 84 m  160 t  62 t  15 t - 260 t / 11-16 m w / o Heavy head sheave block

(ton)

 (m)	48					60				
	86°	75°	65°	55°	45°	86°	75°	65°	55°	45°
25	*48.6									
26	*48.1									
28	*47.0					*37.2 / 28.9				
30	*46.0					*36.8				
34	*43.5					*35.3				
38	*41.3					*33.6				
42	*37.4					*32.0				
46	*33.7	*45.0 / 49.5				*30.5				
50	*30.6	*44.8				*28.8				
54	*28.0	*42.9				*26.6	*34.5 / 55.5			
58	*27.3 / 55.0	*38.0				*24.6	*33.7			
60		*35.5				*23.7	*33.0			
64		*30.9				*22.1	*30.4			
68		*26.8	37.8 / 70.2			*21.2 / 66.6	*27.2			
72		*23.9 / 71.1	35.9				*24.4			
76			*31.2				*21.8	30.8 / 77.9		
80			*26.4				*19.6	29.3		
84			*21.8				*18.1 / 82.7	26.3		
88			*20.5 / 85.1	31.7 / 88.8				*23.1		
92				28.4				*20.1		
96				23.1				*17.1	25.8/98.0	
100				20.3 / 97.9				*16.6 / 96.7	24.5	
104					20.3 / 104.8				21.4	
108					19.3				17.9	
112					18.9 / 109.3				16.4 / 109.5	15.1 / 115.2
116										14.9
120										13.9
120.9										13.7

(ton)

 (m)	72					84			
	86°	75°	65°	55°	45°	86°	75°	65°	55°
32	*30.3 / 32.8								
34	*30.0					*25.3 / 36.8			
38	*28.8					*25.0			
42	*27.6					*24.1			
46	*26.4					*23.2			
50	*25.2					*22.3			
54	*23.4					*21.4			
58	*21.8	*27.9 / 61.5				*20.4			
60	*21.1	*27.9 / 61.5				*19.8			
64	*19.8	*27.2				*18.6	*22.1 / 67.5		
68	*18.6	*25.9				*17.7	*21.9		
72	*17.5	*23.7				*16.9	*20.4		
76	*16.6	*21.7				*16.3	*19.0		
80	*16.1 / 78.2	*19.8				*15.6	*17.8		
84		*18.2	25.5 / 85.6			*14.9	*16.8		
88		*16.7	24.3			*14.3	*16.0		
92		*15.2	22.3			*14.0 / 89.8	*15.3	17.2 / 93.3	
96		*14.4 / 94.3	20.2				*14.9	16.4	
100			18.2				*14.0	15.5	
104			16.2	20.4 / 107.2			*13.0	14.7	
108			*14.2	20.1			*12.5 / 105.9	14.1	
112			*14.1 / 108.3	18.8				13.7	
116				16.9				13.5	15.1 / 116.4
120				14.5				12.4 / 119.9	14.2
124				13.8 / 121.1	10.4 / 125.6				13.2
128					9.9				12.2
132					9.1				11.3
134					9.0 / 132.4				11.1 / 132.7



## Notes

1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13 000 Standards in terms of machine stability and structural strength limitations.; each rated load capacity is based on machine's structural strength limitations.
3. 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.
4. The maximum rated load of the auxiliary sheave is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the "luffing jib hook" attached to the "luffing jib" are deducted from the maximum rated load of the "Luffing Jib Capacities." However, the maximum rated load of the auxiliary sheave is limited to 30 tons. The operating range of the auxiliary sheave is the range that has the maximum rated load of the luffing jib hook.
5. If the auxiliary sheave is attached, the maximum rated load of the "luffing jib hook" is the value remaining after the 1.3 ton mass of the auxiliary sheave and the mass of the auxiliary hook attached to the auxiliary sheave are deducted from the maximum rated load of the "Luffing Jib Capacities."
6. If the heavy head sheave block is attached, the maximum rated load of the "luffing jib hook" is the value remaining after the 3.0 ton mass of the heavy head sheave block and the mass of the "luffing boom hook" attached to the heavy head sheave block are deducted from the "Luffing jib Maximum Rated Load" value.
7. The "working radius" is the horizontal distance from the slewing center to the center of gravity of a lifted load
8. Luffing Boom and Luffing Jib tilt angle ranges are according to the working range diagram.
9. The chart below shows the number of reeled lines and the maximum rated loads. (When the wire rope length is 800 m.)

Hook Capacity (ton)		Hook Weight (ton)											
			11 X 2Falls	10 X 2Falls	9 X 2Falls	8 X 2Falls	7 X 2Falls	6 X 2Falls	5 X 2Falls				
320	Double-Reeling	7.9	-	-	250	235	208	180	151				
			11 Falls	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
280	Single-Reeling	7.0	157	144	131	118	104	-	-	-	-	-	-
160	Single-Reeling	3.9	157	144	131	118	104	90	76	-	-	-	-
65	Single-Reeling	* 3.0 / 2.0	-	-	-	-	-	-	65	61	46	31	-
15	Single-Reeling	1.0	-	-	-	-	-	-	-	-	-	-	-

\* ; With auxiliary weights / Without auxiliary weights

10. The chart below shows the operable windings based on the length of each boom.

Tower Length (m)		36										
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	78	84
320	Double-Reeling	Max.	9 x 2	9 x 2	8 x 2	6 x 2	5 x 2	-	-	-	-	-
		Min.	5 x 2	5 x 2	-	-	-	-	-	-	-	-
280	Single-Reeling	Max.	11	11	10	9	8	8	7	6	-	-
		Min.	6	6	6	6	6	6	6	6	-	-
160	Single-Reeling	Max.	11	11	10	9	8	8	7	6	5	-
		Min.	5	5	5	5	5	5	5	5	5	-
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	4	4
		Min.	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-

Tower Length (m)		48										
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	78	84
320	Double-Reeling	Max.	8 x 2	7 x 2	6 x 2	5 x 2	5 x 2	5 x 2	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	-	-	-	-
280	Single-Reeling	Max.	10	9	8	8	7	6	6	-	-	-
		Min.	6	6	6	6	6	6	6	-	-	-
160	Single-Reeling	Max.	10	9	8	8	7	7	6	5	5	-
		Min.	5	5	5	5	5	5	5	5	5	-
65	Single-Reeling	Max.	5	5	5	5	5	5	5	5	4	3
		Min.	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-

## Notes

Tower Length (m)		60										
Hook Capacity (ton) / Jib Length (m)		24	30	36	42	48	54	60	66	72	78	84
320	Double-Reeling	Max.	6 x 2	5 x 2	5 x 2	-	-	-	-	-	-	-
		Min.	5 x 2	5 x 2	5 x 2	-	-	-	-	-	-	-
280	Single-Reeling	Max.	8	8	7	7	6	-	-	-	-	-
		Min.	6	6	6	6	6	-	-	-	-	-
160	Single-Reeling	Max.	8	8	7	6	6	5	5	-	-	-
		Min.	5	5	5	5	5	5	5	-	-	-
65	Single-Reeling	Max.	5	5	5	5	5	5	5	4	4	3
		Min.	2	2	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-	-	-

Tower Length (m)		72								
Hook Capacity (ton) / Jib Length (m)		36	42	48	54	60	66	72	78	84
280	Single-Reeling	Max.	6	-	-	-	-	-	-	-
		Min.	6	-	-	-	-	-	-	-
160	Single-Reeling	Max.	6	5	5	-	-	-	-	-
		Min.	5	5	5	-	-	-	-	-
65	Single-Reeling	Max.	5	5	5	4	4	3	3	2
		Min.	2	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	-	-

Tower Length (m)		84							
Hook Capacity (ton) / Jib Length (m)		48	54	60	66	72	78	84	
65	Single-Reeling	Max.	4	3	3	3	2	2	2
		Min.	2	2	2	2	2	2	2
15	Single-Reeling		-	-	-	-	-	-	

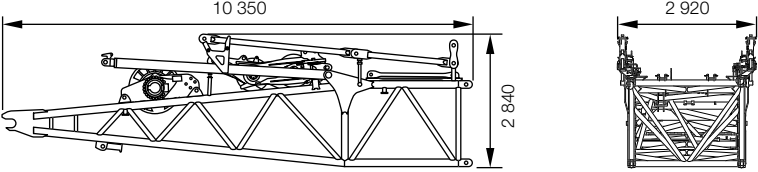
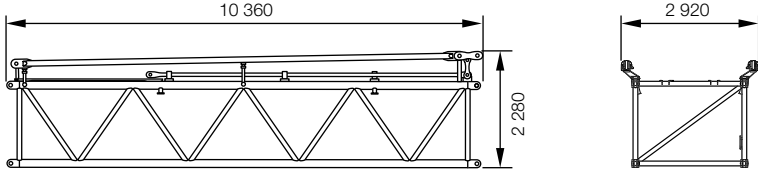
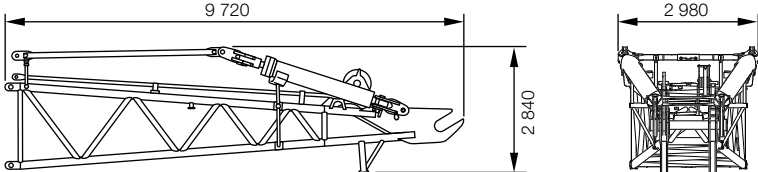
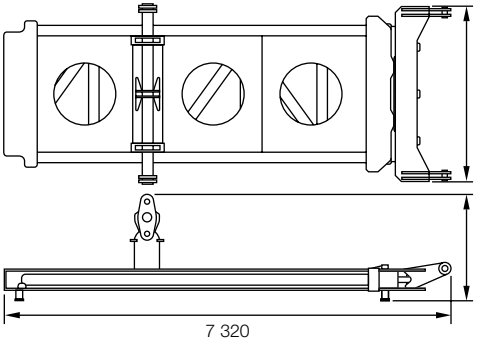
11. If the total mass of the hook mass and the mass of all rigging components is lighter than the mass indicated on this chart, the hook may not lower even when a lowering operation is performed.

Please select a hook that can be lowered based on the boom length and number of windings.

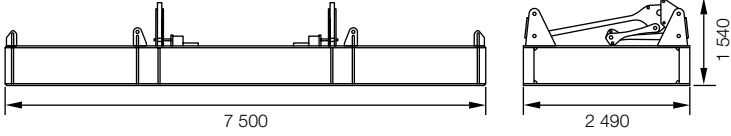
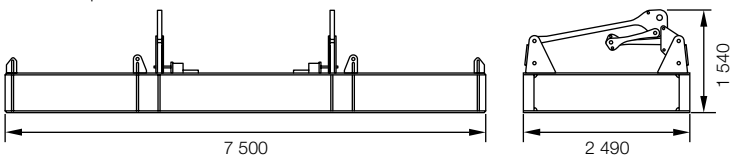
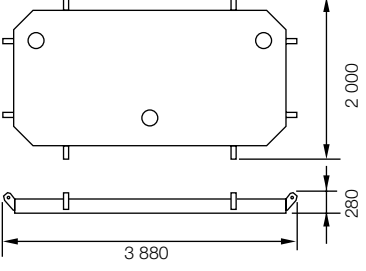
Tower Length + Luffing Jib Length	1 Fall	2 Falls	3 Falls	4 Falls	5 Falls	6 Falls	7 Falls	8 Falls	9 Falls	10 Falls	11 Falls
60 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	4.1
66 m	-	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	4.0	4.5
72 m	-	2.0	2.0	2.0	2.1	3.9	3.9	3.9	3.9	4.4	-
78 m	-	2.0	2.0	2.0	2.3	3.9	3.9	3.9	4.2	-	-
84 m	-	2.0	2.0	2.0	2.4	3.9	3.9	4.0	-	-	-
90 m	-	2.0	2.0	2.1	2.6	3.9	3.9	4.3	-	-	-
96 m	-	2.0	2.0	2.2	2.8	3.9	4.0	-	-	-	-
102 m	-	2.0	2.0	2.3	3.0	3.9	4.2	-	-	-	-
108 m	-	2.0	2.0	2.5	3.1	3.9	-	-	-	-	-
114 m	-	2.0	2.0	2.6	3.3	-	-	-	-	-	-
120 m	-	2.0	2.0	2.8	3.5	-	-	-	-	-	-
126 m	-	2.0	2.1	2.9	-	-	-	-	-	-	-
132 m	-	2.0	2.3	3.0	-	-	-	-	-	-	-
138 m	-	2.0	2.4	-	-	-	-	-	-	-	-
144 m	-	2.0	2.5	-	-	-	-	-	-	-	-
150 m	-	2.0	2.6	-	-	-	-	-	-	-	-
156 m	-	2.0	2.7	-	-	-	-	-	-	-	-
162 m	-	2.0	-	-	-	-	-	-	-	-	-
168 m	-	2.0	-	-	-	-	-	-	-	-	-

12. Travel and slew with pallet grounded is not to be able to done. The pallet remains on the ground even if the rated load capacity is hoisted under the value with \* mark.

## SL-T Attachments

Description	Q'ty	Dimensions (mm)	Mass (kg)
<p>MB 10 Long Mast Base Section With W5 winch With Bail / Bridle Assy With Mast pendants</p>	1		17 100
<p>MB 10 Long Mast Extension With Connecting Pin With Mast pendants</p>	1		4 500
<p>MT 9 Long Mast Top Section With Connecting Pin With Mast pendants</p>	1		8 300
Connector Beam	1		7 000

## SL-T Attachments

Description	Q'ty	Dimensions (mm)	Mass (kg)
Pallet	1	<p>w / o T.T.B quick disconnect device</p>  <p>w / T.T.B quick disconnect device</p> 	4 600
External Conterweight	24		10 000

- 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 Unit as old one.

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