



SPECIFICATIONS



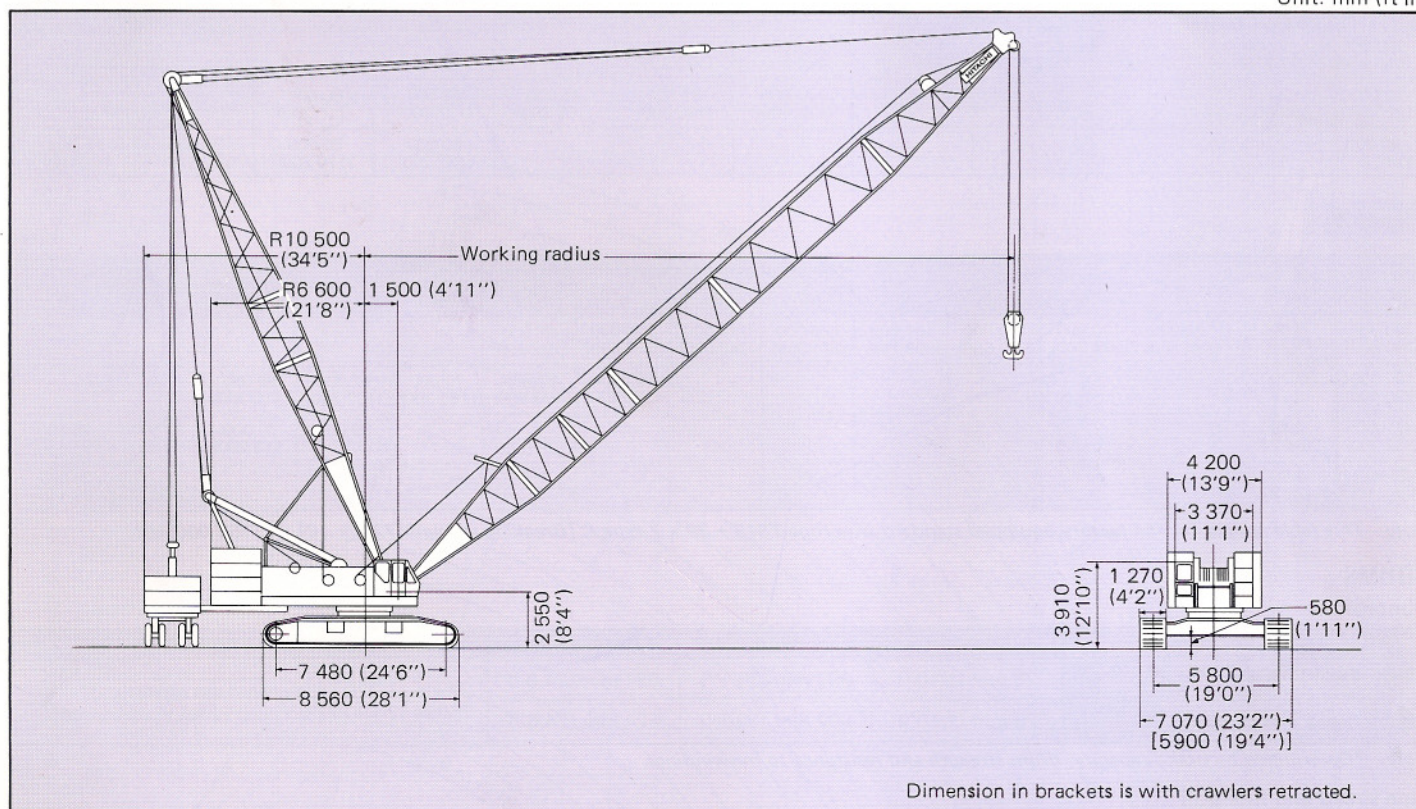
HITACHI

KH1000

COUNTERBALANCING
HYDRAULIC CRAWLER CRANEMax. Lifting Capacity: **Series 1** 130 000 kg (286 600 lb) at 10.0 m (32'10")**Series 2** 180 000 kg (396 800 lb) at 8.1 m (26'7")

Dimensions

Unit: mm (ft in)



Specifications

		Series 1	Series 2
Maximum rated load		130 000 kg (286 600 lb) at 10.0 m (32'10") working radius	180 000 kg (396 800 lb) at 8.1 m (26'7") working radius
Boom length	Heavy-duty service	36.0 m (118'1") [with 24.0 m (78'9") mast (CB)]	to 60.0 m (196'10") [with 30.0 m (98'5") mast (CB)]
	Light-duty service	39.0 m (127'11") [with 24.0 m (78'9") mast (CB)]	to 99.0 m (324'10") [with 39.0 m (127'11") mast (CB)]
Line speed*	Main (hook) hoist drum hoisting/lowering [Rope dia.: 28 mm (1.10")]	Extra high: 85 m/min (278.9 ft/min) High: 48 m/min (157.5 ft/min) Low: 24 m/min (78.7 ft/min)	
	Boom (Aux.) hoist drum hoisting/lowering [Rope dia.: 28 mm (1.10")]	High: 48 m/min (157.5 ft/min) Low: 24 m/min (78.7 ft/min)	
	Mast (CB) hoisting/lowering [Rope dia.: 22 mm (0.87")]	20 m/min x 2 (65.6 ft/min x 2)	
Swing speed*		0 to 0.5 min ⁻¹ (0 to 0.5 rpm)	
Travel speed*		0 to 0.47 km/h (0 to 0.29 mph)	
Ground pressure		1.3 bar (1.3 kgf/cm ² , 18.49 psi)	
Operating weight		254 000 kg (560 000 lb) [Equipped with basic boom (Heavy-duty service), 200 000 kg (440 900 lb) capacity hook, 60 000 kg (132 000 lb) counterweight, and 70 000 kg (154 300 lb) tail weight (with carrier)]	260 000 kg (573 200 lb) [Equipped with basic boom (Heavy-duty service), 200 000 kg (440 900 lb) capacity hook, 60 000 kg (132 000 lb) counterweight and 76 000 kg (167 600 lb) tail weight (with carrier)]
Engine	Model	ISUZU 12PB1	
	Rated horsepower	199 kW (270 PS) at 2 000 min ⁻¹ (2 000 rpm)	
Tail weight		70 000 kg (154 300 lb) (with carrier)	76 000 kg (167 600 lb) (with carrier)
Tires		14.00-24-20PR [Double x 4]	

*Vary according to the load.



HOOKS

Series 1

Capacity kg (lb)	Hook weight kg (lb)	Number of hoist reeving and maximum rated load kg (lb)									
		11	10	9	8	7	6	5	4	3	2
200 000 (440 900)	3 500 (7 710)	130 000 (286 600)	125 000 (275 500)	112 500 (248 000)	100 000 (220 400)	87 500 (192 900)					
100 000 (220 400)	2 700 (5 950)				100 000 (220 400)	87 500 (192 900)	75 000 (165 300)	62 500 (137 700)	50 000 (110 200)		
60 000 (132 200)	2 100 (4 620)							60 000 (132 200)	50 000 (110 200)	37 500 (82 670)	25 000 (55 110)

Series 2

Capacity kg (lb)	Hook weight kg (lb)	Number of hoist reeving and maximum rated load kg (lb)												
		16	14	12	11	10	9	8	7	6	5	4	3	2
200 000 (440 900)	3 500 (7 710)	180 000 (396 800)	170 000 (374 700)	150 000 (330 600)	137 500 (303 100)	125 000 (275 500)	112 500 (248 000)	100 000 (220 400)	87 500 (192 900)					
100 000 (220 400)	2 700 (5 950)							100 000 (220 400)	87 500 (192 900)	75 000 (165 300)	62 500 (137 700)	50 000 (110 200)		
60 000 (132 200)	2 100 (4 620)										60 000 (132 200)	50 000 (110 200)	37 500 (82 670)	25 000 (55 110)
25 000 (55 110)	1 100 (2 420)													25 000 (55 110)

Note: This table applies for the factory equipped standard wire rope TS19 + 39 x 7 type C [Breaking strength 72.6×10^3 kg (160 000 lb)].

DRUMS

Dimensions

	Rope dia.	Width	Drum p.c.d.	Max. rope capacity
Main (hook) hoist drum	28 mm (1.10")	992 mm (39.1")	624 mm (24.6")	373 m (1 220') (5th layer) (in operation)* 760 m (2 490') (9th layer) (not in operation)
Boom (Aux.) hoist drum	28 mm (1.10")	992 mm (39.1")	624 mm (24.6")	

Note: *Determined by brake capacity, drum strength and resistance to miswindings.

Line speed and line pull

	Max. line speed m/min (ft/min)				Effective line pull	@	Line speed	Max. running line pull	Max. starting line pull
	Hoisting		Lowering						
Main (hook) hoist drum	E	85 (278.9)	E	85 (278.9)	78 kN (8 000 kgf) (17 600 lbf)	@	75 m/min (246 ft/min)	118 kN (12 000 kgf) (26 400 lbf)	108 kN (11 000 kgf) (24 200 lbf)
	H	48 (157.5)	H	48 (157.5)	177 kN (18 000 kgf) (39 680 lbf)	@	40 m/min (131 ft/min)	245 kN (25 000 kgf) (55 110 lbf)	225 kN (23 000 kgf) (50 700 lbf)
	L	24 (78.7)	L	24 (78.7)					
Boom (Aux.) hoist drum	H	48 (157.5)	H	48 (157.5)	177 kN (18 000 kgf) (39 680 lbf)	@	40 m/min (131 ft/min)	245 kN (25 000 kgf) (55 110 lbf)	225 kN (23 000 kgf) (50 700 lbf)
	L	24 (78.7)	L	24 (78.7)					

E: Extra high speed range (for light-duty service) H: High speed range L: Low speed range

Notes:

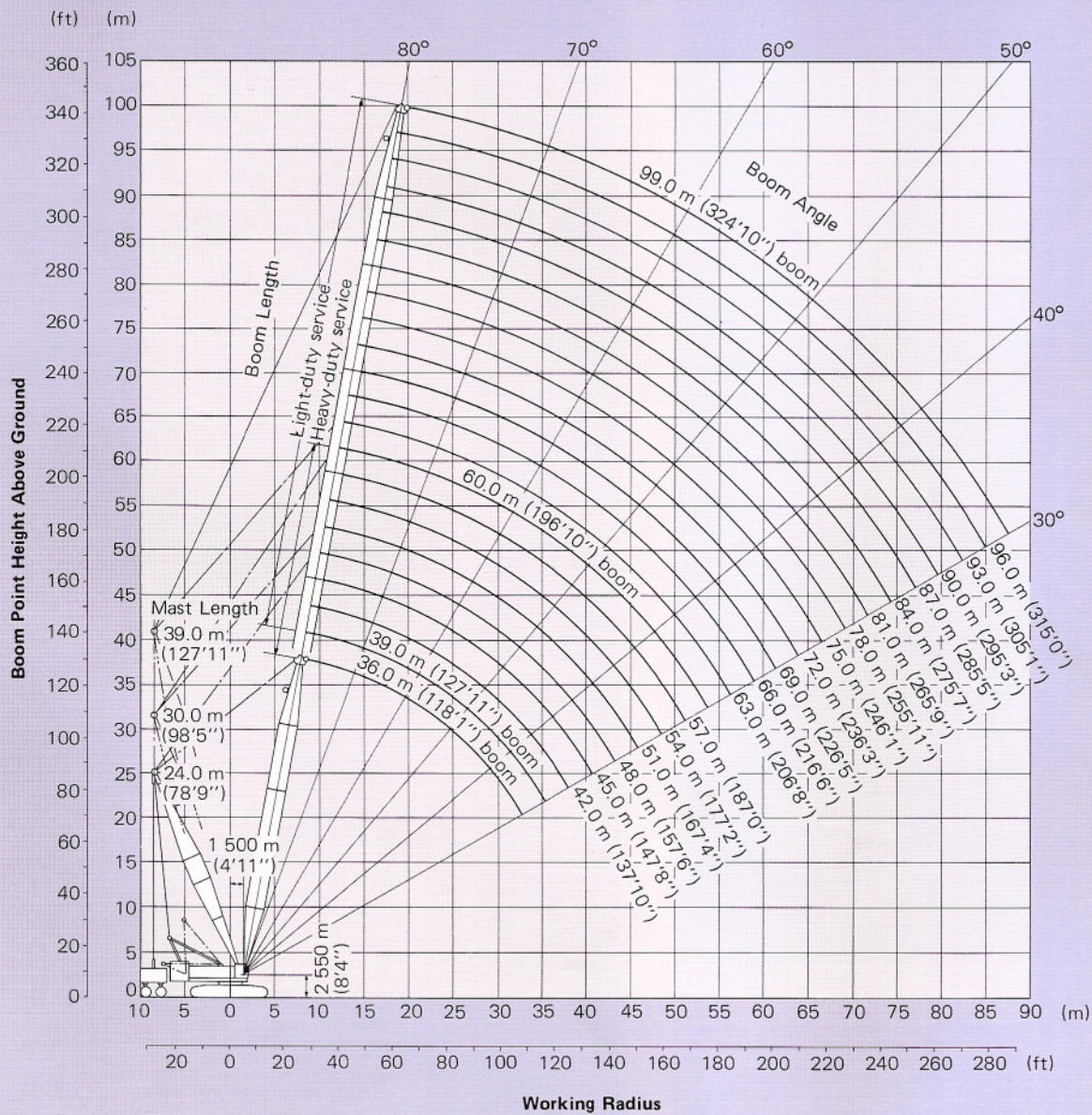
- Line speed and line pull are based on first layer of winding at rated engine rpm.
- Hoisting line speed varies with load.
- Line pull is based on a single line pull in high speed range.
- Effective line pull is equivalent to available line pull of mechanical drive winch.

MAST (CB) HOIST DRUM (Twin Drum)

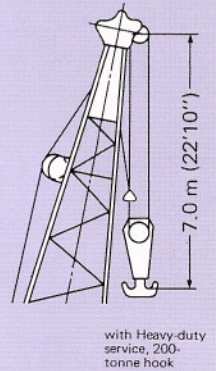
Rope diameter	Hoisting line speed	Lowering line speed
22 mm (0.72")	20 m/min (65.5 ft/min) x 2	20 m/min (65.5 ft/min) x 2



Working Ranges



Hook Clearance





Crane Ratings

JIS Rating

The rated loads shown do not exceed 78% of tipping load when the machine is stationed on firm, level ground.

BS Rating

The rated loads are determined according to BS (British Standard: 1981) on the condition that the machine is stationed on firm, level ground.

PCSA Rating

The rated loads listed are determined according to PCSA (Power Crane and Shovel Association, U.S.A.) and do not exceed 75% of tipping load on condition that the machine is stationed on firm, level ground.

Series 1

Tubular Chord Crane Boom in 360° Working Area

Heavy-duty Service

Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
				kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb
36.0 (118'1")	8.1	26' 7"	130 000	124 000	273 300	130 000	286 600	
	9.0	29' 6"	130 000	124 000	273 300	130 000	286 600	
	10.0	32' 10"	130 000	124 000	273 300	130 000	286 600	
	12.0	39' 4"	110 000	110 000	242 500	110 000	242 500	
	14.0	45' 11"	89 000	89 000	196 200	89 000	196 200	
	16.0	52' 6"	74 500	74 500	164 200	74 500	164 200	
	18.0	59' 1"	63 900	63 900	140 800	63 900	140 800	
	20.0	65' 7"	55 700	55 700	122 700	55 700	122 700	
	22.0	72' 2"	49 400	49 400	108 900	49 400	108 900	
	24.0	78' 9"	44 200	44 200	97 440	44 200	97 440	
	26.0	85' 4"	40 000	40 000	88 180	40 000	88 180	
	28.0	91' 10"	36 500	36 500	80 460	36 500	80 460	
	30.0	98' 5"	33 500	33 500	73 850	33 500	73 850	
	32.0	105' 0"	31 000	31 000	68 340	31 000	68 340	
	39.0 (127'11")	9.0	29' 6"	122 300	110 000	242 500	122 300	269 600
		10.0	32' 10"	121 800	110 000	242 500	121 800	268 500
12.0		39' 4"	109 700	109 700	241 800	109 700	241 800	
14.0		45' 11"	88 700	88 700	195 500	88 700	195 500	
16.0		52' 6"	74 200	74 200	163 500	74 200	163 500	
18.0		59' 1"	63 500	63 500	139 900	63 500	139 900	
20.0		65' 7"	55 400	55 400	122 100	55 400	122 100	
22.0		72' 2"	49 000	49 000	108 000	49 000	108 000	
24.0		78' 9"	43 900	43 900	96 780	43 900	96 780	
26.0		85' 4"	39 600	39 600	87 300	39 600	87 300	
28.0		91' 10"	36 100	36 100	79 580	36 100	79 580	
30.0		98' 5"	33 100	33 100	72 970	33 100	72 970	
32.0		105' 0"	30 500	30 500	67 240	30 500	67 230	
34.0		111' 7"	28 400	28 400	62 610	28 400	62 610	
42.0 (137'10")		10.0	32' 10"	107 700	100 000	220 400	107 700	237 400
		12.0	39' 4"	106 800	100 000	220 400	106 800	235 400
	14.0	45' 11"	88 600	88 600	195 300	88 600	195 300	
	16.0	52' 6"	74 100	74 100	163 300	74 100	163 300	
	18.0	59' 1"	63 500	63 500	139 900	63 500	139 900	
	20.0	65' 7"	55 300	55 300	121 900	55 300	121 900	
	22.0	72' 2"	48 900	48 900	107 800	48 900	107 800	
	24.0	78' 9"	43 800	43 800	96 560	43 800	96 560	
	26.0	85' 4"	39 500	39 500	87 080	39 500	87 080	
	28.0	91' 10"	35 900	35 900	79 140	35 900	79 140	
	30.0	98' 5"	32 900	32 900	72 530	32 900	72 530	
	32.0	105' 0"	30 300	30 300	66 800	30 300	66 790	
	34.0	111' 7"	28 100	28 100	61 940	28 100	61 940	
	36.0	118' 1"	26 200	26 200	57 760	26 200	57 760	
	38.0	124' 8"	24 500	24 500	54 010	24 500	54 010	
	45.0 (147'8")	10.0	32' 10"	97 700	89 400	197 000	97 700	215 300
12.0		39' 4"	96 700	89 400	197 000	96 700	213 100	
14.0		45' 11"	88 500	88 500	195 100	88 500	195 100	
16.0		52' 6"	74 000	74 000	163 100	74 000	163 100	
18.0		59' 1"	63 300	63 300	139 500	63 300	139 500	
20.0		65' 7"	55 200	55 200	121 600	55 200	121 600	
22.0		72' 2"	48 800	48 800	107 500	48 800	107 500	
24.0		78' 9"	43 600	43 600	96 120	43 600	96 110	
26.0		85' 4"	39 300	39 300	86 640	39 300	86 640	
28.0		91' 10"	35 800	35 800	78 920	35 800	78 920	
30.0		98' 5"	32 700	32 700	72 090	32 700	72 080	
32.0		105' 0"	30 100	30 100	66 350	30 100	66 350	
34.0		111' 7"	27 900	27 900	61 500	27 900	61 500	
36.0		118' 1"	25 900	25 900	57 090	25 900	57 090	
38.0		124' 8"	24 200	24 200	53 350	24 200	53 350	
40.0		131' 3"	22 700	22 700	50 040	22 700	50 040	
48.0 (157'6")	12.0	39' 4"	87 500	80 300	177 000	87 500	192 900	
	14.0	45' 11"	87 000	80 300	177 000	87 000	191 700	
	16.0	52' 6"	73 900	73 900	162 900	73 900	162 900	
	18.0	59' 1"	63 200	63 200	139 300	63 200	139 300	
	20.0	65' 7"	55 000	55 000	121 200	55 000	121 200	
	22.0	72' 2"	48 600	48 600	107 100	48 600	107 100	
	24.0	78' 9"	43 400	43 400	95 680	43 400	95 670	
	26.0	85' 4"	39 200	39 200	86 420	39 200	86 410	
	28.0	91' 10"	35 600	35 600	78 480	35 600	78 480	
	30.0	98' 5"	32 500	32 500	71 650	32 500	71 640	
	32.0	105' 0"	29 900	29 900	65 910	29 900	65 910	
	34.0	111' 7"	27 600	27 600	60 840	27 600	60 840	
	36.0	118' 1"	25 700	25 700	56 650	25 700	56 650	
	38.0	124' 8"	23 900	23 900	52 690	23 900	52 680	
	40.0	131' 3"	22 400	22 400	49 380	22 400	49 380	
	42.0	137' 10"	21 000	21 000	46 290	21 000	46 290	



Light-duty Service

Mast (CB) length	Boom length	Working radius		Rated load					
				JIS rating	BS rating		PCSA rating		
					kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb	
24.0 (78'9")	39.0 (127'11")	9.0	29' 6"	100 000	100 000	220 400	100 000	220 400	
		10.0	32'10"	100 000	100 000	220 400	100 000	220 400	
		12.0	39' 4"	100 000	100 000	220 400	100 000	220 400	
		14.0	45'11"	90 200	90 200	198 800	90 200	198 800	
		16.0	52' 6"	75 600	75 600	166 600	75 600	166 600	
		18.0	59' 1"	65 000	65 000	143 200	65 000	143 200	
		20.0	65' 7"	56 800	56 800	125 200	56 800	125 200	
		22.0	72' 2"	50 400	50 400	111 100	50 400	111 100	
		24.0	78' 9"	45 200	45 200	99 640	45 200	99 640	
		26.0	85' 4"	41 000	41 000	90 380	41 000	90 380	
		28.0	91'10"	37 400	37 400	82 450	37 400	82 450	
		30.0	98' 5"	34 300	34 300	75 610	34 300	75 610	
		32.0	105' 0"	31 700	31 700	69 880	31 700	69 880	
		34.0	111' 7"	29 500	29 500	65 030	29 500	65 030	
	42.0 (137'10")	10.0	32'10"	100 000	100 000	220 400	100 000	220 400	
		12.0	39' 4"	100 000	100 000	220 400	100 000	220 400	
		14.0	45'11"	89 900	89 900	198 100	89 900	198 100	
		16.0	52' 6"	75 400	75 400	166 200	75 400	166 200	
		18.0	59' 1"	64 700	64 700	142 600	64 700	142 600	
		20.0	65' 7"	56 600	56 600	124 700	56 600	124 700	
		22.0	72' 2"	50 200	50 200	110 600	50 200	110 600	
		24.0	78' 9"	45 000	45 000	99 200	45 000	99 200	
		26.0	85' 4"	40 700	40 700	89 720	40 700	89 720	
		28.0	91'10"	37 100	37 100	81 790	37 100	81 790	
		30.0	98' 5"	34 100	34 100	75 170	34 100	75 170	
		32.0	105' 0"	31 500	31 500	69 440	31 500	69 440	
		34.0	111' 7"	29 200	29 200	64 370	29 200	64 370	
		36.0	118' 1"	27 200	27 200	59 960	27 200	59 960	
	38.0	124' 8"	25 500	25 500	56 210	25 500	56 210		
	45.0 (147'8")	10.0	32'10"	96 700	90 000	198 400	96 700	213 100	
		12.0	39' 4"	96 100	90 000	198 400	96 100	211 800	
		14.0	45'11"	89 700	89 700	197 700	89 700	197 700	
		16.0	52' 6"	75 200	75 200	165 700	75 200	165 700	
		18.0	59' 1"	64 500	64 500	142 100	64 500	142 100	
		20.0	65' 7"	56 400	56 400	124 300	56 400	124 300	
		22.0	72' 2"	50 000	50 000	110 200	50 000	110 200	
		24.0	78' 9"	44 800	44 800	98 760	44 800	98 760	
		26.0	85' 4"	40 500	40 500	89 280	40 500	89 280	
		28.0	91'10"	36 900	36 900	81 340	36 900	81 340	
		30.0	98' 5"	33 800	33 800	74 510	33 800	74 510	
		32.0	105' 0"	31 200	31 200	68 780	31 200	68 780	
		34.0	111' 7"	28 900	28 900	63 710	28 900	63 710	
		36.0	118' 1"	27 000	27 000	59 520	27 000	59 520	
		38.0	124' 8"	25 200	25 200	55 550	25 200	55 550	
		40.0	131' 3"	23 700	23 700	52 240	23 700	52 240	
	48.0 (157'6")	12.0	39' 4"	88 400	81 800	180 300	88 400	194 800	
		14.0	45'11"	87 800	81 800	180 300	87 800	193 500	
		16.0	52' 6"	75 100	75 100	165 500	75 100	165 500	
		18.0	59' 1"	64 400	64 400	141 900	64 400	141 900	
		20.0	65' 7"	56 300	56 300	124 100	56 300	124 100	
		22.0	72' 2"	49 800	49 800	109 700	49 800	109 700	
		24.0	78' 9"	44 600	44 600	98 320	44 600	98 320	
		26.0	85' 4"	40 300	40 300	88 840	40 300	88 840	
		28.0	91'10"	36 700	36 700	80 900	36 700	80 900	
		30.0	98' 5"	33 700	33 700	74 290	33 700	74 290	
		32.0	105' 0"	31 100	31 100	68 560	31 100	68 560	
		34.0	111' 7"	28 800	28 800	63 490	28 800	63 490	
		36.0	118' 1"	26 800	26 800	59 080	26 800	59 080	
		38.0	124' 8"	25 000	25 000	55 110	25 000	55 110	
		40.0	131' 3"	23 500	23 500	51 800	23 500	51 800	
		42.0	137'10"	22 100	22 100	48 720	22 100	48 720	
	30.0 (98'5")	51.0 (167'4")	12.0	39' 4"	85 500	78 000	171 900	85 500	188 400
			14.0	45'11"	85 500	78 000	171 900	85 500	188 400
			16.0	52' 6"	75 400	75 400	166 200	75 400	166 200
			18.0	59' 1"	64 700	64 700	142 600	64 700	142 600
			20.0	65' 7"	56 400	56 400	124 300	56 400	124 300
			22.0	72' 2"	50 000	50 000	110 200	50 000	110 200
			24.0	78' 9"	44 700	44 700	98 540	44 700	98 540
			26.0	85' 4"	40 400	40 400	89 060	40 400	89 060
			28.0	91'10"	36 800	36 800	81 120	36 800	81 120
			30.0	98' 5"	33 700	33 700	74 290	33 700	74 290
			32.0	105' 0"	31 100	31 100	68 560	31 100	68 560
			34.0	111' 7"	28 800	28 800	63 490	28 800	63 490
			36.0	118' 1"	26 700	26 700	58 860	26 700	58 860
			38.0	124' 8"	25 000	25 000	55 110	25 000	55 110
			40.0	131' 3"	23 400	23 400	51 580	23 400	51 580
			42.0	137'10"	22 000	22 000	48 500	22 000	48 500
		54.0 (177'2")	14.0	45'11"	77 700	70 000	154 300	77 700	171 200
			16.0	52' 6"	75 200	70 000	154 300	75 200	165 700
			18.0	59' 1"	64 400	64 400	141 900	64 400	141 900
			20.0	65' 7"	56 200	56 200	123 800	56 200	123 800
	22.0		72' 2"	49 700	49 700	109 500	49 700	109 500	
	24.0		78' 9"	44 500	44 500	98 100	44 500	98 100	
	26.0		85' 4"	40 200	40 200	88 620	40 200	88 620	
	28.0		91'10"	36 500	36 500	80 460	36 500	80 460	
	57.0 (187'0")	30.0	98' 5"	33 400	33 400	73 630	33 400	73 630	
		32.0	105' 0"	30 800	30 800	67 900	30 800	67 900	
		34.0	111' 7"	28 500	28 500	62 830	28 500	62 830	
		36.0	118' 1"	26 500	26 500	58 420	26 500	58 420	
		38.0	124' 8"	24 700	24 700	54 450	24 700	54 450	
		40.0	131' 3"	23 100	23 100	50 920	23 100	50 920	
		42.0	137'10"	21 700	21 700	47 830	21 700	47 830	
		44.0	144' 4"	20 500	20 500	45 190	20 500	45 190	
		46.0	150'11"	19 300	19 300	42 540	19 300	42 540	
		48.0	157' 6"	18 300	18 300	40 340	18 300	40 340	
		50.0	164' 1"	17 300	17 300	38 140	17 300	38 140	
		52.0	170' 7"	16 300	16 300	35 940	16 300	35 940	



Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
				kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in					
39.0 (127'11")	69.0 (226'5")	14.0	45'11"	50 000	45 500	100 300	50 000	110 200
		16.0	52' 6"	50 000	45 500	100 300	50 000	110 200
		18.0	59' 1"	50 000	45 500	100 300	50 000	110 200
		20.0	65' 7"	50 000	45 500	100 300	50 000	110 200
		22.0	72' 2"	49 300	45 500	100 300	49 300	108 600
		24.0	78' 9"	44 000	44 000	97 000	44 000	97 000
		26.0	85' 4"	39 600	39 600	87 300	39 600	87 300
		28.0	91'10"	36 000	36 000	79 360	36 000	79 360
		30.0	98' 5"	32 900	32 900	72 530	32 900	72 530
		32.0	105' 0"	30 200	30 200	66 570	30 200	66 570
		34.0	111' 7"	27 800	27 800	61 280	27 800	61 280
		36.0	118' 1"	25 800	25 800	56 870	25 800	56 870
		38.0	124' 8"	24 000	24 000	52 910	24 000	52 910
		40.0	131' 3"	22 300	22 300	49 160	22 300	49 160
		42.0	137'10"	20 900	20 900	46 070	20 900	46 070
		44.0	144' 4"	19 600	19 600	43 200	19 600	43 200
		46.0	150'11"	18 400	18 400	40 560	18 400	40 560
		48.0	157' 6"	17 400	17 400	38 350	17 400	38 350
		50.0	164' 1"	16 400	16 400	36 150	16 400	36 150
		52.0	170' 7"	15 500	15 500	34 170	15 500	34 170
		54.0	177' 2"	14 700	14 700	32 400	14 700	32 400
		56.0	183' 9"	14 000	14 000	30 860	14 000	30 860
		58.0	190' 3"	13 300	13 300	29 320	13 300	29 320
		60.0	196'10"	12 700	12 700	27 990	12 700	27 990
	72.0 (236'3")	16.0	52' 6"	46 700	42 000	92 590	46 700	102 900
		18.0	59' 1"	46 700	42 000	92 590	46 700	102 900
		20.0	65' 7"	46 700	42 000	92 590	46 700	102 900
		22.0	72' 2"	46 700	42 000	92 590	46 700	102 900
		24.0	78' 9"	43 900	42 000	92 590	43 900	96 780
		26.0	85' 4"	39 500	39 500	87 080	39 500	87 080
		28.0	91'10"	35 900	35 900	79 140	35 900	79 140
		30.0	98' 5"	32 700	32 700	72 080	32 700	72 080
		32.0	105' 0"	30 000	30 000	66 130	30 000	66 130
		34.0	111' 7"	27 700	27 700	61 060	27 700	61 060
		36.0	118' 1"	25 600	25 600	56 430	25 600	56 430
		38.0	124' 8"	23 800	23 800	52 460	23 800	52 460
		40.0	131' 3"	22 200	22 200	48 940	22 200	48 940
		42.0	137'10"	20 800	20 800	45 850	20 800	45 850
		44.0	144' 4"	19 500	19 500	42 980	19 500	42 980
		46.0	150'11"	18 300	18 300	40 340	18 300	40 340
		48.0	157' 6"	17 200	17 200	37 910	17 200	37 910
		50.0	164' 1"	16 300	16 300	35 930	16 300	35 930
		52.0	170' 7"	15 400	15 400	33 950	15 400	33 950
		54.0	177' 2"	14 600	14 600	32 180	14 600	32 180
		56.0	183' 9"	13 800	13 800	30 420	13 800	30 420
	75.0 (246'1")	58.0	190' 3"	13 200	13 200	29 100	13 200	29 100
		60.0	196'10"	12 500	12 500	27 550	12 500	27 550
		62.0	203' 5"	12 000	12 000	26 450	12 000	26 450
		64.0	210' 0"	11 400	11 400	25 130	11 400	25 130
		16.0	52' 6"	42 400	38 100	83 990	42 400	93 470
		18.0	59' 1"	42 400	38 100	83 990	42 400	93 470
		20.0	65' 7"	42 400	38 100	83 990	42 400	93 470
		22.0	72' 2"	42 400	38 100	83 990	42 400	93 470
		24.0	78' 9"	42 400	38 100	83 990	42 400	93 470
		26.0	85' 4"	39 500	38 100	83 990	39 500	87 080
		28.0	91'10"	35 800	35 800	78 920	35 800	78 920
		30.0	98' 5"	32 700	32 700	72 080	32 700	72 080
		32.0	105' 0"	30 000	30 000	66 130	30 000	66 130
		34.0	111' 7"	27 600	27 600	60 840	27 600	60 840
		36.0	118' 1"	25 600	25 600	56 430	25 600	56 430
		38.0	124' 8"	23 700	23 700	52 240	23 700	52 240
		40.0	131' 3"	22 100	22 100	48 720	22 100	48 720
		42.0	137'10"	20 700	20 700	45 630	20 700	45 630
		44.0	144' 4"	19 400	19 400	42 760	19 400	42 760
		46.0	150'11"	18 200	18 200	40 120	18 200	40 120
		48.0	157' 6"	17 100	17 100	37 690	17 100	37 690
		50.0	164' 1"	16 100	16 100	35 490	16 100	35 490
		52.0	170' 7"	15 200	15 200	33 500	15 200	33 500
		54.0	177' 2"	14 400	14 400	31 740	14 400	31 740
		56.0	183' 9"	13 700	13 700	30 200	13 700	30 200
		58.0	190' 3"	13 000	13 000	28 650	13 000	28 650
		60.0	196'10"	12 300	12 300	27 110	12 300	27 110
		62.0	203' 5"	11 800	11 800	26 010	11 800	26 010
		64.0	210' 0"	11 200	11 200	24 690	11 200	24 690
		66.0	216' 6"	10 700	10 700	23 580	10 700	23 580

Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
				kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb
39.0 (127'11")	78.0 (255'11")	16.0	52' 6"	38 200	34 700	76 490	38 200	84 210
		18.0	59' 1"	38 200	34 700	76 490	38 200	84 210
		20.0	65' 7"	38 200	34 700	76 490	38 200	84 210
		22.0	72' 2"	38 200	34 700	76 490	38 200	84 210
		24.0	78' 9"	38 200	34 700	76 490	38 200	84 210
		26.0	85' 4"	38 200	34 700	76 490	38 200	84 210
		28.0	91'10"	35 600	34 700	76 490	35 600	78 480
		30.0	98' 5"	32 400	32 400	71 420	32 400	71 420
		32.0	105' 0"	29 700	29 700	65 470	29 700	65 470
		34.0	111' 7"	27 400	27 400	60 400	27 400	60 400
		36.0	118' 1"	25 300	25 300	55 770	25 300	55 770
		38.0	124' 8"	23 500	23 500	51 800	23 500	51 800
		40.0	131' 3"	21 900	21 900	48 280	21 900	48 280
		42.0	137'10"	20 400	20 400	44 970	20 400	44 970
		44.0	144' 4"	19 100	19 100	42 100	19 100	42 100
		46.0	150'11"	17 900	17 900	39 460	17 900	39 460
		48.0	157' 6"	16 900	16 900	37 250	16 900	37 250
		50.0	164' 1"	15 900	15 900	35 050	15 900	35 050
		52.0	170' 7"	15 000	15 000	33 060	15 000	33 060
		54.0	177' 2"	14 200	14 200	31 300	14 200	31 300
		56.0	183' 9"	13 400	13 400	29 540	13 400	29 540
		58.0	190' 3"	12 700	12 700	27 990	12 700	27 990
		60.0	196'10"	12 100	12 100	26 670	12 100	26 670
		62.0	203' 5"	11 500	11 500	25 350	11 500	25 350
		64.0	210' 0"	10 900	10 900	24 020	10 900	24 020
		66.0	216' 6"	10 400	10 400	22 920	10 400	22 920
		68.0	223' 1"	10 000	10 000	22 040	10 000	22 040
	81.0 (265'9")	16.0	52' 6"	34 900	31 100	68 560	34 900	76 940
		18.0	59' 1"	34 900	31 100	68 560	34 900	76 940
		20.0	65' 7"	34 900	31 100	68 560	34 900	76 940
		22.0	72' 2"	34 900	31 100	68 560	34 900	76 940
		24.0	78' 9"	34 900	31 100	68 560	34 900	76 940
		26.0	85' 4"	34 900	31 100	68 560	34 900	76 940
		28.0	91'10"	34 900	31 100	68 560	34 900	76 940
		30.0	98' 5"	32 200	31 100	68 560	32 200	70 980
		32.0	105' 0"	29 500	29 500	65 030	29 500	65 030
		34.0	111' 7"	27 100	27 100	59 740	27 100	59 740
		36.0	118' 1"	25 100	25 100	55 330	25 100	55 330
		38.0	124' 8"	23 300	23 300	51 360	23 300	51 360
		40.0	131' 3"	21 600	21 600	47 610	21 600	47 610
		42.0	137'10"	20 200	20 200	44 530	20 200	44 530
		44.0	144' 4"	18 900	18 900	41 660	18 900	41 660
		46.0	150'11"	17 700	17 700	39 020	17 700	39 020
		48.0	157' 6"	16 600	16 600	36 590	16 600	36 590
		50.0	164' 1"	15 600	15 600	34 390	15 600	34 390
		52.0	170' 7"	14 800	14 800	32 620	14 800	32 620
54.0		177' 2"	13 900	13 900	30 640	13 900	30 640	
56.0		183' 9"	13 200	13 200	29 100	13 200	29 100	
58.0		190' 3"	12 500	12 500	27 550	12 500	27 550	
60.0		196'10"	11 800	11 800	26 010	11 800	26 010	
62.0		203' 5"	11 200	11 200	24 690	11 200	24 690	
64.0		210' 0"	10 700	10 700	23 580	10 700	23 580	
66.0		216' 6"	10 200	10 200	22 480	10 200	22 480	
68.0		223' 1"	9 700	9 700	21 380	9 700	21 380	
70.0	229' 8"	9 300	9 300	20 500	9 300	20 500		
84.0 (275'7")	18.0	59' 1"	31 500	28 700	63 270	31 500	69 440	
	20.0	65' 7"	31 500	28 700	63 270	31 500	69 440	
	22.0	72' 2"	31 500	28 700	63 270	31 500	69 440	
	24.0	78' 9"	31 500	28 700	63 270	31 500	69 440	
	26.0	85' 4"	31 500	28 700	63 270	31 500	69 440	
	28.0	91'10"	31 500	28 700	63 270	31 500	69 440	
	30.0	98' 5"	31 500	28 700	63 270	31 500	69 440	
	32.0	105' 0"	29 600	28 700	63 270	29 600	65 250	
	34.0	111' 7"	27 200	27 200	59 960	27 200	59 960	
	36.0	118' 1"	25 200	25 200	55 550	25 200	55 550	
	38.0	124' 8"	23 300	23 300	51 360	23 300	51 360	
	40.0	131' 3"	21 700	21 700	47 830	21 700	47 830	
	42.0	137'10"	20 300	20 300	44 750	20 300	44 750	
	44.0	144' 4"	19 000	19 000	41 880	19 000	41 880	
	46.0	150'11"	17 800	17 800	39 240	17 800	39 240	
	48.0	157' 6"	16 700	16 700	36 810	16 700	36 810	
	50.0	164' 1"	15 700	15 700	34 610	15 700	34 610	
	52.0	170' 7"	14 800	14 800	32 620	14 800	32 620	
	54.0	177' 2"	14 000	14 000	30 860	14 000	30 860	
	56.0	183' 9"	13 200	13 200	29 100	13 200	29 100	
	58.0	190' 3"	12 500	12 500	27 550	12 500	27 550	
	60.0	196'10"	11 900	11 900	26 230	11 900	26 230	
	62.0	203' 5"	11 300	11 300	24 910	11 300	24 910	
	64.0	210' 0"	10 700	10 700	23 580	10 700	23 580	
	66.0	216' 6"	10 200	10 200	22 480	10 200	22 480	
	68.0	223' 1"	9 700	9 700	21 380	9 700	21 380	
	70.0	229' 8"	9 200	9 200	20 280	9 200	20 280	
72.0	236' 3"	8 800	8 800	19 400	8 800	19 400		
74.0	242' 9"	8 400	8 400	18 510	8 400	18 510		



Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
		m	ft in	kg	kg	lb	kg	lb
39.0 (127'11")	87.0 (285'5")	18.0	59' 1"	29 600	26 100	57 530	29 600	65 250
		20.0	65' 7"	29 600	26 100	57 530	29 600	65 250
		22.0	72' 2"	29 600	26 100	57 530	29 600	65 250
		24.0	78' 9"	29 600	26 100	57 530	29 600	65 250
		26.0	85' 4"	29 600	26 100	57 530	29 600	65 250
		28.0	91' 10"	29 600	26 100	57 530	29 600	65 250
		30.0	98' 5"	29 600	26 100	57 530	29 600	65 250
		32.0	105' 0"	29 300	26 100	57 530	29 300	64 590
		34.0	111' 7"	26 900	26 100	57 530	26 900	59 300
		36.0	118' 1"	24 900	24 900	54 890	24 900	54 890
		38.0	124' 8"	23 000	23 000	50 700	23 000	50 700
		40.0	131' 3"	21 400	21 400	47 170	21 400	47 170
		42.0	137' 10"	20 000	20 000	44 090	20 000	44 090
		44.0	144' 4"	18 600	18 600	41 000	18 600	41 000
		46.0	150' 11"	17 500	17 500	38 580	17 500	38 580
		48.0	157' 6"	16 400	16 400	36 150	16 400	36 150
		50.0	164' 1"	15 400	15 400	33 950	15 400	33 950
		52.0	170' 7"	14 500	14 500	31 960	14 500	31 960
		54.0	177' 2"	13 700	13 700	30 200	13 700	30 200
		56.0	183' 9"	12 900	12 900	28 430	12 900	28 430
		58.0	190' 3"	12 200	12 200	26 890	12 200	26 890
		60.0	196' 10"	11 500	11 500	25 350	11 500	25 350
		62.0	203' 5"	10 900	10 900	24 020	10 900	24 020
		64.0	210' 0"	10 400	10 400	22 920	10 400	22 920
		66.0	216' 6"	9 800	9 800	21 600	9 800	21 600
		68.0	223' 1"	9 400	9 400	20 720	9 400	20 720
		70.0	229' 8"	8 900	8 900	19 620	8 900	19 620
		72.0	236' 3"	8 500	8 500	18 730	8 500	18 730
		74.0	242' 9"	8 100	8 100	17 850	8 100	17 850
		76.0	249' 4"	7 700	7 700	16 970	7 700	16 970
	90.0 (295'3")	18.0	59' 1"	27 100	23 700	52 240	27 100	59 740
		20.0	65' 7"	27 100	23 700	52 240	27 100	59 740
		22.0	72' 2"	27 100	23 700	52 240	27 100	59 740
		24.0	78' 9"	27 100	23 700	52 240	27 100	59 740
		26.0	85' 4"	27 100	23 700	52 240	27 100	59 740
		28.0	91' 10"	27 100	23 700	52 240	27 100	59 740
		30.0	98' 5"	27 100	23 700	52 240	27 100	59 740
		32.0	105' 0"	27 100	23 700	52 240	27 100	59 740
		34.0	111' 7"	26 800	23 700	52 240	26 800	59 080
		36.0	118' 1"	24 700	23 700	52 240	24 700	54 450
		38.0	124' 8"	22 900	22 900	50 480	22 900	50 480
		40.0	131' 3"	21 200	21 200	46 730	21 200	46 730
		42.0	137' 10"	19 800	19 800	43 650	19 800	43 650
		44.0	144' 4"	18 500	18 500	40 780	18 500	40 780
		46.0	150' 11"	17 300	17 300	38 130	17 300	38 130
		48.0	157' 6"	16 200	16 200	35 710	16 200	35 710
		50.0	164' 1"	15 200	15 200	33 500	15 200	33 500
		52.0	170' 7"	14 300	14 300	31 500	14 300	31 500
		54.0	177' 2"	13 500	13 500	29 760	13 500	29 760
		56.0	183' 9"	12 700	12 700	27 990	12 700	27 990
		58.0	190' 3"	12 000	12 000	26 450	12 000	26 450
		60.0	196' 10"	11 300	11 300	24 910	11 300	24 910
		62.0	203' 5"	10 700	10 700	23 580	10 700	23 580
		64.0	210' 0"	10 200	10 200	22 480	10 200	22 480
		66.0	216' 6"	9 600	9 600	21 160	9 600	21 160
		68.0	223' 1"	9 100	9 100	20 060	9 100	20 060
		70.0	229' 8"	8 700	8 700	19 170	8 700	19 170
		72.0	236' 3"	8 300	8 300	18 290	8 300	18 290
		74.0	242' 9"	7 900	7 900	17 410	7 900	17 410
		76.0	249' 4"	7 500	7 500	16 530	7 500	16 530
		78.0	255' 11"	7 200	7 200	15 670	7 200	15 670
	93.0 (305'1")	20.0	65' 7"	24 800	21 000	46 290	24 800	54 670
		22.0	72' 2"	24 800	21 000	46 290	24 800	54 670
		24.0	78' 9"	24 800	21 000	46 290	24 800	54 670
		26.0	85' 4"	24 800	21 000	46 290	24 800	54 670
		28.0	91' 10"	24 800	21 000	46 290	24 800	54 670
		30.0	98' 5"	24 800	21 000	46 290	24 800	54 670
		32.0	105' 0"	24 800	21 000	46 290	24 800	54 670
		34.0	111' 7"	24 800	21 000	46 290	24 800	54 670
		36.0	118' 1"	24 700	21 000	46 290	24 700	54 450
		38.0	124' 8"	22 800	21 000	46 290	22 800	50 260
		40.0	131' 3"	21 100	21 000	46 290	21 100	46 510
		42.0	137' 10"	19 800	19 800	43 650	19 800	43 650
		44.0	144' 4"	18 400	18 400	40 560	18 400	40 560
		46.0	150' 11"	17 200	17 200	37 910	17 200	37 910
		48.0	157' 6"	16 200	16 200	35 710	16 200	35 710
		50.0	164' 1"	15 200	15 200	33 500	15 200	33 500
		52.0	170' 7"	14 300	14 300	31 520	14 300	31 520
		54.0	177' 2"	13 400	13 400	29 540	13 400	29 540
		56.0	183' 9"	12 600	12 600	27 770	12 600	27 770
		58.0	190' 3"	11 900	11 900	26 230	11 900	26 230
		60.0	196' 10"	11 300	11 300	24 910	11 300	24 910
		62.0	203' 5"	10 700	10 700	23 580	10 700	23 580
		64.0	210' 0"	10 100	10 100	22 260	10 100	22 260
		66.0	216' 6"	9 600	9 600	21 160	9 600	21 160
		68.0	223' 1"	9 100	9 100	20 060	9 100	20 060
		70.0	229' 8"	8 600	8 600	18 950	8 600	18 950
		72.0	236' 3"	8 200	8 200	18 070	8 200	18 070
		74.0	242' 9"	7 800	7 800	17 190	7 800	17 190
		76.0	249' 4"	7 400	7 400	16 310	7 400	16 310
		78.0	255' 11"	7 000	7 000	15 430	7 000	15 430
		80.0	262' 6"	6 700	6 700	14 770	6 700	14 770
		82.0	269' 0"	6 300	6 300	13 880	6 300	13 880

Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb
39.0 (127'11")	96.0 (315'0")	20.0	65' 7"	22 800	19 200	42 320	22 800	50 260
		22.0	72' 2"	22 800	19 200	42 320	22 800	50 260
		24.0	78' 9"	22 800	19 200	42 320	22 800	50 260
		26.0	85' 4"	22 800	19 200	42 320	22 800	50 260
		28.0	91'10"	22 800	19 200	42 320	22 800	50 260
		30.0	98' 5"	22 800	19 200	42 320	22 800	50 260
		32.0	105' 0"	22 800	19 200	42 320	22 800	50 260
		34.0	111' 7"	22 800	19 200	42 320	22 800	50 260
		36.0	118' 1"	22 800	19 200	42 320	22 800	50 260
		38.0	124' 8"	22 700	19 200	42 320	22 700	50 040
		40.0	131' 3"	21 100	19 200	42 320	21 100	46 510
		42.0	137'10"	19 600	19 200	42 320	19 600	43 200
		44.0	144' 4"	18 300	18 300	40 340	18 300	40 340
		46.0	150'11"	17 100	17 100	37 690	17 100	37 690
		48.0	157' 6"	16 000	16 000	35 270	16 000	35 270
		50.0	164' 1"	15 000	15 000	33 060	15 000	33 060
		52.0	170' 7"	14 100	14 100	31 080	14 100	31 080
		54.0	177' 2"	13 300	13 300	29 320	13 300	29 320
		56.0	183' 9"	12 500	12 500	27 550	12 500	27 550
		58.0	190' 3"	11 800	11 800	26 010	11 800	26 010
		60.0	196'10"	11 200	11 200	24 690	11 200	24 690
		62.0	203' 5"	10 500	10 500	23 140	10 500	23 140
		64.0	210' 0"	10 000	10 000	22 040	10 000	22 040
		66.0	216' 6"	9 400	9 400	20 720	9 400	20 720
		68.0	223' 1"	8 900	8 900	19 620	8 900	19 620
		70.0	229' 8"	8 500	8 500	18 730	8 500	18 730
		72.0	236' 3"	8 000	8 000	17 630	8 000	17 630
		74.0	242' 9"	7 600	7 600	16 750	7 600	16 750
		76.0	249' 4"	7 200	7 200	15 870	7 200	15 870
		78.0	255'11"	6 900	6 900	15 210	6 900	15 210
		80.0	262' 6"	6 500	6 500	14 320	6 500	14 320
		82.0	269' 0"	6 200	6 200	13 660	6 200	13 660
	84.0	275' 7"	5 800	5 800	12 780	5 800	12 780	
	99.0 (324'10")	20.0	65' 7"	21 100	17 500	38 580	21 100	46 510
		22.0	72' 2"	21 100	17 500	38 580	21 100	46 510
		24.0	78' 9"	21 100	17 500	38 580	21 100	46 510
		26.0	85' 4"	21 100	17 500	38 580	21 100	46 510
		28.0	91'10"	21 100	17 500	38 580	21 100	46 510
		30.0	98' 5"	21 100	17 500	38 580	21 100	46 510
		32.0	105' 0"	21 100	17 500	38 580	21 100	46 510
		34.0	111' 7"	21 100	17 500	38 580	21 100	46 510
		36.0	118' 1"	21 100	17 500	38 580	21 100	46 510
		38.0	124' 8"	21 100	17 500	38 580	21 100	46 510
		40.0	131' 3"	20 900	17 500	38 580	20 900	46 070
		42.0	137'10"	19 400	17 500	38 580	19 400	42 760
		44.0	144' 4"	18 100	17 500	38 580	18 100	39 900
		46.0	150'11"	16 900	16 900	37 250	16 900	37 250
		48.0	157' 6"	15 800	15 800	34 830	15 800	34 830
50.0		164' 1"	14 800	14 800	32 620	14 800	32 620	
52.0		170' 7"	13 900	13 900	30 640	13 900	30 640	
54.0		177' 2"	13 100	13 100	28 880	13 100	28 880	
56.0		183' 9"	12 300	12 300	27 110	12 300	27 110	
58.0		190' 3"	11 600	11 600	25 570	11 600	25 570	
60.0		196'10"	10 900	10 900	24 020	10 900	24 020	
62.0		203' 5"	10 300	10 300	22 700	10 300	22 700	
64.0		210' 0"	9 700	9 700	21 380	9 700	21 380	
66.0		216' 6"	9 200	9 200	20 280	9 200	20 280	
68.0	223' 1"	8 700	8 700	19 170	8 700	19 170		
70.0	229' 8"	8 200	8 200	18 070	8 200	18 070		
72.0	236' 3"	7 800	7 800	17 190	7 800	17 190		
74.0	242' 9"	7 400	7 400	16 310	7 400	16 310		
76.0	249' 4"	7 000	7 000	15 430	7 000	15 430		
78.0	255'11"	6 600	6 600	14 550	6 600	14 550		
80.0	262' 6"	6 200	6 200	13 660	6 200	13 660		
82.0	269' 0"	5 800	5 800	12 780	5 800	12 780		
84.0	275' 7"	5 400	5 400	11 900	5 400	11 900		
86.0	282' 2"	5 100	5 100	11 240	5 100	11 240		



Series 2

Tubular Chord Crane Boom in 360° Working Area

Heavy-duty Service

Mast (CB) length	Boom length	Working radius		Rated load					
				JIS rating		BS rating		PCSA rating	
				kg	kg	kg	kg	kg	kg
m (ft in)	m (ft in)	m	ft in	kg	kg	kg	kg	kg	kg
24.0 (78'9")	36.0 (118'1")	8.1	26' 7"	180 000	180 000	396 800	180 000	396 800	180 000
		9.0	29' 6"	170 000	170 000	374 700	170 000	374 700	170 000
		10.0	32' 10"	160 000	160 000	352 700	160 000	352 700	160 000
		12.0	39' 4"	133 000	133 000	293 200	133 000	293 200	133 000
		14.0	45' 11"	107 700	107 700	237 400	107 700	237 400	107 700
		16.0	52' 6"	90 300	90 300	199 000	90 300	199 000	90 300
		18.0	59' 1"	77 400	77 400	170 600	77 400	170 600	77 400
		20.0	65' 7"	67 700	67 700	149 200	67 700	149 200	67 700
		22.0	72' 2"	60 000	60 000	132 200	60 000	132 200	60 000
		24.0	78' 9"	53 700	53 700	118 300	53 700	118 300	53 700
		26.0	85' 4"	48 600	48 600	107 100	48 600	107 100	48 600
		28.0	91' 10"	44 400	44 400	97 880	44 400	97 880	44 400
24.0 (78'9")	39.0 (127'11")	30.0	98' 5"	40 800	40 800	89 940	40 800	89 940	40 800
		32.0	105' 0"	37 700	37 700	83 110	37 700	83 110	37 700
		34.0	111' 7"	34 600	34 600	76 280	34 600	76 280	34 600
		10.0	32' 10"	169 200	169 200	373 000	169 200	373 000	169 200
		12.0	39' 4"	160 000	160 000	352 700	160 000	352 700	160 000
		14.0	45' 11"	132 700	132 700	292 500	132 700	292 500	132 700
		16.0	52' 6"	107 400	107 400	236 700	107 400	236 700	107 400
		18.0	59' 1"	89 900	89 900	198 100	89 900	198 100	89 900
		20.0	65' 7"	77 100	77 100	169 900	77 100	169 900	77 100
		22.0	72' 2"	67 300	67 300	148 300	67 300	148 300	67 300
		24.0	78' 9"	59 600	59 600	131 300	59 600	131 300	59 600
		26.0	85' 4"	53 400	53 400	117 700	53 400	117 700	53 400
24.0 (78'9")	42.0 (137'10")	28.0	85' 4"	48 300	48 300	106 400	48 300	106 400	48 300
		30.0	91' 10"	44 000	44 000	97 000	44 000	97 000	44 000
		32.0	98' 5"	40 300	40 300	88 840	40 300	88 840	40 300
		34.0	105' 0"	37 200	37 200	82 010	37 200	82 010	37 200
		36.0	111' 7"	34 600	34 600	76 280	34 600	76 280	34 600
		10.0	32' 10"	150 000	150 000	330 600	150 000	330 600	150 000
		12.0	39' 4"	132 500	132 500	292 100	132 500	292 100	132 500
		14.0	45' 11"	107 200	107 200	236 300	107 200	236 300	107 200
		16.0	52' 6"	89 700	89 700	197 700	89 700	197 700	89 700
		18.0	59' 1"	76 900	76 900	169 500	76 900	169 500	76 900
		20.0	65' 7"	67 100	67 100	147 900	67 100	147 900	67 100
		22.0	72' 2"	59 400	59 400	130 900	59 400	130 900	59 400
24.0 (78'9")	45.0 (147'8")	24.0	78' 9"	53 100	53 100	117 000	53 100	117 000	53 100
		26.0	85' 4"	48 000	48 000	105 800	48 000	105 800	48 000
		28.0	91' 10"	43 700	43 700	96 340	43 700	96 340	43 700
		30.0	98' 5"	40 000	40 000	88 180	40 000	88 180	40 000
		32.0	105' 0"	36 900	36 900	81 350	36 900	81 350	36 900
		34.0	111' 7"	34 200	34 200	75 390	34 200	75 390	34 200
		36.0	118' 1"	31 900	31 900	70 320	31 900	70 320	31 900
		38.0	124' 8"	29 800	29 800	65 690	29 800	65 690	29 800
		10.0	32' 10"	141 700	141 700	312 300	141 700	312 300	141 700
		12.0	39' 4"	132 500	132 500	292 100	132 500	292 100	132 500
		14.0	45' 11"	107 200	107 200	236 300	107 200	236 300	107 200
		16.0	52' 6"	89 600	89 600	197 500	89 600	197 500	89 600
24.0 (78'9")	48.0 (157'6")	18.0	59' 1"	76 800	76 800	169 300	76 800	169 300	76 800
		20.0	65' 7"	67 000	67 000	147 700	67 000	147 700	67 000
		22.0	72' 2"	59 300	59 300	130 700	59 300	130 700	59 300
		24.0	78' 9"	53 000	53 000	116 800	53 000	116 800	53 000
		26.0	85' 4"	47 800	47 800	105 300	47 800	105 300	47 800
		28.0	91' 10"	43 500	43 500	95 900	43 500	95 900	43 500
		30.0	98' 5"	39 900	39 900	87 960	39 900	87 960	39 900
		32.0	105' 0"	36 700	36 700	80 900	36 700	80 900	36 700
		34.0	111' 7"	34 000	34 000	74 950	34 000	74 950	34 000
		36.0	118' 1"	31 600	31 600	69 660	31 600	69 660	31 600
		38.0	124' 8"	29 500	29 500	65 030	29 500	65 030	29 500
		40.0	131' 3"	27 700	27 700	61 060	27 700	61 060	27 700

Mast (CB) length	Boom length	Working radius		Rated load					
				JIS rating		BS rating		PCSA rating	
				kg	kg	kg	kg	kg	kg
m (ft in)	m (ft in)	m	ft in	kg	kg	kg	kg	kg	kg
30.0 (98'5")	51.0 (167'4")	12.0	39' 4"	125 000	125 000	275 500	125 000	275 500	125 000
		14.0	45' 11"	107 200	107 200	236 300	107 200	236 300	107 200
		16.0	52' 6"	89 600	89 600	197 500	89 600	197 500	89 600
		18.0	59' 1"	76 700	76 700	169 000	76 700	169 000	76 700
		20.0	65' 7"	66 800	66 800	147 200	66 800	147 200	66 800
		22.0	72' 2"	59 000	59 000	130 000	59 000	130 000	59 000
		24.0	78' 9"	52 700	52 700	116 100	52 700	116 100	52 700
		26.0	85' 4"	47 500	47 500	104 700	47 500	104 700	47 500
		28.0	91' 10"	43 200	43 200	95 230	43 200	95 230	43 200
		30.0	98' 5"	39 500	39 500	87 080	39 500	87 080	39 500
		32.0	105' 0"	36 300	36 300	80 020	36 300	80 020	36 300
		34.0	111' 7"	33 500	33 500	73 850	33 500	73 850	33 500
30.0 (98'5")	54.0 (177'2")	36.0	118' 1"	31 100	31 100	68 560	31 100	68 560	31 100
		38.0	124' 8"	29 000	29 000	63 930	29 000	63 930	29 000
		40.0	131' 3"	27 100	27 100	59 740	27 100	59 740	27 100
		42.0	137' 10"	25 400	25 400	55 990	25 400	55 990	25 400
		44.0	144' 4"	23 900	23 900	52 690	23 900	52 690	23 900
		12.0	39' 4"	117 100	117 100	258 100	117 100	258 100	117 100
		14.0	45' 11"	107 100	107 100	236 100	107 100	236 100	107 100
		16.0	52' 6"	89 500	89 500	197 300	89 500	197 300	89 500
		18.0	59' 1"	76 500	76 500	168 600	76 500	168 600	76 500
		20.0	65' 7"	66 700	66 700	147 000	66 700	147 000	66 700
		22.0	72' 2"	58 900	58 900	129 800	58 900	129 800	58 900
		24.0	78' 9"	52 600	52 600	115 900	52 600	115 900	52 600
30.0 (98'5")	57.0 (187'0")	26.0	85' 4"	47 400	47 400	104 400	47 400	104 400	47 400
		28.0	91' 10"	43 000	43 000	94 790	43 000	94 790	43 000
		30.0	98' 5"	39 300	39 300	86 640	39 300	86 640	39 300
		32.0	105' 0"	36 100	36 100	79 580	36 100	79 580	36 100
		34.0	111' 7"	33 300	33 300	73 410	33 300	73 410	33 300
		36.0	118' 1"	30 900	30 900	68 120	30 900	68 120	30 900
		38.0	124' 8"	28 800	28 800	63 490	28 800	63 490	28 800
		40.0	131' 3"	26 900	26 900	59 300	26 900	59 300	26 900
		42.0	137' 10"	25 200	25 200	55 550	25 200	55 550	25 200
		44.0	144' 4"	23 700	23 700	52 240	23 700	52 240	23 700
		46.0	150' 11"	22 300	22 300	49 160	22 300	49 160	22 300
		48.0	157' 6"	21 100	21 100	46 510	21 100	46 510	21 100
30.0 (98'5")	60.0 (196'10")	12.0	39' 4"	108 800	108 800	239 800	108 800	239 800	108 800
		14.0	45' 11"	107 000	107 000	235 800	107 000	235 800	107 000
		16.0	52' 6"	89 400	89 400	197 000	89 400	197 000	89 400
		18.0	59' 1"	76 400	76 400	168 400	76 400	168 400	76 400
		20.0	65' 7"	66 500	66 500	146 600	66 500	146 600	66 500
		22.0	72' 2"	58 700	58 700	129 400	58 700	129 400	58



Light-duty Service

Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
		m (ft in)	m (ft in)	m	ft in	kg	kg	lb
24.0 (78'9")	39.0 (127'11")	9.0	29' 6"	100 000	100 000	220 400	100 000	220 400
		10.0	32' 10"	100 000	100 000	220 400	100 000	220 400
		12.0	39' 4"	100 000	100 000	220 400	100 000	220 400
		14.0	45' 11"	100 000	100 000	220 400	100 000	220 400
		16.0	52' 6"	91 400	91 400	201 500	91 400	201 400
		18.0	59' 1"	78 600	78 600	173 200	78 600	173 200
		20.0	65' 7"	68 800	68 800	151 600	68 800	151 600
		22.0	72' 2"	61 100	61 100	134 700	61 100	134 700
		24.0	78' 9"	54 800	54 800	120 800	54 800	120 800
		26.0	85' 4"	49 600	49 600	109 300	49 600	109 300
		28.0	91' 10"	45 300	45 300	99 860	45 300	99 860
		30.0	98' 5"	41 600	41 600	91 710	41 600	91 710
	32.0	105' 0"	38 500	38 500	84 870	38 500	84 870	
	34.0	111' 7"	35 800	35 800	78 920	35 800	78 920	
	42.0 (137'10")	10.0	32' 10"	100 000	100 000	220 400	100 000	220 400
		12.0	39' 4"	100 000	100 000	220 400	100 000	220 400
		14.0	45' 11"	100 000	100 000	220 400	100 000	220 400
		16.0	52' 6"	91 200	91 200	201 000	91 200	201 000
		18.0	59' 1"	78 300	78 300	172 600	78 300	172 600
		20.0	65' 7"	68 500	68 500	151 000	68 500	151 000
		22.0	72' 2"	60 800	60 800	134 000	60 800	134 000
		24.0	78' 9"	54 500	54 500	120 100	54 500	120 100
		26.0	85' 4"	49 400	49 400	108 900	49 400	108 900
		28.0	91' 10"	45 000	45 000	99 200	45 000	99 200
		30.0	98' 5"	41 400	41 400	91 260	41 400	91 260
		32.0	105' 0"	38 200	38 200	84 210	38 200	84 210
	34.0	111' 7"	35 500	35 500	78 260	35 500	78 260	
	36.0	118' 1"	33 100	33 100	72 970	33 100	72 970	
	38.0	124' 8"	31 000	31 000	68 340	31 000	68 340	
	45.0 (147'8")	10.0	32' 10"	100 000	100 000	220 400	100 000	220 400
		12.0	39' 4"	100 000	100 000	220 400	100 000	220 400
		14.0	45' 11"	100 000	100 000	220 400	100 000	220 400
		16.0	52' 6"	90 800	90 800	200 100	90 800	200 100
		18.0	59' 1"	78 000	78 000	171 900	78 000	171 900
		20.0	65' 7"	68 200	68 200	150 300	68 200	150 300
		22.0	72' 2"	60 400	60 400	133 100	60 400	133 100
24.0		78' 9"	54 200	54 200	119 400	54 200	119 400	
26.0		85' 4"	49 000	49 000	108 000	49 000	108 000	
28.0		91' 10"	44 700	44 700	98 540	44 700	98 540	
30.0		98' 5"	41 000	41 000	90 380	41 000	90 380	
32.0		105' 0"	37 800	37 800	83 330	37 800	83 330	
34.0	111' 7"	35 100	35 100	77 380	35 100	77 380		
36.0	118' 1"	32 700	32 700	72 080	32 700	72 080		
38.0	124' 8"	30 500	30 500	67 230	30 500	67 230		
40.0	131' 3"	28 700	28 700	63 270	28 700	63 270		
48.0 (157'6")	12.0	39' 4"	100 000	100 000	220 400	100 000	220 400	
	14.0	45' 11"	100 000	100 000	220 400	100 000	220 400	
	16.0	52' 6"	90 600	90 600	199 700	90 600	199 700	
	18.0	59' 1"	77 700	77 700	171 200	77 700	171 200	
	20.0	65' 7"	67 900	67 900	149 600	67 900	149 600	
	22.0	72' 2"	60 100	60 100	132 400	60 100	132 400	
	24.0	78' 9"	53 900	53 900	118 800	53 900	118 800	
	26.0	85' 4"	48 700	48 700	107 300	48 700	107 300	
	28.0	91' 10"	44 400	44 400	97 880	44 400	97 880	
	30.0	98' 5"	40 700	40 700	89 720	40 700	89 720	
	32.0	105' 0"	37 500	37 500	82 670	37 500	82 670	
	34.0	111' 7"	34 800	34 800	76 710	34 800	76 710	
36.0	118' 1"	32 300	32 300	71 200	32 300	71 200		
38.0	124' 8"	30 200	30 200	66 570	30 200	66 570		
40.0	131' 3"	28 300	28 300	62 380	28 300	62 380		
42.0	137' 10"	26 700	26 700	58 860	26 700	58 860		
51.0 (167'4")	12.0	39' 4"	100 000	100 000	220 400	100 000	220 400	
	14.0	45' 11"	100 000	100 000	220 400	100 000	220 400	
	16.0	52' 6"	90 800	90 800	200 100	90 800	200 100	
	18.0	59' 1"	77 900	77 900	171 700	77 900	171 700	
	20.0	65' 7"	68 000	68 000	149 900	68 000	149 900	
	22.0	72' 2"	60 200	60 200	132 700	60 200	132 700	
	24.0	78' 9"	53 900	53 900	118 800	53 900	118 800	
	26.0	85' 4"	48 700	48 700	107 300	48 700	107 300	
	28.0	91' 10"	44 400	44 400	97 880	44 400	97 880	
	30.0	98' 5"	40 700	40 700	89 720	40 700	89 720	
	32.0	105' 0"	37 500	37 500	82 670	37 500	82 670	
	34.0	111' 7"	34 700	34 700	76 490	34 700	76 490	
36.0	118' 1"	32 300	32 300	71 200	32 300	71 200		
38.0	124' 8"	30 100	30 100	66 350	30 100	66 350		
40.0	131' 3"	28 200	28 200	62 160	28 200	62 160		
42.0	137' 10"	26 500	26 500	58 420	26 500	58 420		
44.0	144' 4"	25 000	25 000	55 110	25 000	55 110		
54.0 (177'2")	12.0	39' 4"	100 000	100 000	220 400	100 000	220 400	
	14.0	45' 11"	100 000	100 000	220 400	100 000	220 400	
	16.0	52' 6"	90 500	90 500	199 500	90 500	199 500	
	18.0	59' 1"	77 500	77 500	170 800	77 500	170 800	
	20.0	65' 7"	67 600	67 600	149 000	67 600	149 000	
	22.0	72' 2"	59 800	59 800	131 800	59 800	131 800	
	24.0	78' 9"	53 500	53 500	117 900	53 500	117 900	
	26.0	85' 4"	48 300	48 300	106 400	48 300	106 400	
	28.0	91' 10"	44 000	44 000	97 000	44 000	97 000	
	30.0	98' 5"	40 300	40 300	88 840	40 300	88 840	
	32.0	105' 0"	37 100	37 100	81 790	37 100	81 790	
	34.0	111' 7"	34 300	34 300	75 610	34 300	75 610	
36.0	118' 1"	31 800	31 800	70 100	31 800	70 100		
38.0	124' 8"	29 700	29 700	65 470	29 700	65 470		
40.0	131' 3"	27 800	27 800	61 280	27 800	61 280		
42.0	137' 10"	26 100	26 100	57 530	26 100	57 530		
44.0	144' 4"	24 600	24 600	54 230	24 600	54 230		
46.0	150' 11"	23 200	23 200	51 140	23 200	51 140		
48.0	157' 6"	22 000	22 000	48 500	22 000	48 500		



Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
				kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in					
39.0 (127'11")	69.0 (226'5")	14.0	45'11"	86 900	86 900	191 500	86 900	191 500
		16.0	52' 6"	86 900	86 900	191 500	86 900	191 500
		18.0	59' 1"	77 100	77 100	169 900	77 100	169 900
		20.0	65' 7"	67 200	67 200	148 100	67 200	148 100
		22.0	72' 2"	59 300	59 300	130 700	59 300	130 700
		24.0	78' 9"	52 900	52 900	116 600	52 900	116 600
		26.0	85' 4"	47 600	47 600	104 900	47 600	104 900
		28.0	91'10"	43 200	43 200	95 230	43 200	95 230
		30.0	98' 5"	39 500	39 500	87 080	39 500	87 080
		32.0	105' 0"	36 200	36 200	79 800	36 200	79 800
		34.0	111' 7"	33 400	33 400	73 630	33 400	73 630
		36.0	118' 1"	30 900	30 900	68 120	30 900	68 120
		38.0	124' 8"	28 800	28 800	63 490	28 800	63 490
		40.0	131' 3"	26 800	26 800	59 080	26 800	59 080
		42.0	137'10"	25 100	25 100	55 330	25 100	55 330
		44.0	144' 4"	23 500	23 500	51 800	23 500	51 800
		46.0	150'11"	22 100	22 100	48 720	22 100	48 720
		48.0	157' 6"	20 800	20 800	45 850	20 800	45 850
		50.0	164' 1"	19 700	19 700	43 430	19 700	43 430
		52.0	170' 7"	18 600	18 600	41 000	18 600	41 000
		54.0	177' 2"	17 600	17 600	38 800	17 600	38 800
		56.0	183' 9"	16 700	16 700	36 810	16 700	36 810
		58.0	190' 3"	15 900	15 900	35 050	15 900	35 050
		60.0	196'10"	15 100	15 100	33 280	15 100	33 280
	72.0 (236'3")	16.0	52' 6"	81 700	81 700	180 100	81 700	180 100
		18.0	59' 1"	76 900	76 900	169 500	76 900	169 500
		20.0	65' 7"	66 900	66 900	147 400	66 900	147 400
		22.0	72' 2"	59 000	59 000	130 000	59 000	130 000
		24.0	78' 9"	52 700	52 700	116 100	52 700	116 100
		26.0	85' 4"	47 400	47 400	104 400	47 400	104 400
		28.0	91'10"	43 000	43 000	94 790	43 000	94 790
		30.0	98' 5"	39 200	39 200	86 410	39 200	86 410
		32.0	105' 0"	36 000	36 000	79 360	36 000	79 360
		34.0	111' 7"	33 200	33 200	73 190	33 200	73 190
		36.0	118' 1"	30 700	30 700	67 680	30 700	67 680
		38.0	124' 8"	28 500	28 500	62 830	28 500	62 830
		40.0	131' 3"	26 600	26 600	58 640	26 600	58 640
		42.0	137'10"	24 800	24 800	54 670	24 800	54 670
		44.0	144' 4"	23 300	23 300	51 360	23 300	51 360
		46.0	150'11"	21 800	21 800	48 050	21 800	48 050
		48.0	157' 6"	20 600	20 600	45 410	20 600	45 410
		50.0	164' 1"	19 400	19 400	42 760	19 400	42 760
		52.0	170' 7"	18 300	18 300	40 340	18 300	40 340
		54.0	177' 2"	17 300	17 300	38 130	17 300	38 130
	75.0 (246'1")	56.0	183' 9"	16 400	16 400	36 150	16 400	36 150
		58.0	190' 3"	15 600	15 600	34 390	15 600	34 390
		60.0	196'10"	14 800	14 800	32 620	14 800	32 620
		62.0	203' 5"	14 100	14 100	31 080	14 100	31 080
		64.0	210' 0"	13 500	13 500	29 760	13 500	29 760
		16.0	52' 6"	76 700	76 700	169 000	76 700	169 000
		18.0	59' 1"	76 600	76 600	168 800	76 600	168 800
		20.0	65' 7"	67 000	67 000	147 700	67 000	147 700
		22.0	72' 2"	59 100	59 100	130 200	59 100	130 200
		24.0	78' 9"	52 700	52 700	116 100	52 700	116 100
		26.0	85' 4"	47 500	47 500	104 700	47 500	104 700
		28.0	91'10"	43 000	43 000	94 790	43 000	94 790
		30.0	98' 5"	39 300	39 300	86 640	39 300	86 640
		32.0	105' 0"	36 000	36 000	79 360	36 000	79 360
		34.0	111' 7"	33 200	33 200	73 190	33 200	73 190
		36.0	118' 1"	30 700	30 700	67 680	30 700	67 680
		38.0	124' 8"	28 500	28 500	62 830	28 500	62 830
		40.0	131' 3"	26 600	26 600	58 640	26 600	58 640
		42.0	137'10"	24 800	24 800	54 670	24 800	54 670
		44.0	144' 4"	23 300	23 300	51 360	23 300	51 360
		46.0	150'11"	21 900	21 900	48 280	21 900	48 280
		48.0	157' 6"	20 600	20 600	45 410	20 600	45 410
		50.0	164' 1"	19 400	19 400	42 760	19 400	42 760
		52.0	170' 7"	18 300	18 300	40 340	18 300	40 340
		54.0	177' 2"	17 300	17 300	38 130	17 300	38 130
		56.0	183' 9"	16 400	16 400	36 150	16 400	36 150
		58.0	190' 3"	15 600	15 600	34 390	15 600	34 390
		60.0	196'10"	14 800	14 800	32 620	14 800	32 620
		62.0	203' 5"	14 100	14 100	31 080	14 100	31 080
		64.0	210' 0"	13 400	13 400	29 540	13 400	29 540
		66.0	216' 6"	12 800	12 800	28 210	12 800	28 210

Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating	BS rating		PCSA rating	
				kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb
39.0 (127'11")	78.0 (255'11")	16.0	52' 6"	71 600	71 600	157 800	71 600	157 800
		18.0	59' 1"	71 600	71 600	157 800	71 600	157 800
		20.0	65' 7"	66 600	66 600	146 800	66 600	146 800
		22.0	72' 2"	58 800	58 800	129 600	58 800	129 600
		24.0	78' 9"	52 400	52 400	115 500	52 400	115 500
		26.0	85' 4"	47 100	47 100	103 800	47 100	103 800
		28.0	91'10"	42 700	42 700	94 130	42 700	94 130
		30.0	98' 5"	38 900	38 900	85 750	38 900	85 750
		32.0	105' 0"	35 700	35 700	78 700	35 700	78 700
		34.0	111' 7"	32 900	32 900	72 530	32 900	72 530
		36.0	118' 1"	30 400	30 400	67 010	30 400	67 010
		38.0	124' 8"	28 200	28 200	62 160	28 200	62 160
		40.0	131' 3"	26 200	26 200	57 760	26 200	57 760
		42.0	137'10"	24 500	24 500	54 010	24 500	54 010
		44.0	144' 4"	22 900	22 900	50 480	22 900	50 480
		46.0	150'11"	21 500	21 500	47 390	21 500	47 390
		48.0	157' 6"	20 200	20 200	44 530	20 200	44 530
		50.0	164' 1"	19 000	19 000	41 880	19 000	41 880
		52.0	170' 7"	17 900	17 900	39 460	17 900	39 460
		54.0	177' 2"	16 900	16 900	37 250	16 900	37 250
		56.0	183' 9"	16 000	16 000	35 270	16 000	35 270
		58.0	190' 3"	15 200	15 200	33 500	15 200	33 500
		60.0	196'10"	14 400	14 400	31 740	14 400	31 740
		62.0	203' 5"	13 700	13 700	30 200	13 700	30 200
		64.0	210' 0"	13 000	13 000	28 650	13 000	28 650
		66.0	216' 6"	12 400	12 400	27 330	12 400	27 330
		68.0	223' 1"	11 800	11 800	26 010	11 800	26 010
	81.0 (265'9")	16.0	52' 6"	67 200	67 200	148 100	67 200	148 100
		18.0	59' 1"	67 200	67 200	148 100	67 200	148 100
		20.0	65' 7"	66 400	66 400	146 300	66 400	146 300
		22.0	72' 2"	58 500	58 500	128 900	58 500	128 900
		24.0	78' 9"	52 100	52 100	114 800	52 100	114 800
		26.0	85' 4"	46 800	46 800	103 100	46 800	103 100
		28.0	91'10"	42 400	42 400	93 470	42 400	93 470
		30.0	98' 5"	38 700	38 700	85 310	38 700	85 310
		32.0	105' 0"	35 400	35 400	78 040	35 400	78 040
		34.0	111' 7"	32 600	32 600	71 860	32 600	71 860
		36.0	118' 1"	30 100	30 100	66 350	30 100	66 350
		38.0	124' 8"	27 900	27 900	61 500	27 900	61 500
		40.0	131' 3"	26 000	26 000	57 310	26 000	57 310
		42.0	137'10"	24 200	24 200	53 350	24 200	53 350
		44.0	144' 4"	22 600	22 600	49 820	22 600	49 820
		46.0	150'11"	21 200	21 200	46 730	21 200	46 730
		48.0	157' 6"	19 900	19 900	43 870	19 900	43 870
		50.0	164' 1"	18 700	18 700	41 220	18 700	41 220
52.0		170' 7"	17 700	17 700	39 020	17 700	39 020	
54.0		177' 2"	16 700	16 700	36 810	16 700	36 810	
56.0		183' 9"	15 700	15 700	34 610	15 700	34 610	
58.0		190' 3"	14 900	14 900	32 840	14 900	32 840	
60.0		196'10"	14 100	14 100	31 080	14 100	31 080	
62.0		203' 5"	13 400	13 400	29 540	13 400	29 540	
64.0		210' 0"	12 700	12 700	27 990	12 700	27 990	
66.0		216' 6"	12 100	12 100	26 670	12 100	26 670	
68.0		223' 1"	11 500	11 500	25 350	11 500	25 350	
70.0		229' 8"	11 000	11 000	24 250	11 000	24 250	
84.0 (275'7")	18.0	59' 1"	62 500	62 500	137 700	62 500	137 700	
	20.0	65' 7"	62 500	62 500	137 700	62 500	137 700	
	22.0	72' 2"	58 500	58 500	128 900	58 500	128 900	
	24.0	78' 9"	52 100	52 100	114 800	52 100	114 800	
	26.0	85' 4"	46 800	46 800	103 100	46 800	103 100	
	28.0	91'10"	42 400	42 400	93 470	42 400	93 470	
	30.0	98' 5"	38 600	38 600	85 090	38 600	85 090	
	32.0	105' 0"	35 400	35 400	78 040	35 400	78 040	
	34.0	111' 7"	32 500	32 500	71 640	32 500	71 640	
	36.0	118' 1"	30 100	30 100	66 350	30 100	66 350	
	38.0	124' 8"	27 900	27 900	61 500	27 900	61 500	
	40.0	131' 3"	25 900	25 900	57 090	25 900	57 090	
	42.0	137'10"	24 200	24 200	53 350	24 200	53 350	
	44.0	144' 4"	22 600	22 600	49 820	22 600	49 820	
	46.0	150'11"	21 100	21 100	46 510	21 100	46 510	
	48.0	157' 6"	19 800	19 800	43 650	19 800	43 650	
	50.0	164' 1"	18 700	18 700	41 220	18 700	41 220	
	52.0	170' 7"	17 600	17 600	38 800	17 600	38 800	
	54.0	177' 2"	16 600	16 600	36 590	16 600	36 590	
	56.0	183' 9"	15 700	15 700	34 610	15 700	34 610	
	58.0	190' 3"	14 800	14 800	32 620	14 800	32 620	
	60.0	196'10"	14 000	14 000	30 860	14 000	30 860	
	62.0	203' 5"	13 300	13 300	29 320	13 300	29 320	
	64.0	210' 0"	12 600	12 600	27 770	12 600	27 770	
	66.0	216' 6"	12 000	12 000	26 450	12 000	26 450	
	68.0	223' 1"	11 400	11 400	25 130	11 400	25 130	
	70.0	229' 8"	10 800	10 800	23 800	10 800	23 800	
	72.0	236' 3"	10 300	10 300	22 700	10 300	22 700	
74.0	242' 9"	9 900	9 900	21 820	9 900	21 820		



Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating		BS rating		PCSA rating
				kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb
39.0 (127'11")	87.0 (285'5")	18.0	59' 1"	59 200	59 200	130 500	59 200	130 500
		20.0	65' 7"	59 200	59 200	130 500	59 200	130 500
		22.0	72' 2"	58 300	58 300	128 500	58 300	128 500
		24.0	78' 9"	51 900	51 900	114 400	51 900	114 400
		26.0	85' 4"	46 600	46 600	102 700	46 600	102 700
		28.0	91'10"	42 200	42 200	93 030	42 200	93 030
		30.0	98' 5"	38 400	38 400	84 650	38 400	84 650
		32.0	105' 0"	35 200	35 200	77 600	35 200	77 600
		34.0	111' 7"	32 400	32 400	71 420	32 400	71 420
		36.0	118' 1"	29 900	29 900	65 910	29 900	65 910
		38.0	124' 8"	27 700	27 700	61 060	27 700	61 060
		40.0	131' 3"	25 700	25 700	56 650	25 700	56 650
		42.0	137'10"	24 000	24 000	52 910	24 000	52 910
		44.0	144' 4"	22 400	22 400	49 380	22 400	49 380
		46.0	150'11"	21 000	21 000	46 290	21 000	46 290
		48.0	157' 6"	19 700	19 700	43 430	19 700	43 430
		50.0	164' 1"	18 500	18 500	40 780	18 500	40 780
		52.0	170' 7"	17 400	17 400	38 350	17 400	38 350
		54.0	177' 2"	16 400	16 400	36 150	16 400	36 150
		56.0	183' 9"	15 500	15 500	34 170	15 500	34 170
		58.0	190' 3"	14 600	14 600	32 180	14 600	32 180
		60.0	196'10"	13 800	13 800	30 420	13 800	30 420
		62.0	203' 5"	13 100	13 100	28 880	13 100	28 880
		64.0	210' 0"	12 400	12 400	27 330	12 400	27 330
		66.0	216' 6"	11 800	11 800	26 010	11 800	26 010
		68.0	223' 1"	11 200	11 200	24 690	11 200	24 690
		70.0	229' 8"	10 600	10 600	23 360	10 600	23 360
		72.0	236' 3"	10 100	10 100	22 260	10 100	22 260
		74.0	242' 9"	9 600	9 600	21 160	9 600	21 160
		76.0	249' 4"	9 200	9 200	20 280	9 200	20 280
39.0 (127'11")	90.0 (295'3")	18.0	59' 1"	55 500	55 500	121 200	55 500	122 300
		20.0	65' 7"	55 500	55 500	121 200	55 500	122 300
		22.0	72' 2"	55 500	55 500	121 200	55 500	122 300
		24.0	78' 9"	51 600	51 600	113 700	51 600	113 700
		26.0	85' 4"	46 300	46 300	102 000	46 300	102 000
		28.0	91'10"	41 900	41 900	92 370	41 900	92 370
		30.0	98' 5"	38 100	38 100	83 990	38 100	83 990
		32.0	105' 0"	34 900	34 900	76 940	34 900	76 940
		34.0	111' 7"	32 100	32 100	70 760	32 100	70 760
		36.0	118' 1"	29 600	29 600	65 250	29 600	65 250
		38.0	124' 8"	27 400	27 400	60 400	27 400	60 400
		40.0	131' 3"	25 400	25 400	55 990	25 400	55 990
		42.0	137'10"	23 700	23 700	52 240	23 700	52 240
		44.0	144' 4"	22 100	22 100	48 720	22 100	48 720
		46.0	150'11"	20 600	20 600	45 410	20 600	45 410
		48.0	157' 6"	19 300	19 300	42 540	19 300	42 540
		50.0	164' 1"	18 200	18 200	40 120	18 200	40 120
		52.0	170' 7"	17 100	17 100	37 690	17 100	37 690
		54.0	177' 2"	16 100	16 100	35 490	16 100	35 490
		56.0	183' 9"	15 100	15 100	33 280	15 100	33 280
		58.0	190' 3"	14 300	14 300	31 520	14 300	31 520
		60.0	196'10"	13 500	13 500	29 760	13 500	29 760
		62.0	203' 5"	12 800	12 800	28 210	12 800	28 210
		64.0	210' 0"	12 100	12 100	26 670	12 100	26 670
		66.0	216' 6"	11 400	11 400	25 130	11 400	25 130
		68.0	223' 1"	10 800	10 800	23 800	10 800	23 800
		70.0	229' 8"	10 300	10 300	22 700	10 300	22 700
		72.0	236' 3"	9 800	9 800	21 600	9 800	21 600
		74.0	242' 9"	9 300	9 300	20 500	9 300	20 500
		76.0	249' 4"	8 800	8 800	19 400	8 800	19 400
		78.0	255'11"	8 400	8 400	18 510	8 400	18 510
39.0 (127'11")	93.0 (305'1")	18.0	59' 1"	52 100	51 000	112 400	52 100	114 800
		20.0	65' 7"	52 100	51 000	112 400	52 100	114 800
		22.0	72' 2"	51 900	51 000	112 400	51 900	114 400
		24.0	78' 9"	50 400	50 400	111 100	50 400	111 100
		26.0	85' 4"	46 300	46 300	102 000	46 300	102 000
		28.0	91'10"	41 900	41 900	92 370	41 900	92 370
		30.0	98' 5"	38 100	38 100	83 990	38 100	83 990
		32.0	105' 0"	34 800	34 800	76 710	34 800	76 710
		34.0	111' 7"	32 000	32 000	70 540	32 000	70 540
		36.0	118' 1"	29 500	29 500	65 030	29 500	65 030
		38.0	124' 8"	27 300	27 300	60 180	27 300	60 180
		40.0	131' 3"	25 400	25 400	55 990	25 400	55 990
		42.0	137'10"	23 600	23 600	52 020	23 600	52 020
		44.0	144' 4"	22 000	22 000	48 500	22 000	48 500
		46.0	150'11"	20 600	20 600	45 410	20 600	45 410
		48.0	157' 6"	19 300	19 300	42 540	19 300	42 540
		50.0	164' 1"	18 100	18 100	39 900	18 100	39 900
		52.0	170' 7"	17 000	17 000	37 470	17 000	37 470
		54.0	177' 2"	16 000	16 000	35 270	16 000	35 270
		56.0	183' 9"	15 100	15 100	33 280	15 100	33 280
		58.0	190' 3"	14 200	14 200	31 300	14 200	31 300
		60.0	196'10"	13 400	13 400	29 540	13 400	29 540
		62.0	203' 5"	12 700	12 700	27 990	12 700	27 990
		64.0	210' 0"	12 000	12 000	26 450	12 000	26 450
		66.0	216' 6"	11 300	11 300	24 910	11 300	24 910
		68.0	223' 1"	10 700	10 700	23 580	10 700	23 580
		70.0	229' 8"	10 200	10 200	22 480	10 200	22 480
		72.0	236' 3"	9 600	9 600	21 160	9 600	21 160
		74.0	242' 9"	9 100	9 100	20 060	9 100	20 060
		76.0	249' 4"	8 700	8 700	19 170	8 700	19 170
		78.0	255'11"	8 200	8 200	18 070	8 200	18 070
		80.0	262' 6"	7 800	7 800	17 190	7 800	17 190
		82.0	269' 0"	7 300	7 300	16 090	7 300	16 090

Mast (CB) length	Boom length	Working radius		Rated load					
				JIS rating	BS rating		PCSA rating		
					kg	kg	lb	kg	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	kg	lb	
39.0 (127'11")	96.0 (315'0")	20.0	65' 7"	47 900	46 500	102 500	47 900	105 500	
		22.0	72' 2"	46 900	46 500	102 500	46 900	103 300	
		24.0	78' 9"	45 800	45 800	100 900	45 800	100 900	
		26.0	85' 4"	44 600	44 600	98 320	44 600	98 320	
		28.0	91'10"	41 600	41 600	91 710	41 600	91 710	
		30.0	98' 5"	37 900	37 900	83 550	37 900	83 550	
		32.0	105' 0"	34 600	34 600	76 280	34 600	76 270	
		34.0	111' 7"	31 800	31 800	70 100	31 800	70 100	
		36.0	118' 1"	29 300	29 300	64 590	29 300	64 590	
		38.0	124' 8"	27 100	27 100	59 740	27 100	59 740	
		40.0	131' 3"	25 100	25 100	55 330	25 100	55 330	
		42.0	137'10"	23 400	23 400	51 580	23 400	51 580	
		44.0	144' 4"	21 800	21 800	48 060	21 800	48 050	
		46.0	150'11"	20 300	20 300	44 750	20 300	44 750	
		48.0	157' 6"	19 000	19 000	41 880	19 000	41 880	
		50.0	164' 1"	17 800	17 800	39 240	17 800	39 240	
		52.0	170' 7"	16 700	16 700	36 810	16 700	36 810	
		54.0	177' 2"	15 700	15 700	34 610	15 700	34 610	
		56.0	183' 9"	14 800	14 800	32 620	14 800	32 620	
		58.0	190' 3"	13 900	13 900	30 640	13 900	30 640	
		60.0	196'10"	13 100	13 100	28 880	13 100	28 880	
		62.0	203' 5"	12 400	12 400	27 330	12 400	27 330	
		64.0	210' 0"	11 700	11 700	25 790	11 700	25 790	
		66.0	216' 6"	11 100	11 100	24 470	11 100	24 470	
		68.0	223' 1"	10 500	10 500	23 140	10 500	23 140	
		70.0	229' 8"	9 900	9 900	21 820	9 900	21 820	
	72.0	236' 3"	9 400	9 400	20 720	9 400	20 720		
	74.0	242' 9"	8 900	8 900	19 620	8 900	19 620		
	76.0	249' 4"	8 400	8 400	18 510	8 400	18 510		
	78.0	255'11"	7 900	7 900	17 410	7 900	17 410		
	80.0	262' 6"	7 400	7 400	16 310	7 400	16 310		
	82.0	269' 0"	6 900	6 900	15 210	6 900	15 210		
	84.0	275' 7"	6 500	6 500	14 330	6 500	14 320		
	99.0 (324'10")	99.0 (324'10")	20.0	65' 7"	44 900	43 300	95 460	44 900	98 980
			22.0	72' 2"	43 300	43 300	95 460	43 300	95 450
			24.0	78' 9"	42 200	42 200	93 030	42 200	93 030
			26.0	85' 4"	41 400	41 400	91 270	41 400	91 260
			28.0	91'10"	40 400	40 400	89 060	40 400	89 060
			30.0	98' 5"	37 700	37 700	83 110	37 700	83 110
			32.0	105' 0"	34 400	34 400	75 830	34 400	75 830
			34.0	111' 7"	31 600	31 600	69 660	31 600	69 660
			36.0	118' 1"	29 100	29 100	64 150	29 100	64 150
			38.0	124' 8"	26 900	26 900	59 300	26 900	59 300
			40.0	131' 3"	24 900	24 900	54 890	24 900	54 890
			42.0	137'10"	23 200	23 200	51 140	23 200	51 140
			44.0	144' 4"	21 600	21 600	47 610	21 600	47 610
			46.0	150'11"	20 100	20 100	44 310	20 100	44 310
			48.0	157' 6"	18 800	18 800	41 440	18 880	41 440
50.0			164' 1"	17 600	17 600	38 800	17 600	38 800	
52.0			170' 7"	16 500	16 500	36 370	16 500	36 370	
54.0			177' 2"	15 500	15 500	34 170	15 500	34 170	
56.0			183' 9"	14 600	14 600	32 180	14 600	32 180	
58.0			190' 3"	13 700	13 700	30 200	13 700	30 200	
60.0			196'10"	12 900	12 900	28 430	12 900	28 430	
62.0			203' 5"	12 200	12 200	26 890	12 200	26 890	
64.0			210' 0"	11 500	11 500	25 350	11 500	25 350	
66.0			216' 6"	10 900	10 900	24 030	10 900	24 020	
68.0			223' 1"	10 300	10 300	22 700	10 300	22 700	
70.0			229' 8"	9 700	9 700	21 380	9 700	21 380	
72.0	236' 3"	9 200	9 200	20 280	9 200	20 280			
74.0	242' 9"	8 700	8 700	19 180	8 700	19 170			
76.0	249' 4"	8 100	8 100	17 850	8 100	17 850			
78.0	255'11"	7 600	7 600	16 750	7 600	16 750			
80.0	262' 6"	7 100	7 100	15 650	7 100	15 650			
82.0	269' 0"	6 600	6 600	14 550	6 600	14 550			
84.0	275' 7"	6 200	6 200	13 660	6 200	13 660			
86.0	282' 2"	5 800	5 800	12 780	5 800	12 780			



Main Boom & Mast (CB) Construction

Series 1

Main Boom Construction

Mast (CB) length	Boom length	Lower boom 7.5 m (24'7")	Upper boom 7.5 m (24'7")	Upper boom 10.5 m (34'5")	Boom insert 3.0 m (9'10")	Boom insert 6.0 m (19'8")	Boom insert 9.0 m (29'6")	Boom insert 12.0 m (39'4")	Available hook	Number of rope reeving
Heavy-duty service	24.0 m (78'9")	36.0 m (118'1")	1	1	2	1	1		200 000 kg (440 900 lb) capacity hook	11
		39.0 m (127'11")	1	1	1	2	1			10
		42.0 m (137'10")	1	1	1	1	2			9
		45.0 m (147'8")	1	1	2	1	2			8
		48.0 m (157'6")	1	1	1	2	2			7
	30.0 m (98'5")	51.0 m (167'4")	1	1	1	1	3			7
		54.0 m (177'2")	1	1	2	1	3			7
		57.0 m (187'0")	1	1	1	2	3			6
		60.0 m (196'10")	1	1	1	1	4			5
Light-duty service	24.0 m (78'9")	39.0 m (127'11")	1		1	2	1	1	100 000 kg (220 400 lb) capacity hook	8
		42.0 m (137'10")	1		1	1	2	1		8
		45.0 m (147'8")	1		1	1	2			8
		48.0 m (157'6")	1		1	1	1	1		8
		51.0 m (167'4")	1		1	2	1	1		7
	30.0 m (98'5")	54.0 m (177'2")	1		1	2	1	1		7
		57.0 m (187'0")	1		1	1	2	1		6
		60.0 m (196'10")	1		1	1	1	2		5
	39.0 m (127'11")	63.0 m (206'8")	1		1	2	1	1		5
		66.0 m (216'6")	1		1	1	2	1		5
		69.0 m (226'5")	1		1	1	2	2		4
		72.0 m (236'3")	1		1	1	1	3		4
		75.0 m (246'1")	1		1	2	1	3		4
		78.0 m (255'11")	1		1	2	1	3		4
		81.0 m (265'9")	1		1	1	2	3		3
		84.0 m (275'7")	1		1	1	1	4		3
		87.0 m (285'5")	1		1	2	1	4		3
		90.0 m (295'3")	1		1	1	2	4		3
		93.0 m (305'1")	1		1	1	1	4		2
		96.0 m (315'0")	1		1	1	1	5		2
		99.0 m (324'10")	1		1	2	1	5		2

Mast (CB) Construction

Mast (CB) length	Lower mast (CB) 10.5 m (34'5")	Upper mast (CB) 10.5 m (34'5")	Mast (CB) insert 3.0 m (9'10")	Mast (CB) insert 6.0 m (19'8")	Mast (CB) insert 9.0 m (29'6")
24.0 m (78'9")	1	1	1		
30.0 m (98'5")	1	1	1	1	
39.0 m (127'11")	1	1	1	1	1



Series 2

Main Boom Construction

	Mast (CB) length	Boom length	Lower boom 7.5 m (24'7")	Taper lower boom insert 7.5 m (24'7")	Upper boom 7.5 m (24'7")	Upper boom 10.5 m (34'5")	Taper upper boom insert 7.5 m (24'7")	Boom insert 3.0 m (9'10")	Boom insert 6.0 m (19'8")	Boom insert 9.0 m (29'6")	Boom insert 12.0 m (39'4")	Available hook	Number of rope reeving
Heavy-duty service	24.0 m (78'9")	36.0 m (118'1")	1	1	1		1		1			200 000 kg (440 900 lb) capacity hook	16
		39.0 m (127'11")	1	1	1		1	1	1				14
		42.0 m (137'10")	1	1	1		1	2	1				12
		45.0 m (147'8")	1	1	1		1	1	2				12
		48.0 m (157'6")	1	1	1		1	1	1	1			11
	30.0 m (98'5")	51.0 m (167'4")	1	1	1		1	2	1	1			10
		54.0 m (177'2")	1	1	1		1	1	2	1			10
		57.0 m (187'0")	1	1	1		1	1	1	2			9
		60.0 m (196'10")	1	1	1		1	1	1	1	1		8
Light-duty service	24.0 m (78'9")	39.0 m (127'11")	1	1		1	1		1			100 000 kg (220 400 lb) capacity hook	8
		42.0 m (137'10")	1	1		1	1	1	1				8
		45.0 m (147'8")	1	1		1	1	2	1				8
		48.0 m (157'6")	1	1		1	1	1	2				8
	30.0 m (98'5")	51.0 m (167'4")	1	1		1	1	1	1	1			8
		54.0 m (177'2")	1	1		1	1	2	1	1			8
		57.0 m (187'0")	1	1		1	1	1	2	1			8
		60.0 m (196'10")	1	1		1	1	1	1	2			8
	39.0 m (127'11")	63.0 m (206'8")	1	1		1	1	1	1	1	1		8
		66.0 m (216'6")	1	1		1	1	2	1	1	1		8
		69.0 m (226'5")	1	1		1	1	1	2	1	1		7
		72.0 m (236'3")	1	1		1	1	1	1	2	1		7
		75.0 m (246'1")	1	1		1	1	1	1	1	2		7
		78.0 m (255'11")	1	1		1	1	2	1	1	2		6
		81.0 m (265'9")	1	1		1	1	1	2	1	2		6
		84.0 m (275'7")	1	1		1	1	1	1	2	2		5
		87.0 m (285'5")	1	1		1	1	1	1	1	3		5
		90.0 m (295'3")	1	1		1	1	2	1	1	3		5
		93.0 m (305'1")	1	1		1	1	1	2	1	3		5
		96.0 m (315'0")	1	1		1	1	1	1	2	3		4
		99.0 m (324'10")	1	1		1	1	1	1	1	4		4

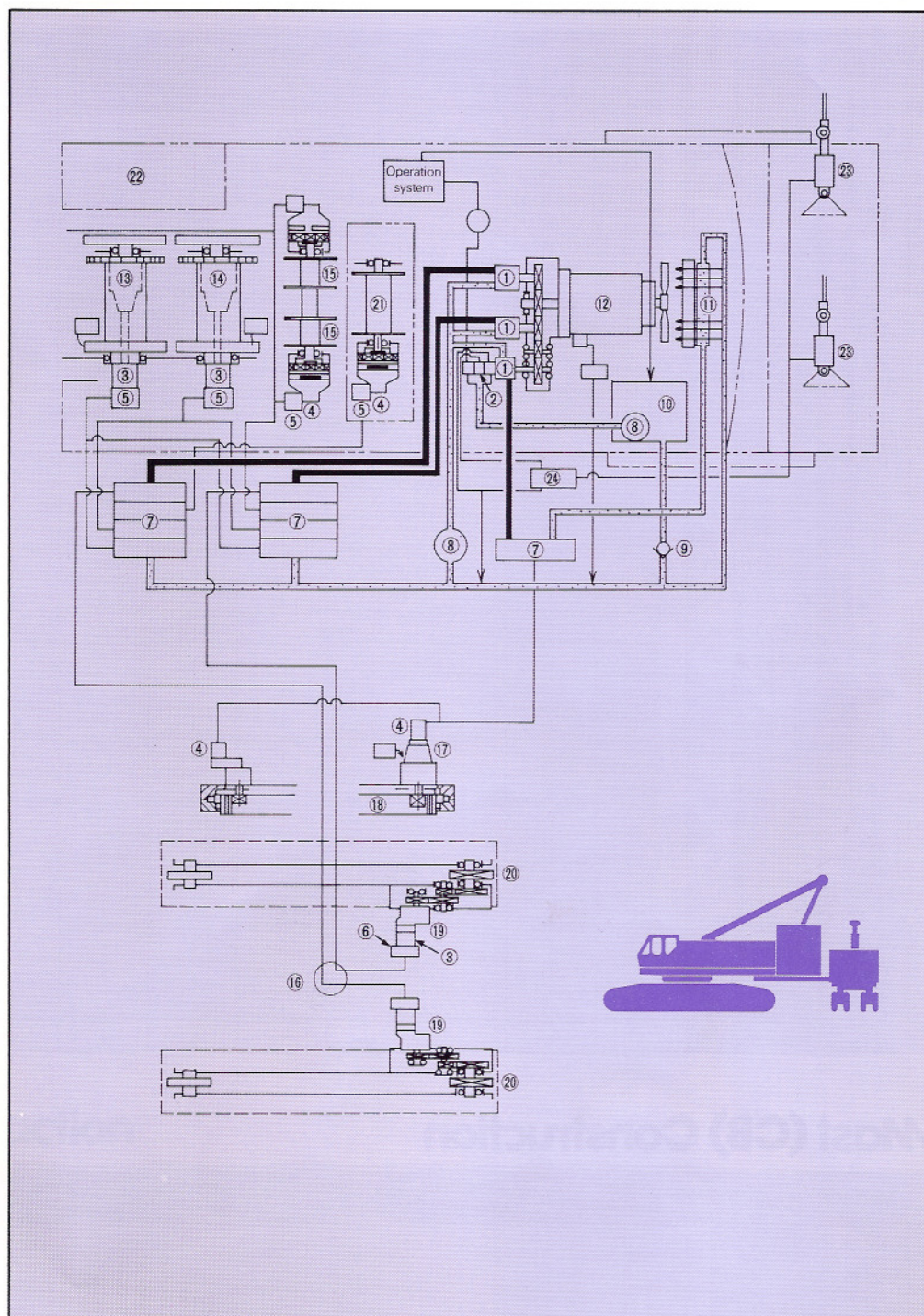
Mast (CB) Construction

Mast (CB) length	Lower mast (CB) 10.5 m (34'5")	Upper mast (CB) 10.5 m (34'5")	Mast (CB) insert 3.0 m (9'10")	Mast (CB) insert 6.0 m (19'8")	Mast (CB) insert 9.0 m (29'6")
24.0 m (78'9")	1	1	1		
30.0 m (98'5")	1	1	1	1	
39.0 m (127'11")	1	1	1	1	1



Power Transmission Mechanism and Hydraulic System

- 1 Variable displacement pump
- 2 Fixed displacement pump
- 3 2-speed variable displacement motor
- 4 Fixed displacement motor
- 5 Counterbalance valve
- 6 Brake valve
- 7 Control valve
- 8 Filter
- 9 Check valve
- 10 Hydraulic tank
- 11 Oil cooler
- 12 Engine
- 13 Main hoist drum
- 14 Boom (Auxiliary) hoist drum
- 15 Mast (CB) hoist drum
- 16 Center joint
- 17 Swing mechanism
- 18 Swing circle
- 19 Travel mechanism
- 20 Drive tumbler
- 21 Third drum (for tower use) (Optional)
- 22 Operator's cab
- 23 Raising/lowering hydraulic cylinder for tail weight
- 24 Valve





Specifications



SUPERSTRUCTURE



Engine

Model	ISUZU 12PB1
Type	Water-cooled, 4-cycle, V-type 12-cylinder, direct fuel injection type diesel engine
Rated horsepower	199 kW (270 PS) at 2 000 min ⁻¹ (DIN 6 270, Net)
Maximum torque	1 020 N·m (104 kgf·m, 752 lbf·ft) at 1 400 min ⁻¹ (1 400 rpm)
Piston displacement	16.8 l (1 030 cu in)
Fuel tank capacity	400 l (88.0 Imp. gal, 106 U.S. gal)
Electric system	24 V AC generating



Main and Boom (Auxiliary) Hoist Mechanism

Completely independent operation. Both main and boom (auxiliary) hoist drums are independently driven by high-torque variable piston motor through reduction gear. Load hoisting/lowering are done by normal/reverse rotation of motor. Smooth precise power lowering is made possible by the hydraulic brake. Main and auxiliary hoist levers give a choice of three speeds for hoisting/lowering. The low and high hoisting/lowering speeds are proportioned to the lever stroke; extra high speed is controlled by pushbutton switch with hoist lever, thus allowing easy matching to job conditions. Boom hoist lever gives a choice of two speeds for hoisting/lowering. High speed is controlled by pushbutton switch with hoist lever, thus allowing easy matching to job conditions.

Clutches Clutches are of the external contracting friction band type; main and auxiliary clutches are alike in size and type. Also, the clutches are of a spring-set/hydraulic-released type so that they do not disengage when engine stops.

Brakes External contracting friction band-type mechanical brakes, integrated with link lever, operate under normal load. For a larger load, a spring-type boost device is provided to ensure fatigue-free operation. Mechanical brake locks are equipped as standard. Furthermore, while in neutral position, the hoist lever is doubly secured in position by a hydraulic brake and an automatic brake. Boom hoist brake is automatically actuated when control lever is at neutral.

Drums Main and boom (auxiliary) hoist drums are of special alloy cast iron. Both hoist drums are mounted on the lifetime-lubricated anti-friction ball bearings. The front drum is for main hoisting and the rear drum for boom (auxiliary) hoisting. Drum pawl locks are provided for integral lock of drums. They are controllable from the operator's seat. They are driven by a hydraulic cylinder and controllable from the operator's seat. Furthermore, when the engine is turned off to temporarily stop work, these locks catch automatically for safety purposes.



Mast (CB) Hoist Mechanism

Completely independent operation. A drive shaft with spline-fitted twin drum is driven by high-torque piston motors through reduction gear. Hoisting/lowering are done by normal/reverse driving of the motor. Smooth, precise mast lowering is made possible by power lowering through the hydraulic brake. Both hydraulic brake and automatic brake offer positive and safe stopping of mast.

Mast (CB) Drum Brakes Spring set/hydraulic-released multiplate disc type. Brake is automatically actuated when control lever is at neutral position.

Drum Locks Drum pawl locks are driven by the hydraulic cylinder and controlled from the operator's seat. Furthermore, when the engine is turned off to temporarily stop work, these locks catch automatically for safety purposes.



Swing Mechanism

Completely independent operation. Driven by 2-high-torque piston motors through reduction gear. When used with counterbalancing crane specifications, two motors are used for swing. When using with ordinary crane specifications, the swing force is provided by one motor. Swing speeds are freely controllable within the 0 to maximum speed with single lever stroking.

Swing Parking Brake Friction-plate type brake is actuated by operating either the swing parking brake lever located at the right side of operator's seat or the switch on the swing lever.

Swing Lock Manually operated mechanical lock with a rod tip which is engaged in recess of undercartridge during transportation and when not working.

Swing Circle Three roller types are mounted on anti-friction bearing with heat-treated internal gear.



Revolving Frame

All steel welded construction, stress-relieved, precision-machined unit, especially designed for rigidity and strength.

Gantry Lowerable for transportation. Especially designed for rigidity and strength. Speedy, easy raising/lowering are possible with optional hydraulic cylinders.

Counterweight 7-piece, readily removable for weight reduction of machine for transportation.

Total weight 60 000 kg (132 000 lb)
 1 x 18 230 kg (40 200 lb)
 3 x 6 960 kg (15 300 lb)
 3 x 6 960 kg (15 300 lb)

Tail weight (with carrier)

Total weight •Series 1
 70 000 kg (154 300 lb)
 •Series 2
 76 000 kg (167 600 lb)
 Tires 14:00-24-20PR (Double x 4)



Front-end Attachments

Tubular Chord Boom Lattice construction, high tensile strength steel tubular chord.

Series 1

- Basic boom 6-pieces, total length 36.0 m (118'11");
 (Heavy-duty service) upper section 7.5 m (24'7"), lower
 section 7.5 m (24'7"), 3.0 m (9'10") x
 2, 6.0 m (19'8") and 9.0 m (29'6")
 boom insert.
 Maximum rated load . . . 130 000 kg
 (286 600 lb).
- Boom point Offset boom point, 9 sheaves mounted
 on anti-friction bearings on boom
 point.
- Sheave P.C.D. 560 mm (22.0")
- Basic boom 6-pieces, total length 39.0 m (127'11");
 (Light-duty service) upper section 10.5 m (34'5"), lower
 section 7.5 m (24'7"), 3.0 m (9'10") x
 2, 6.0 m (19'8") and 9.0 m (29'6")
 boom insert.
 Maximum rated load . . . 100 000 kg
 (220 400 lb).
- Boom point Offset boom point, 5 sheaves mounted
 on anti-friction bearings on boom point.
- Sheave P.C.D. 560 mm (22.0")
- Boom insert 3.0 m (9'10"), 6.0 m (19'8"), 9.0 m
 (29'6") and 12.0 m (39'4") (Light-
 duty service only) long 2 100 mm
 (82.7") wide by 2 100 mm (82.7")
 deep at connection.

- Connection type Pin-connected.
- Boom backstop Dual-rail, tubular construction
- Boom hoist bridle . . . Equipped with 4 sheaves [450 mm
 (17.7") P.C.D.].
- Basic mast (CB) 3-pieces, total length 24.0 m (78'9");
 upper section 10.5 m (34'5"), lower
 section 10.5 m (34'5"), 3.0 m (9'10")
 mast (CB) insert.
- Mast (CB) hoist bridle . Equipped with 9 sheaves [360 mm
 (14.2") P.C.D.].
- Mast (CB) insert 6.0 m (19'8") and 9.0 m (29'6") long
 2 100 mm (82.7") wide by 2 100 mm
 (82.7") deep at connection.
- Jib, Auxiliary Jib not available
 and Intermediate
 boom suspension rope

Series 2

- Basic boom 5-pieces, total length 36.0 m (118'11");
 (Heavy-duty service) upper section 7.5 m (24'7"), taper
 upper boom insert 7.5 m (24'7"),
 lower section 7.5 m (24'7"), taper
 lower boom insert 7.5 m (24'7") and
 6.0 m (19'8") boom insert.
 Maximum rated load . . . 180 000 kg
 (396 800 lb).
- Boom point Offset boom point, 9 sheaves mounted
 on anti-friction bearings on boom
 point.
- Sheave P.C.D. 560 mm (22.0")
- Basic boom 5-pieces, total length 39.0 m (127'11");
 (Light-duty service) upper section 10.5 m (34'5"), taper
 upper boom insert 7.5 m (24'7"),
 lower section 7.5 m (24'7"), taper
 lower boom insert 7.5 m (24'7") and
 6.0 m (19'8") boom insert.
 Maximum rated load . . . 100 000 kg
 (220 400 lb).
- Boom point Offset boom point, 5 sheaves mounted
 on anti-friction bearings on boom
 point.
- Sheave P.C.D. 560 mm (22.0")
- Boom insert Taper upper 7.5 m (24'7"), taper
 lower 7.5 m (24'7"), 3.0 m (9'10"),
 6.0 m (19'8"), 9.0 m (29'6") and
 12.0 m (39'4") long.
 2 600 mm (102.4") wide by, 2 100 mm
 (82.7") deep at connection.
- Connection type Pin connected.
- Boom backstop Dual-rail, tubular construction
- Boom hoist bridle . . . Equipped with 4 sheaves [450 mm
 (17.7") P.C.D.].
- Basic mast (CB) 3-pieces, total length 24.0 m (78'9");
 upper section 10.5 m (34'5"), lower
 section 10.5 m (34'5"), 3.0 m (9'10")
 mast (CB) insert.
- Mast (CB) hoist bridle . Equipped with 9 sheaves [360 mm
 (14.2") P.C.D.].



Mast (CB) insert 6.0 m (19'8") and 9.0 m (29'6") long
2 100 mm (82.7") wide by 2 100 mm
(82.7") deep at connection.

Jib, Auxiliary Jib . . . not available.
and Intermediate
boom suspension rope



Operator's Cab

All-weather, well-ventilated, all-round visibility, roomy operator's cab. The completely independent cab is insulated against noise and vibration. Sliding, fold-in front window swings up and stores in roof. Fully adjustable reclining seat — fore and aft/up and down.



UNDERCARRIAGE

Travel Mechanism Each track is directly driven by a high-torque piston motor through reduction gear without any clutches or drive chains. This mechanism allows counter-rotation of tracks for maximum maneuverability in close quarters. When travel lever is returned to neutral position, both hydraulic brake and spring-set/hydraulic-released multiplate disc brake are automatically actuated to effect reliable stopping.

Track Frame All-welded robust rolled steel, stress-relieved, box-section construction.

Side Frames All-welded robust rolled steel, stress-relieved, box-section construction.

Retractable Side Frame

Side Frame Removal Cylinder (Optional) Both right and left side frames can be speedily removed by side frame removal cylinder. And self-loading device allows the machine to load its basic machine onto a trailer through the use of its own hydraulic jack cylinders. Travel motor pipings are connected via self-seal couplings for quick disconnection.

Rollers and Tumblers All rollers and tumblers are sealed with floating seals, requiring no lubricating until overhaul. All shafts are made of alloy steel and induction hardened for maximum wear resistance.

Track Shoes Heat-treated alloy steel cast with induction-hardened roller path and driving lug. Shoes are connected by induction-hardened steel pins:

Shoe width 1 270 mm (50")

Track Tension Adjuster Track tension is adjusted by hydraulic jack at the front idler bearing block and by inserting proper shims.



HYDRAULIC SYSTEM

Three variable displacement piston pumps + 3-gear pump hydraulic system allows both independent and combined operations of all functions. Variable-displacement piston pumps not only adequately control operating speeds, but also utilize engine horsepower to maximum.

	Pump-1	Pump-2
Type of pump	Variable displacement pump	
Pressure setting	280 bar (280 kgf/cm ² , 3 980 psi)	
Oil flow	240 l/min (52.7 Imp. gpm, 63.3 U.S. gpm)	
Use	• Travel (right) • Main hoist (high) • Boom (Aux.) hoist (low) • Mast (CB) hoist	• Travel (left) • Main hoist (low) • Boom (Aux.) hoist (high) • Third drum

	Pump-3	Pumps-4, 5 and 6
Type of pump	Variable displacement pump	Gear pumps
Pressure setting	280 bar (280 kgf/cm ² , 3 980 psi)	*1 5 bar (5 kgf/cm ² , 71.1 psi) *2 175 bar (175 kgf/cm ² , 2 490 psi) *3 40/175 bar (40/175 kgf/cm ² , 569/2 490 psi)
Oil flow	210 l/min (46.2 Imp. gpm, 55.5 U.S. gpm)	*1 155 l/min (34.1 Imp. gpm, 41.0 U.S. gpm) *2 116 l/min (25.5 Imp. gpm, 30.6 U.S. gpm) *3 52.7 l/min (11.6 Imp. gpm, 13.9 U.S. gpm)
Use	• Swing	*1 Supply the Hyd. oil to suction line *2 For tail weight cylinder operation *3 • Remote-controlled hydraulic servo system • Optional gantry, jackup and side-frame removing devices.

Main Hoist Motor Axial variable piston motor with counterbalance valve and a control valve to change motor capacities.

Boom (Auxiliary) Hoist Motor Axial piston motor with counterbalance valve and a control valve to change motor capacities.

Mast (CB) Hoist Motor Radial piston motors with counterbalance valve.

Swing Motor High-torque axial piston motor.

Travel Motor Axial piston motor with brake valve and spring-set/hydraulic-released multiplate disc brake.

Relief and Brake Valves Each hydraulic circuit incorporates large-capacity relief valves to protect circuit from overload or shock load. Counterbalance valves (compensates safe, positive load lowering and prevents accidental load drop when hydraulic power is suddenly reduced) are provided for hoist motor. Brake valves (consisting of relief valve and counterbalance valve) are provided for travel circuit.

Filter Elements High-filtration 10 μ full-flow filter element is provided to keep hydraulic oil clean and to ensure long-term, trouble-free operation. Pilot filter and suction filter are provided in each circuit.



CONTROLS

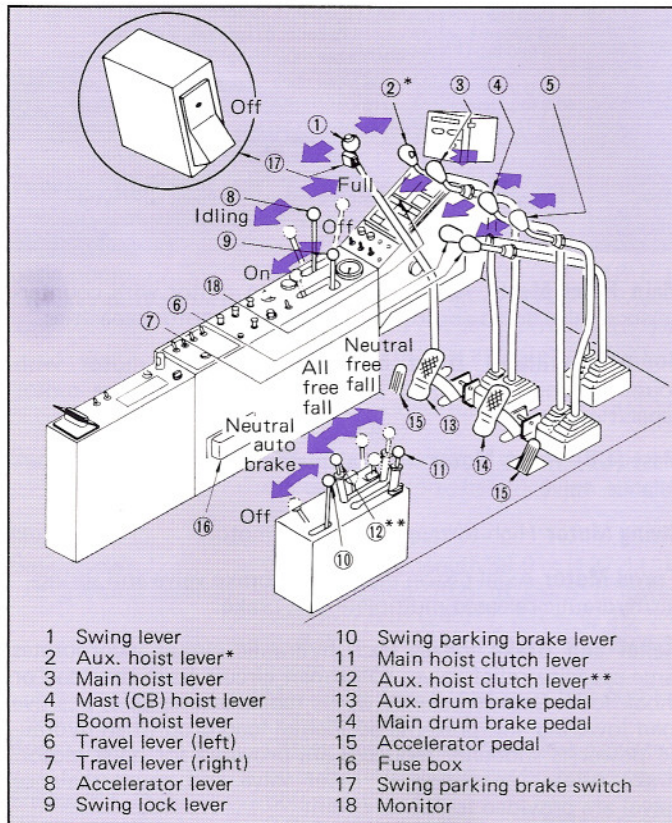
Mast (CB) , Main and Boom (Auxiliary) Hoist and Travel

Remote controlled hydraulic servo. Working speed can be precisely controlled by changing lever stroke.

Main/Auxiliary Hoist Clutch Lever Located on the right side of operator's seat. This lever allows selection of either; a) during crane operation, brake works automatically when the hoist lever is in neutral position; or b) during bucket operation, freefall is possible when the hoist lever is in neutral position. Of course, even during crane operation, it is possible to allow freefall when the hoist lever is in neutral position. It thus permits the operator to select brakes according to the job type, for easy, safe operation.

Swing Mechanical linkage type, featuring smooth, precise swing.

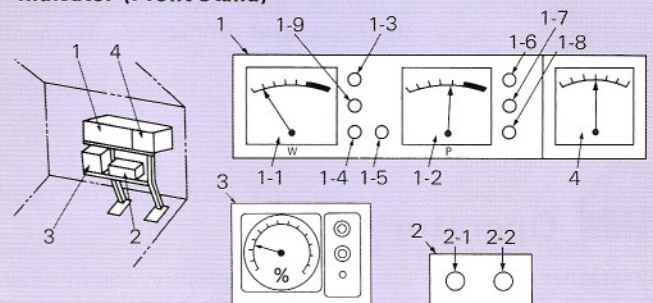
Accelerator Foot throttles (at both right and left pedals) and hand throttle controls are provided as standard.



- | | |
|-------------------------|-------------------------------|
| 1 Swing lever | 10 Swing parking brake lever |
| 2 Aux. hoist lever* | 11 Main hoist clutch lever |
| 3 Main hoist lever | 12 Aux. hoist clutch lever** |
| 4 Mast (CB) hoist lever | 13 Aux. drum brake pedal |
| 5 Boom hoist lever | 14 Main drum brake pedal |
| 6 Travel lever (left) | 15 Accelerator pedal |
| 7 Travel lever (right) | 16 Fuse box |
| 8 Accelerator lever | 17 Swing parking brake switch |
| 9 Swing lock lever | 18 Monitor |

Notes: The single asterisk * means that this should not be used when counterbalancing type front-end attachment specifications apply. The double asterisk ** means that the KH1000 counterbalancing type crane uses an auxiliary hoist drum for raising/lowering the boom. The auxiliary hoist clutch must be in the engaged (in the neutral auto brake position) to apply the lever locking mechanism.

Indicator (Front Stand)



- | | | |
|---|--|--|
| 1 Indicator (1) (Tension indicator) | 1-5 Tail weight carrier float lamp (Yellow) | 2 Indicator (2) (Tire direction indicator) |
| 1-1 Tail weight pendant rope tension meter | 1-6 Lever lock OFF warning lamp (Yellow) | 2-1 Swing OK lamp (Orange) |
| 1-2 Mast (CB) raising/lowering rope tension meter | 1-7 Controller fuse blown warning lamp (Red) | 2-2 Travel OK lamp (Green) |
| 1-3 Tail weight up indicator lamp (Yellow) | 1-8 Mast (CB) overhoist warning lamp (Red) | 3 Load meter |
| 1-4 Tail weight down indicator lamp (Yellow) | 1-9 Green lamp | 4 Anemometer |



SAFETY DEVICES

Boom Angle Indicator Mechanical type boom angle indicator is provided at boom foot.

Counterbalance Valve (Brake Valve) A counterbalance valve is incorporated in travel motors, mast (CB) hoist motor, main and boom (auxiliary) hoist motor, respectively. In case the hydraulic line is broken, this valve is automatically actuated to prevent accidents.

Spring-set/Hydraulic-released Multiplate Disc Type Travel Brakes

Swing Lock

Swing Parking Brake Can be actuated conveniently by either a switch mounted on a swing lever or a lever provided on the right side of operator's seat. It is a maintenance-free, friction plate type brake, of a spring-set hydraulically release type which brakes automatically for safety when the engine stops.

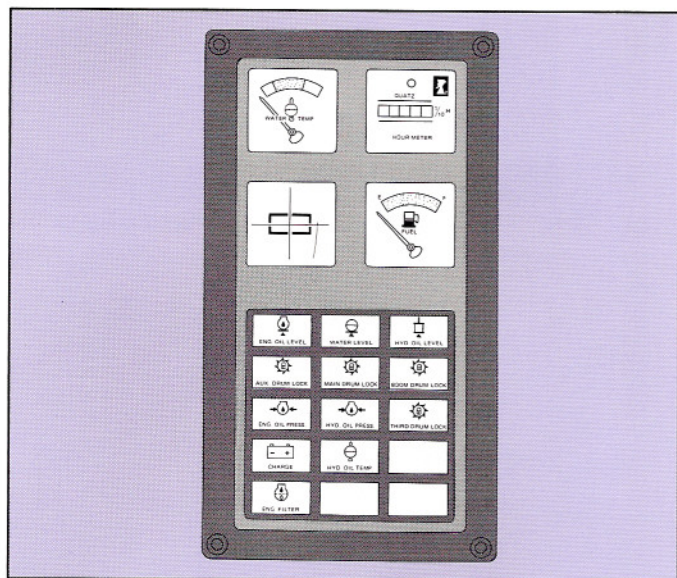
Drum Lock A pawl type drum lock is adopted for main drum, boom (auxiliary) drum and mast (CB) drum.

For lift crane

- **Electric Load Indicator** This indicator is an electrically operated type that reads the weight of a suspended load. The load pick-up device is installed on the upper boom.
- **Hook Overhoist Prevention Device** When the hook reaches its safety hoist limit, an alarm bell rings and an auto stop device automatically stops at the same time.
- **Boom Overhoist Prevention Device** When the boom reaches its safety angle limit, a buzzer alarm sounds and boom hoisting automatically stops at the same time. Boom back-stop is also installed.



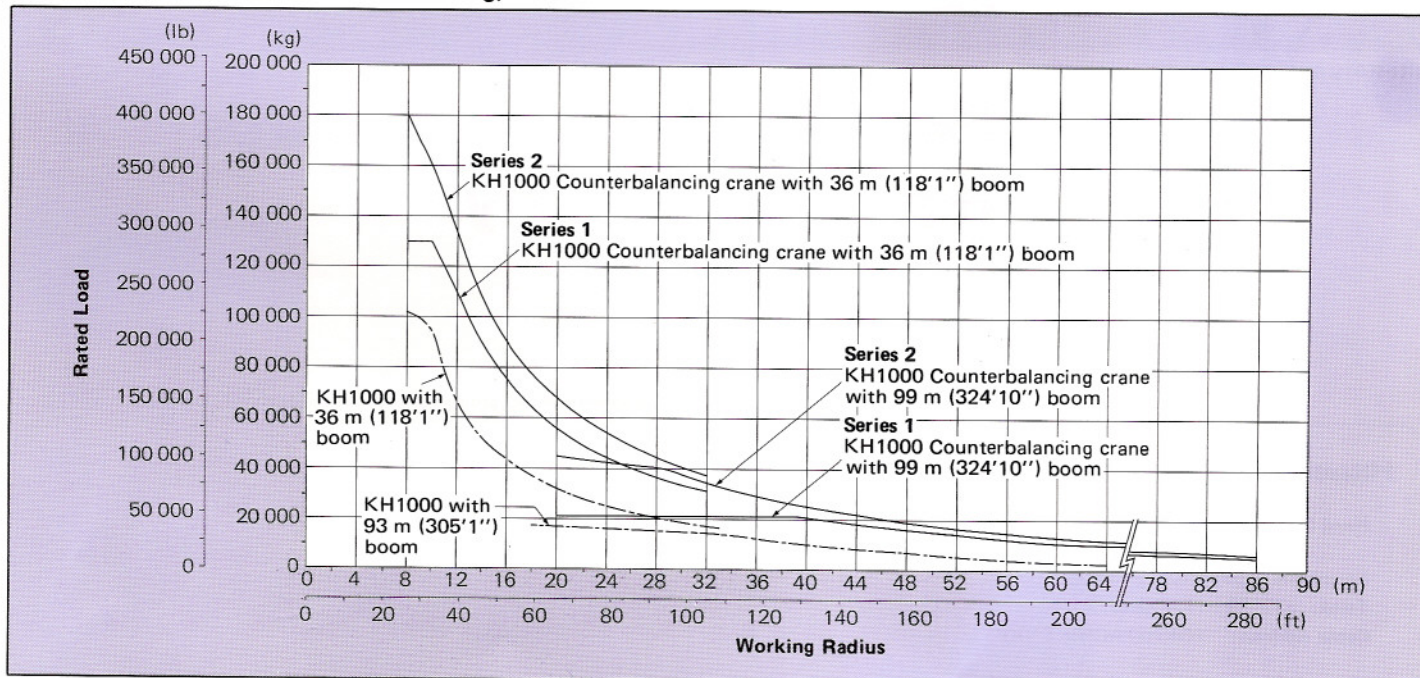
Inspection Monitors Allow the operator to check each function before work is started. If any abnormalities are detected in the engine or control system during work, a lamp lights up and a buzzer sounds to warn the operator. A fuel gauge and an engine coolant temperature gauge are also provided.

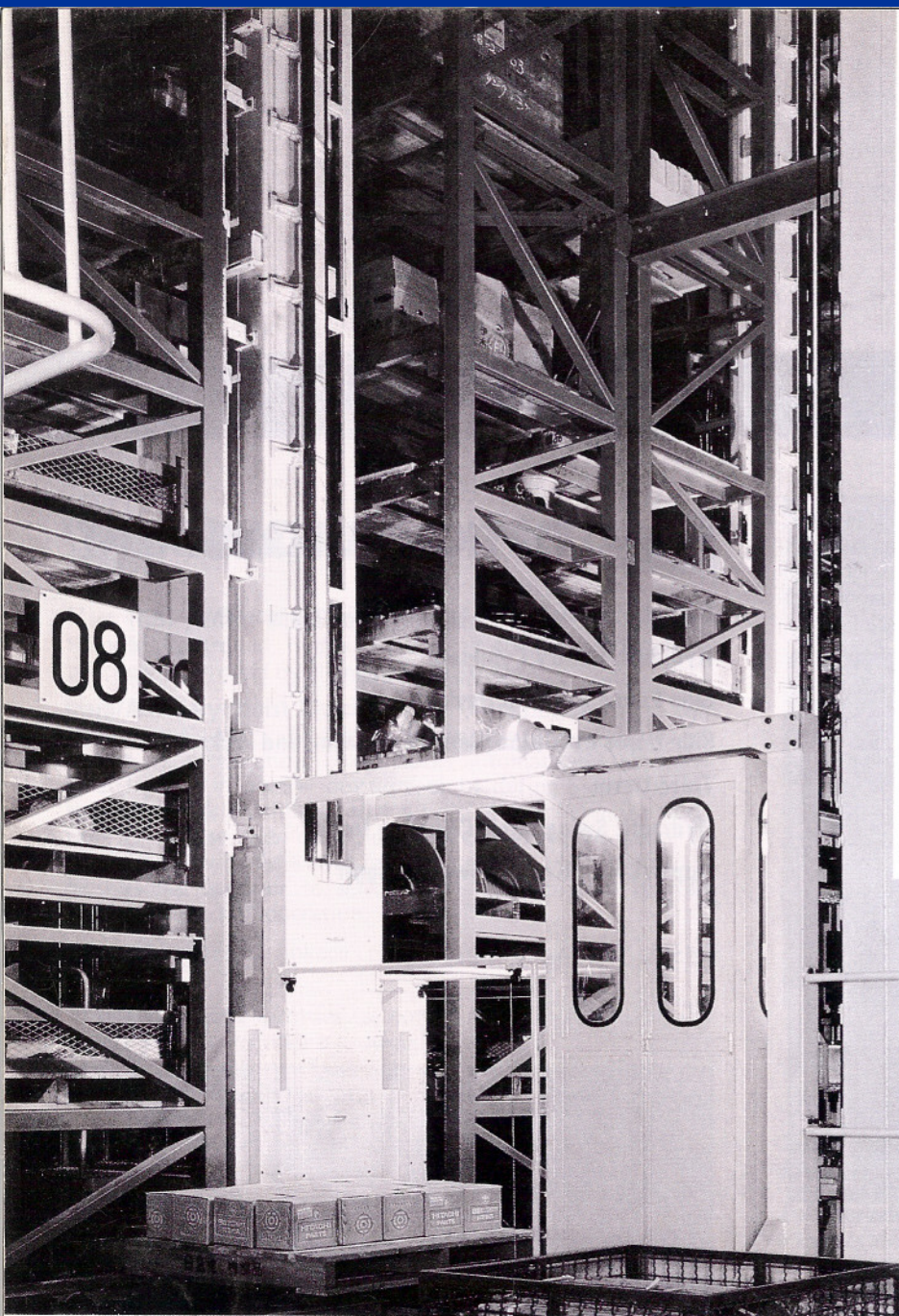


OPTIONAL EQUIPMENT

- Operator's Cab** Electric fan, car radio, cab cooler
- Hydraulic Gantry Cylinders**
- Side Frame Removal Device**
- Side-frame Extension/Retraction Beams and Jacks**
- Third Drum**
- Hydraulic Swing Circle Clamping Device**
- Upper/Lower Knock-down Outrigger**

Crane Rated Load Curve (PCSA Rating)





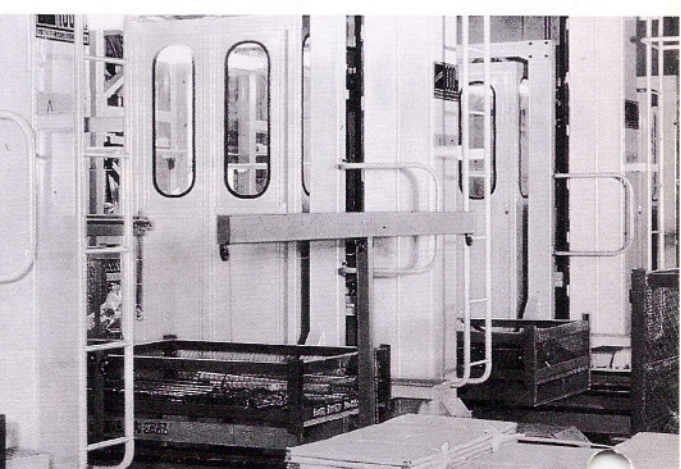
Multi-story automatic warehouse



Local on-site data gathering provides essential feed back for computer analysis.



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