

SPECIFICATIONS



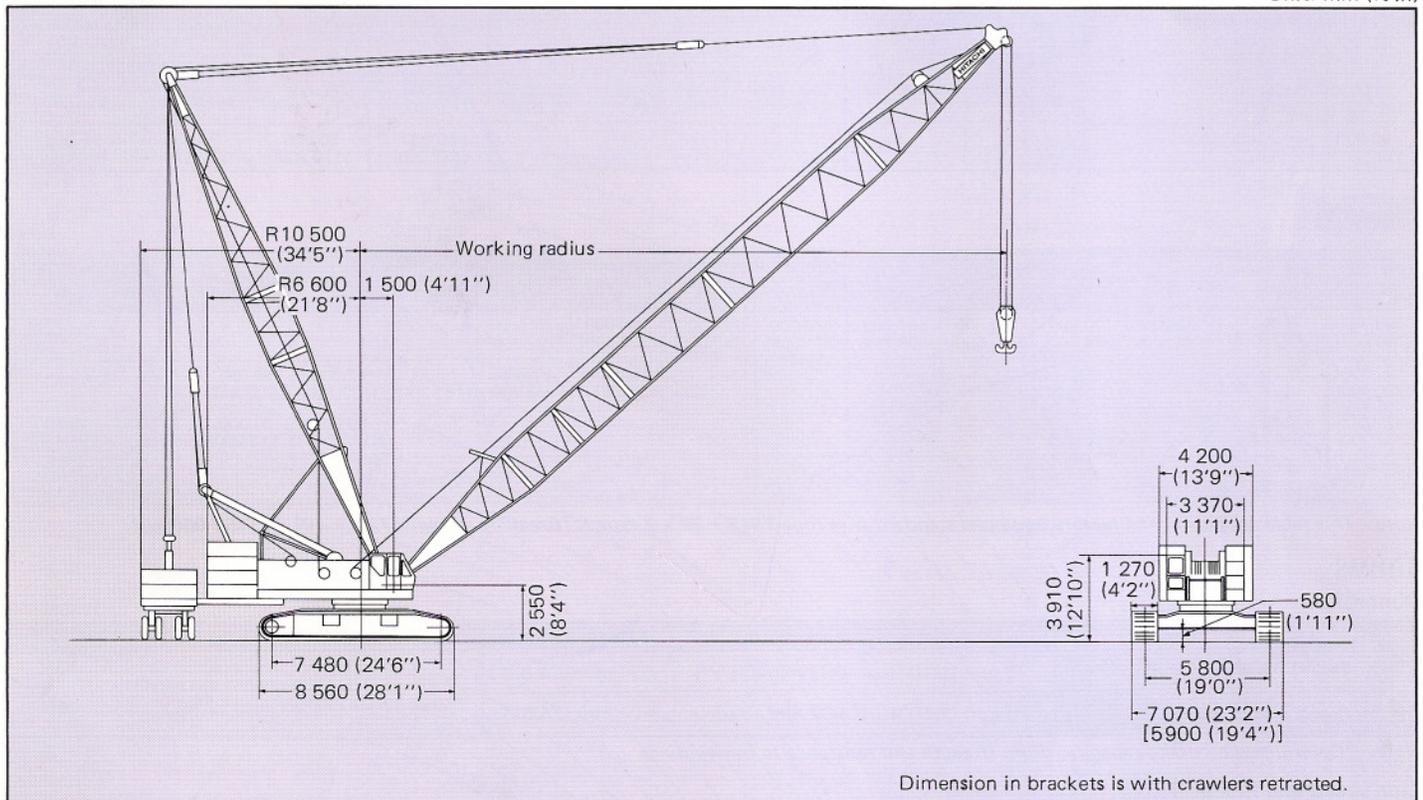
KH1000

COUNTERBALANCING HYDRAULIC CRAWLER CRANE

Max. 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)



Dimension in brackets is with crawlers retracted.

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

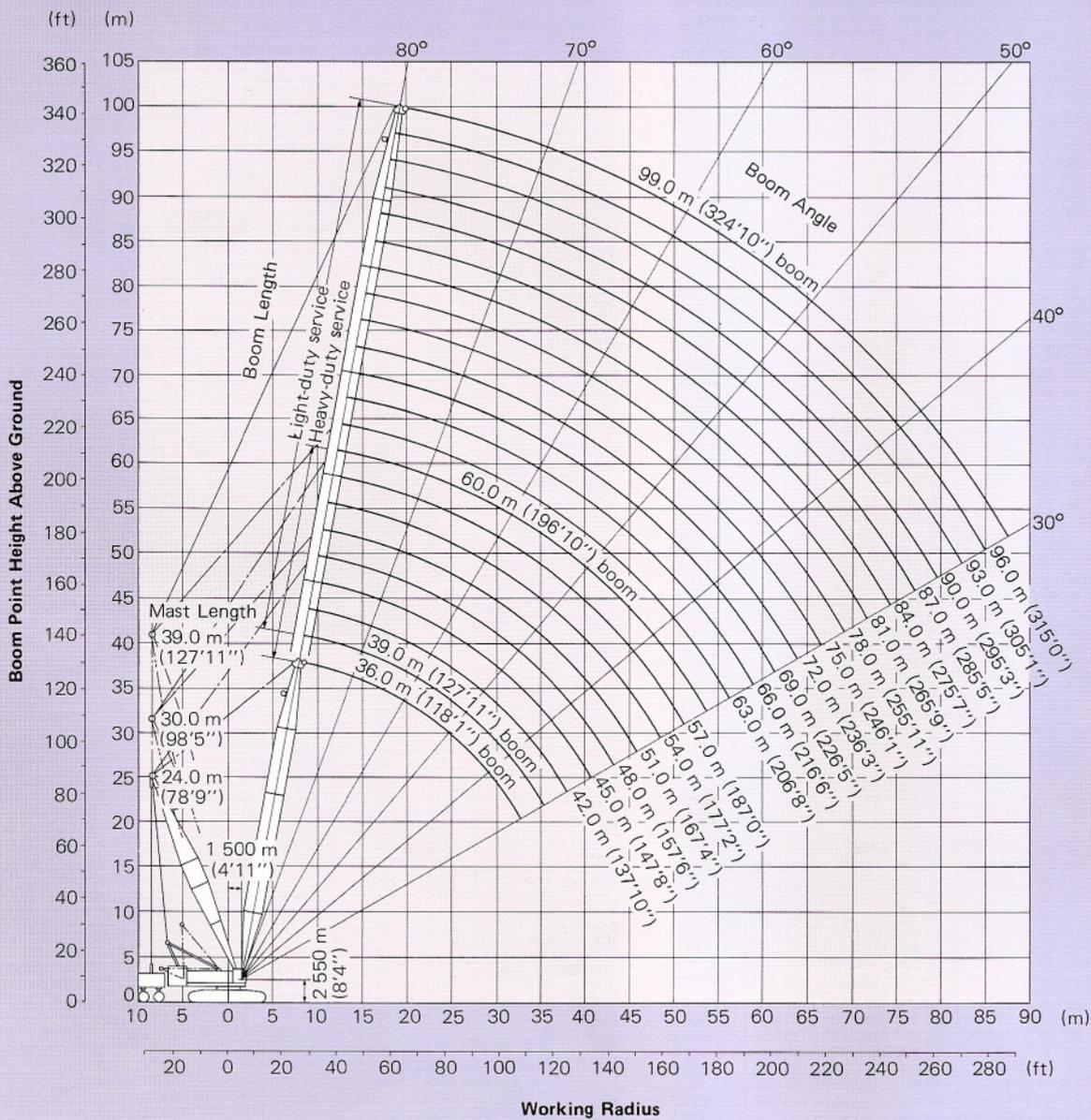
Notes:

- 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.

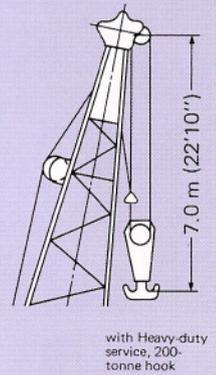
MAST (CB) HOIST DRUM (Twin Drum)

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	
				m	ft in	kg	kg	lb	kg
24.0 (78'9")	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			
24.0 (78'9")	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			
24.0 (78'9")	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			
24.0 (78'9")	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			
24.0 (78'9")	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			

Mast (CB) length	Boom length	Working radius		Rated load					
				JIS rating		BS rating		PCSA rating	
				m	ft in	kg	kg	lb	kg
30.0 (98'5")	51.0 (167'4")	12.0	39' 4"	85 800	77 000	169 700	85 800	189 100	
		14.0	45' 11"	85 800	77 000	169 700	85 800	189 100	
		16.0	52' 6"	74 100	74 100	163 300	74 100	163 300	
		18.0	59' 1"	63 400	63 400	139 700	63 400	139 700	
		20.0	65' 7"	55 200	55 200	121 600	55 200	121 600	
		22.0	72' 2"	48 700	48 700	107 300	48 700	107 300	
		24.0	78' 9"	43 500	43 500	95 900	43 500	95 890	
		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	76 050	
		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"	25 600	25 600	56 430	25 600	56 430			
38.0	124' 8"	23 800	23 800	52 470	23 800	52 460			
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"	19 700	19 700	43 430	19 700	43 430			
30.0 (98'5")	54.0 (177'2")	12.0	39' 4"	78 000	69 000	152 100	78 000	171 900	
		14.0	45' 11"	78 000	69 000	152 100	78 000	171 900	
		16.0	52' 6"	74 000	69 000	152 100	74 000	163 100	
		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"	48 500	48 500	106 900	48 500	106 900	
		24.0	78' 9"	43 300	43 300	95 460	43 300	95 450	
		26.0	85' 4"	39 000	39 000	85 980	39 000	85 970	
		28.0	91' 10"	35 400	35 400	78 040	35 400	78 040	
		30.0	98' 5"	32 300	32 300	71 200	32 300	71 200	
		32.0	105' 0"	29 600	29 600	65 250	29 600	65 250	
		34.0	111' 7"	27 300	27 300	60 180	27 300	60 180	
36.0	118' 1"	25 300	25 300	55 770	25 300	55 770			
38.0	124' 8"	23 600	23 600	52 020	23 600	52 020			
40.0	131' 3"	22 000	22 000	48 500	22 000	48 500			
42.0	137' 10"	20 600	20 600	45 410	20 600	45 410			
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"	17 300	17 300	38 140	17 300	38 130			
30.0 (98'5")	57.0 (187'0")	12.0	39' 4"	68 900	61 600	135 800	68 900	151 800	
		14.0	45' 11"	68 900	61 600	135 800	68 900	151 800	
		16.0	52' 6"	68 900	61 600	135 800	68 900	151 800	
		18.0	59' 1"	63 100	61 600	135 800	63 100	139 100	
		20.0	65' 7"	54 900	54 900	121 000	54 900	121 000	
		22.0	72' 2"	48 400	48 400	106 700	48 400	106 700	
		24.0	78' 9"	43 200	43 200	95 230	43 200	95 230	
		26.0	85' 4"	38 800	38 800	85 530	38 800	85 530	
		28.0	91' 10"	35 200	35 200	77 600	35 200	77 600	
		30.0	98' 5"	32 100	32 100	70 760	32 100	70 760	
		32.0	105' 0"	29 500	29 500	65 030	29 500	65 030	
		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	5			

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		
24.0 (78'9")	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		
24.0 (78'9")	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		
30.0 (98'5")	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		
44.0	144' 4"	20 800	20 800	45 850	20 800	45 850		
30.0 (98'5")	54.0 (177'2")	12.0	39' 4"	77 700	70 000	154 300	77 700	171 200
		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
		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		

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
30.0 (98'5")	57.0 (187'0")	12.0	39' 4"	68 800	62 500	137 700	68 800	151 600
		14.0	45'11"	68 800	62 500	137 700	68 800	151 600
		16.0	52' 6"	68 800	62 500	137 700	68 800	151 600
		18.0	59' 1"	64 200	62 500	137 700	64 200	141 500
		20.0	65' 7"	56 000	56 000	123 400	56 000	123 400
		22.0	72' 2"	49 500	49 500	109 100	49 500	109 100
		24.0	78' 9"	44 200	44 200	97 440	44 200	97 440
		26.0	85' 4"	39 900	39 900	87 960	39 900	87 960
		28.0	91'10"	36 300	36 300	80 020	36 300	80 020
		30.0	98' 5"	33 200	33 200	73 190	33 200	73 190
		32.0	105' 0"	30 600	30 600	67 460	30 600	67 460
		34.0	111' 7"	28 200	28 200	62 160	28 200	62 160
36.0	118' 1"	26 200	26 200	57 760	26 200	57 760		
38.0	124' 8"	24 400	24 400	53 790	24 400	53 790		
40.0	131' 3"	22 900	22 900	50 480	22 900	50 480		
42.0	137'10"	21 500	21 500	47 390	21 500	47 390		
44.0	144' 4"	20 200	20 200	44 530	20 200	44 530		
46.0	150'11"	19 100	19 100	42 100	19 100	42 100		
48.0	157' 6"	18 000	18 000	39 680	18 000	39 680		
50.0	164' 1"	17 100	17 100	37 690	17 100	37 690		
30.0 (98'5")	60.0 (196'10")	14.0	45'11"	62 500	57 100	125 800	62 500	137 700
		16.0	52' 6"	62 500	57 100	125 800	62 500	137 700
		18.0	59' 1"	62 500	57 100	125 800	62 500	137 700
		20.0	65' 7"	55 900	55 900	123 200	55 900	123 200
		22.0	72' 2"	49 400	49 400	108 900	49 400	108 900
		24.0	78' 9"	44 100	44 100	97 220	44 100	97 220
		26.0	85' 4"	39 800	39 800	87 740	39 800	87 740
		28.0	91'10"	36 200	36 200	79 800	36 200	79 800
		30.0	98' 5"	33 100	33 100	72 970	33 100	72 970
		32.0	105' 0"	30 400	30 400	67 010	30 400	67 010
		34.0	111' 7"	28 100	28 100	61 940	28 100	61 940
		36.0	118' 1"	26 100	26 100	57		

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")	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				
	39.0 (127'11")	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				
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				
39.0 (127'11")		75.0 (246'1")	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			
				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				
	39.0 (127'11")	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	65 030	32 200	70 980			
32.0			105' 0"	29 500	29 500	61 500	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 60							

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
87.0 (285'5")	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		
39.0 (127'11")	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	15 870	7 200	15 870		
39.0 (127'11")	99.0 (324'10")	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		
39.0 (127'11")	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 30	

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
				m	ft in	kg	kg	lb
24.0 (78'9")	36.0 (118'1")	8.1	26' 7"	180 000	180 000	396 800	180 000	396 800
		9.0	29' 6"	170 000	170 000	374 700	170 000	374 700
		10.0	32'10"	160 000	160 000	352 700	160 000	352 700
		12.0	39' 4"	133 000	133 000	293 200	133 000	293 200
		14.0	45'11"	107 700	107 700	237 400	107 700	237 400
		16.0	52' 6"	90 300	90 300	199 000	90 300	199 000
		18.0	59' 1"	77 400	77 400	170 600	77 400	170 600
		20.0	65' 7"	67 700	67 700	149 200	67 700	149 200
		22.0	72' 2"	60 000	60 000	132 200	60 000	132 200
		24.0	78' 9"	53 700	53 700	118 300	53 700	118 300
		26.0	85' 4"	48 600	48 600	107 100	48 600	107 100
		28.0	91'10"	44 400	44 400	97 880	44 400	97 880
	30.0	98' 5"	40 800	40 800	89 940	40 800	89 940	
	32.0	105' 0"	37 700	37 700	83 110	37 700	83 110	
	39.0 (127'11")	9.0	29' 6"	169 200	169 200	373 000	169 200	373 000
		10.0	32'10"	160 000	160 000	352 700	160 000	352 700
		12.0	39' 4"	132 700	132 700	292 500	132 700	292 500
		14.0	45'11"	107 400	107 400	236 700	107 400	236 700
		16.0	52' 6"	89 900	89 900	198 100	89 900	198 100
		18.0	59' 1"	77 100	77 100	169 900	77 100	169 900
		20.0	65' 7"	67 300	67 300	148 300	67 300	148 300
		22.0	72' 2"	59 600	59 600	131 300	59 600	131 300
		24.0	78' 9"	53 400	53 400	117 700	53 400	117 700
		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"	37 200	37 200	82 010	37 200	82 010	
	34.0	111' 7"	34 600	34 600	76 280	34 600	76 280	
	42.0 (137'10")	10.0	32'10"	150 000	150 000	330 600	150 000	330 600
		12.0	39' 4"	132 500	132 500	292 100	132 500	292 100
		14.0	45'11"	107 200	107 200	236 300	107 200	236 300
		16.0	52' 6"	89 700	89 700	197 700	89 700	197 700
		18.0	59' 1"	76 900	76 900	169 500	76 900	169 500
		20.0	65' 7"	67 100	67 100	147 900	67 100	147 900
		22.0	72' 2"	59 400	59 400	130 900	59 400	130 900
		24.0	78' 9"	53 100	53 100	117 000	53 100	117 000
26.0		85' 4"	48 000	48 000	105 800	48 000	105 800	
28.0		91'10"	43 700	43 700	96 340	43 700	96 340	
30.0		98' 5"	40 000	40 000	88 180	40 000	88 180	
32.0		105' 0"	36 900	36 900	81 350	36 900	81 340	
34.0	111' 7"	34 200	34 200	75 390	34 200	75 390		
36.0	118' 1"	31 900	31 900	70 320	31 900	70 320		
38.0	124' 8"	29 800	29 800	65 690	29 800	65 690		
45.0 (147'8")	10.0	32'10"	141 700	141 700	312 300	141 700	312 300	
	12.0	39' 4"	132 500	132 500	292 100	132 500	292 100	
	14.0	45'11"	107 200	107 200	236 300	107 200	236 300	
	16.0	52' 6"	89 600	89 600	197 500	89 600	197 500	
	18.0	59' 1"	76 800	76 800	169 300	76 800	169 300	
	20.0	65' 7"	67 000	67 000	147 700	67 000	147 700	
	22.0	72' 2"	59 300	59 300	130 700	59 300	130 700	
	24.0	78' 9"	53 000	53 000	116 800	53 000	116 800	
	26.0	85' 4"	47 800	47 800	105 300	47 800	105 300	
	28.0	91'10"	43 500	43 500	95 900	43 500	95 900	
	30.0	98' 5"	39 900	39 900	87 960	39 900	87 960	
	32.0	105' 0"	36 700	36 700	80 900	36 700	80 900	
34.0	111' 7"	34 000	34 000	74 950	34 000	74 950		
36.0	118' 1"	31 600	31 600	69 660	31 600	69 660		
38.0	124' 8"	29 500	29 500	65 030	29 500	65 030		
40.0	131' 3"	27 700	27 700	61 060	27 700	61 060		
48.0 (157'6")	12.0	39' 4"	129 600	129 600	285 700	129 600	285 700	
	14.0	45'11"	107 000	107 000	235 800	107 000	235 800	
	16.0	52' 6"	89 500	89 500	197 300	89 500	197 300	
	18.0	59' 1"	76 600	76 600	168 800	76 600	168 800	
	20.0	65' 7"	66 800	66 800	147 200	66 800	147 200	
	22.0	72' 2"	59 100	59 100	130 200	59 100	130 200	
	24.0	78' 9"	52 800	52 800	116 400	52 800	116 400	
	26.0	85' 4"	47 700	47 700	105 100	47 700	105 100	
	28.0	91'10"	43 300	43 300	95 460	43 300	95 450	
	30.0	98' 5"	39 700	39 700	87 520	39 700	87 520	
	32.0	105' 0"	36 500	36 500	80 460	36 500	80 460	
	34.0	111' 7"	33 800	33 800	74 510	33 800	74 510	
36.0	118' 1"	31 400	31 400	69 220	31 400	69 220		
38.0	124' 8"	29 300	29 300	64 590	29 300	64 590		
40.0	131' 3"	27 400	27 400	60 400	27 400	60 400		
42.0	137'10"	25 700	25 700	56 650	25 700	56 650		

Mast (CB) length	Boom length	Working radius		Rated load				
				JIS rating		BS rating		PCSA rating
				m	ft in	kg	kg	lb
30.0 (98'5")	51.0 (167'4")	12.0	39' 4"	125 000	125 000	275 500	125 000	275 500
		14.0	45'11"	107 200	107 200	236 300	107 200	236 300
		16.0	52' 6"	89 600	89 600	197 500	89 600	197 500
		18.0	59' 1"	76 700	76 700	169 000	76 700	169 000
		20.0	65' 7"	66 800	66 800	147 200	66 800	147 200
		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"	47 500	47 500	104 700	47 500	104 700
		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"	36 300	36 300	80 020	36 300	80 020
		34.0	111' 7"	33 500	33 500	73 850	33 500	73 850
	36.0	118' 1"	31 100	31 100	68 560	31 100	68 560	
	38.0	124' 8"	29 000	29 000	63 930	29 000	63 930	
	40.0	131' 3"	27 100	27 100	59 740	27 100	59 740	
	42.0	137'10"	25 400	25 400	55 990	25 400	55 990	
	44.0	144' 4"	23 900	23 900	52 690	23 900	52 690	
	54.0 (177'2")	12.0	39' 4"	117 100	117 100	258 100	117 100	258 100
		14.0	45'11"	107 100	107 100	236 100	107 100	236 100
		16.0	52' 6"	89 500	89 500	197 300	89 500	197 300
		18.0	59' 1"	76 500	76 500	168 600	76 500	168 600
		20.0	65' 7"	66 700	66 700	147 000	66 700	147 000
		22.0	72' 2"	58 900	58 900	129 800	58 900	129 800
		24.0	78' 9"	52 600	52 600	115 900	52 600	115 900
		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"	39 300	39 300	86 640	39 300	86 640
		32.0	105' 0"	36 100	36 100	79 580	36 100	79 580
		34.0	111' 7"	33 300	33 300	73 410	33 300	73 410
	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"	26 900	26 900	59 300	26 900	59 300	
	42.0	137'10"	25 200	25 200	55 550	25 200	55 550	
	44.0	144' 4"	23 700	23 700	52 240	23 700	52 240	
	46.0	150'11"	22 300	22 300	49 160	22 300	49 160	
	48.0	157' 6"	21 100	21 100	46 510	21 100	46 510	
	57.0 (187'0")	12.0	39' 4"	108 800	108 800	239 800	108 800	239 800
		14.0	45'11"	107 000	107 000	235 800	107 000	235 800
		16.0	52' 6"	89 400	89 400	197 000	89 400	197 000
		18.0	59' 1"	76 400	76 400	168 400	76 400	168 400
		20.0	65' 7"	66 500	66 500	146 600	66 500	146 600
		22.0	72' 2"	58 700	58 700	129 400	58 700	129 400
		24.0	78' 9"	52 400	52 400	115 500	52 400	115 500
		26.0	85' 4"	47 200	47 200	104 000	47 200	104 000
		28.0	91'10"	42 800	42 800	94 350	42 800	94 350
		30.0	98' 5"	39 100	39 100	86 200	39 100	86 190
		32.0	105' 0"	35 900	35 900	79 140	35 900	79 140
		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"	28 600	28 600	63 050	28 600	63 050		
40.0	131' 3"	26 700	26 700	58 860	26 700	58 860		
42.0	137'10"	25 000	25 000	55 110	25 000	55 110		
44.0	144' 4"	23 400	23 400	51 580	23 400	51 580		
46.0	150'11"	22 100	22 100	48 720	22 100	48 720		

Light-duty Service

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

Mast (CB) length	Boom length	Working radius		Rated load						
				JIS rating		BS rating		PCSA rating		
				m	ft in	kg	kg	lb	kg	lb
30.0 (98'5")	57.0 (187'0")	12.0	39' 4"	100 000	100 000	220 400	100 000	220 400	100 000	220 400
		14.0	45' 11"	100 000	100 000	220 400	100 000	220 400	100 000	220 400
		16.0	52' 6"	90 200	90 200	198 800	90 200	198 800	90 200	198 800
		18.0	59' 1"	77 300	77 300	170 400	77 300	170 400	77 300	170 400
		20.0								

Mast (CB) length	Boom length	Working radius		Rated load					
				JIS rating		BS rating		PCSA rating	
				m	ft in	kg	kg	lb	kg
69.0 (226'5")	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	
39.0 (127'11")	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		
	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			
75.0 (246'1")	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	
				m	ft in	kg	kg	lb	kg
78.0 (255'11")	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			
39.0 (127'11")	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						

Mast (CB) length	Boom length	Working radius		Rated load						
				JIS rating	BS rating		PCSA rating			
					kg	kg	lb	lb		
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	lb			
87.0 (285'5")	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	22 160	10 100	22 260		
		74.0	242' 9"	9 600	9 600	21 260	9 600	21 160		
		76.0	249' 4"	9 200	9 200	20 280	9 200	20 280		
		90.0 (295'3")	90.0 (295'3")	18.0	59' 1"	55 500	55 000	121 200	55 500	122 300
				20.0	65' 7"	55 500	55 000	121 200	55 500	122 300
22.0	72' 2"			55 500	55 000	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		
93.0 (305'1")	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	lb
m (ft in)	m (ft in)	m	ft in	kg	kg	lb	lb	
87.0 (285'5")	87.0 (285'5")	18.0	59' 1"	47 900	46 500	102 500	47 900	105 500
		20.0	65' 7"	46 900	46 500	102 500	46 900	103 300
		22.0	72' 2"	45 800	45 800	100 900	45 800	100 900
		24.0	78' 9"	44 600	44 600	98 320	44 600	98 320
		26.0	85' 4"	41 600	41 600	91 710	41 600	91 710
		28.0	91'10"	37 900	37 900	83 550	37 900	83 550
		30.0	98' 5"	34 600	34 600	76 280	34 600	76 270
		32.0	105' 0"	31 800	31 800	70 100	31 800	70 100
		34.0	111' 7"	29 300	29 300	64 590	29 300	64 590
		36.0	118' 1"	27 100	27 100	59 740	27 100	59 740
		38.0	124' 8"	25 100	25 100	55 330	25 100	55 330
		40.0	131' 3"	23 400	23 400	51 580	23 400	51 580
		42.0	137'10"	21 800	21 800	48 060	21 800	48 050
		44.0	144' 4"	20 300	20 300	44 750	20 300	44 750
		46.0	150'11"	19 000	19 000	41 880	19 000	41 880
		48.0	157' 6"	17 800	17 800	39 240	17 800	39 240
		50.0	164' 1"	16 700	16 700	36 810	16 700	36 810
		52.0	170' 7"	15 700	15 700	34 610	15 700	34 610
		54.0	177' 2"	14 800	14 800	32 620	14 800	32 620
		56.0	183' 9"	13 900	13 900	30 640	13 900	30 640
		58.0	190' 3"	13 100	13 100	28 880	13 100	28 880
		60.0	196'10"	12 400	12 400	27 330	12 400	27 330
		62.0	203' 5"	11 700	11 700	25 790	11 700	25 790
		64.0	210' 0"	11 100	11 100	24 470	11 100	24 470
		66.0	216' 6"	10 500	10 500	23 140	10 500	23 140
		68.0	223' 1"	9 900	9 900	21 820	9 900	21 820
		70.0	229' 8"	9 400	9 400	20 720	9 400	20 720
		72.0	236' 3"	8 900	8 900	19 620	8 900	19 620
		74.0	242' 9"	8 400	8 400	18 510	8 400	18 510
		76.0	249' 4"	7 900	7 900	17 410	7 900	17 410
		78.0	255'11"	7 400	7 400	16 310	7 400	16 310
		80.0	262' 6"	6 900	6 900	15 210	6 900	15 210
82.0	269' 0"	6 500	6 500	14 330	6 500	14 320		
90.0 (295'3")	90.0 (295'3")	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	95 460
		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 4	

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			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
42.0 m (137'10")	1				1	1	2	1		8	
45.0 m (147'8")	1				1	1	1	2		8	
48.0 m (157'6")	1				1	1	1	1	1	8	
30.0 m (98'5")	51.0 m (167'4")		1		1	2	1	1	1	7	
	54.0 m (177'2")		1		1	1	2	1	1	7	
	57.0 m (187'0")		1		1	1	1	2	1	6	
	60.0 m (196'10")		1		1	1	1	1	2	5	
	39.0 m (127'11")		63.0 m (206'8")	1		1	2	1	1	2	5
66.0 m (216'6")			1		1	1	2	1	2	5	
69.0 m (226'5")			1		1	1	1	2	2	4	
72.0 m (236'3")			1		1	1	1	1	3	4	
75.0 m (246'1")			1		1	2	1	1	3	4	
78.0 m (255'11")			1		1	1	2	1	3	4	
81.0 m (265'9")			1		1	1	1	2	3	3	
84.0 m (275'7")			1		1	1	1	1	4	3	
87.0 m (285'5")			1		1	2	1	1	4	3	
90.0 m (295'3")			1		1	1	2	1	4	3	
93.0 m (305'1")	1			1	1	1	2	4	2		
96.0 m (315'0")	1		1	1	1	1	5	2			
99.0 m (324'10")	1		1	2	1	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

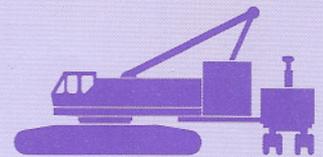
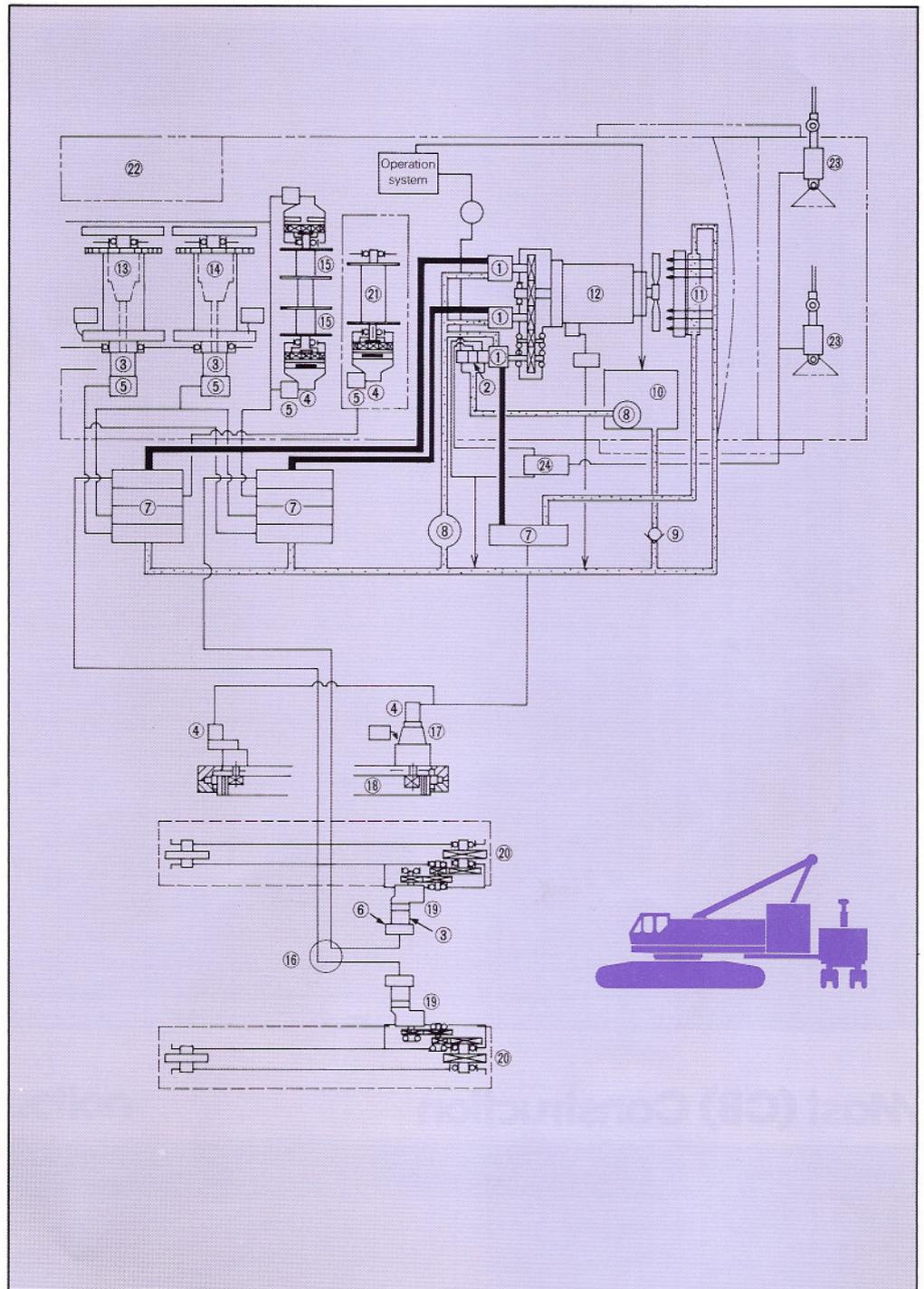
	Mast (CB) length	Boom length	Lower boom 7.5 m (24'7")	Taper lower boom insert 7.5 m (24'7")	Upper boom 7.5 m (24'7")	Upper boom 10.5 m (34'5")	Taper upper boom insert 7.5 m (24'7")	Boom insert 3.0 m (9'10")	Boom insert 6.0 m (19'8")	Boom insert 9.0 m (29'6")	Boom insert 12.0 m (39'4")	Available hook	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		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) (2 000 rpm)
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 splined 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"); 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"); 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"); 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"); 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 multi-plate 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	<ul style="list-style-type: none"> ● Travel (right) ● Main hoist (high) ● Boom (Aux.) hoist (low) ● Mast (CB) hoist 	<ul style="list-style-type: none"> ● 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)	<ul style="list-style-type: none"> *1 5 bar (5 kgf/cm², 71.1 psi) *2 175 bar (175 kgf/cm², 2 490 psi) *3 40/175 bar (40/175 kgf/cm², 569/2 490 psi)
Oil flow	210 l/min (46.2 Imp. gpm, 55.5 U.S. gpm)	<ul style="list-style-type: none"> *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	<ul style="list-style-type: none"> ● Swing 	<ul style="list-style-type: none"> *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

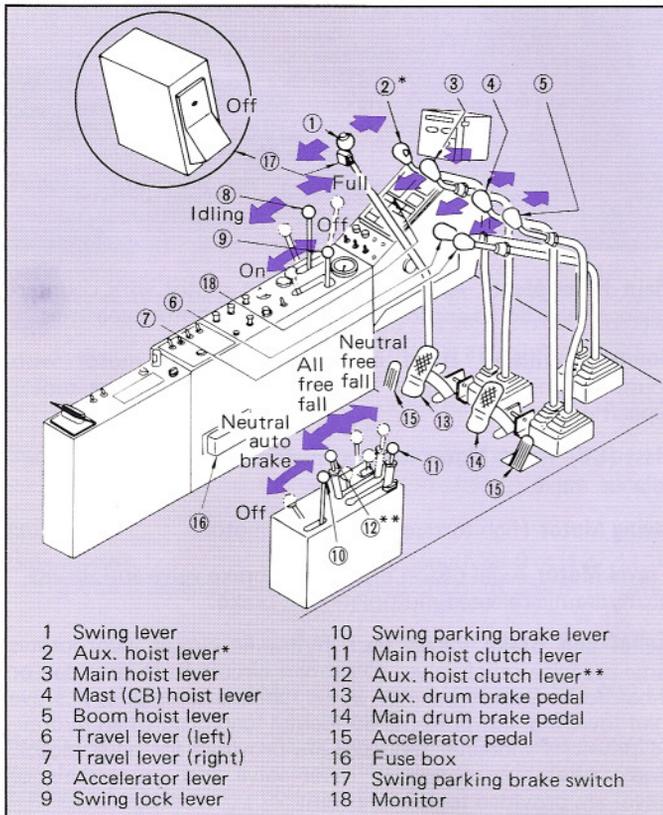
Mast (CB) , Main and Boom (Auxiliary) Hoist and Travel

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.

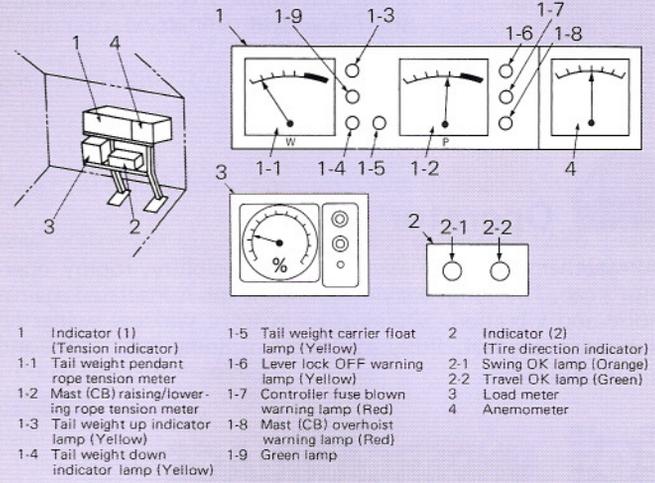
Accelerator Foot throttles (at both right and left pedals) and hand throttle controls are provided as standard.



- | | |
|-------------------------|-------------------------------|
| 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)



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

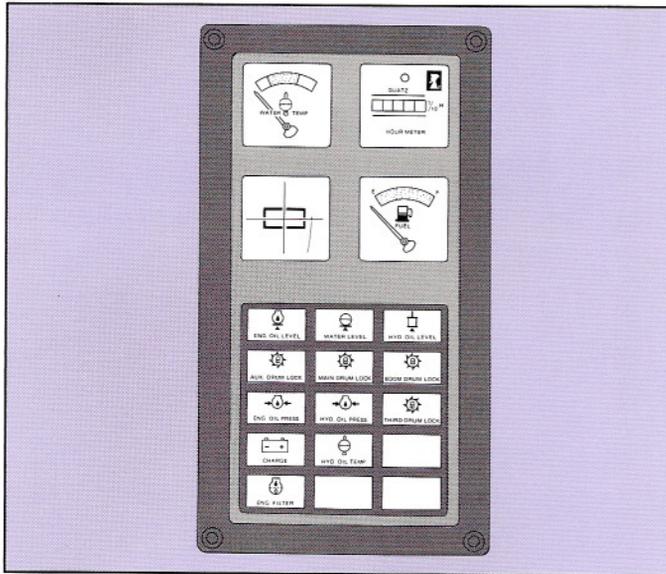
Swing Parking Brake Can be actuated conveniently by either a switch mounted on a swing lever or a lever provided on the right side of operator's seat. It is a maintenance-free, friction plate type brake, of a spring-set hydraulically release type which brakes automatically for safety when the engine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

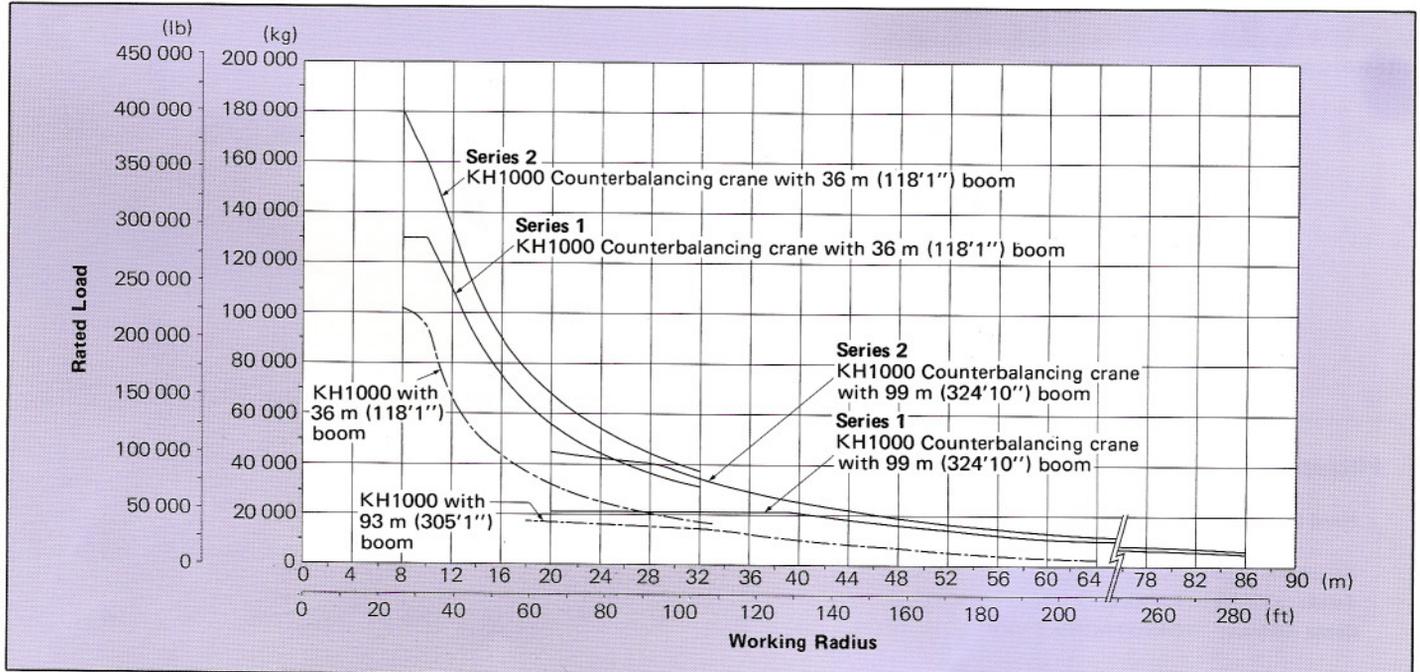
Side-frame Extension/Retraction Beams and Jacks

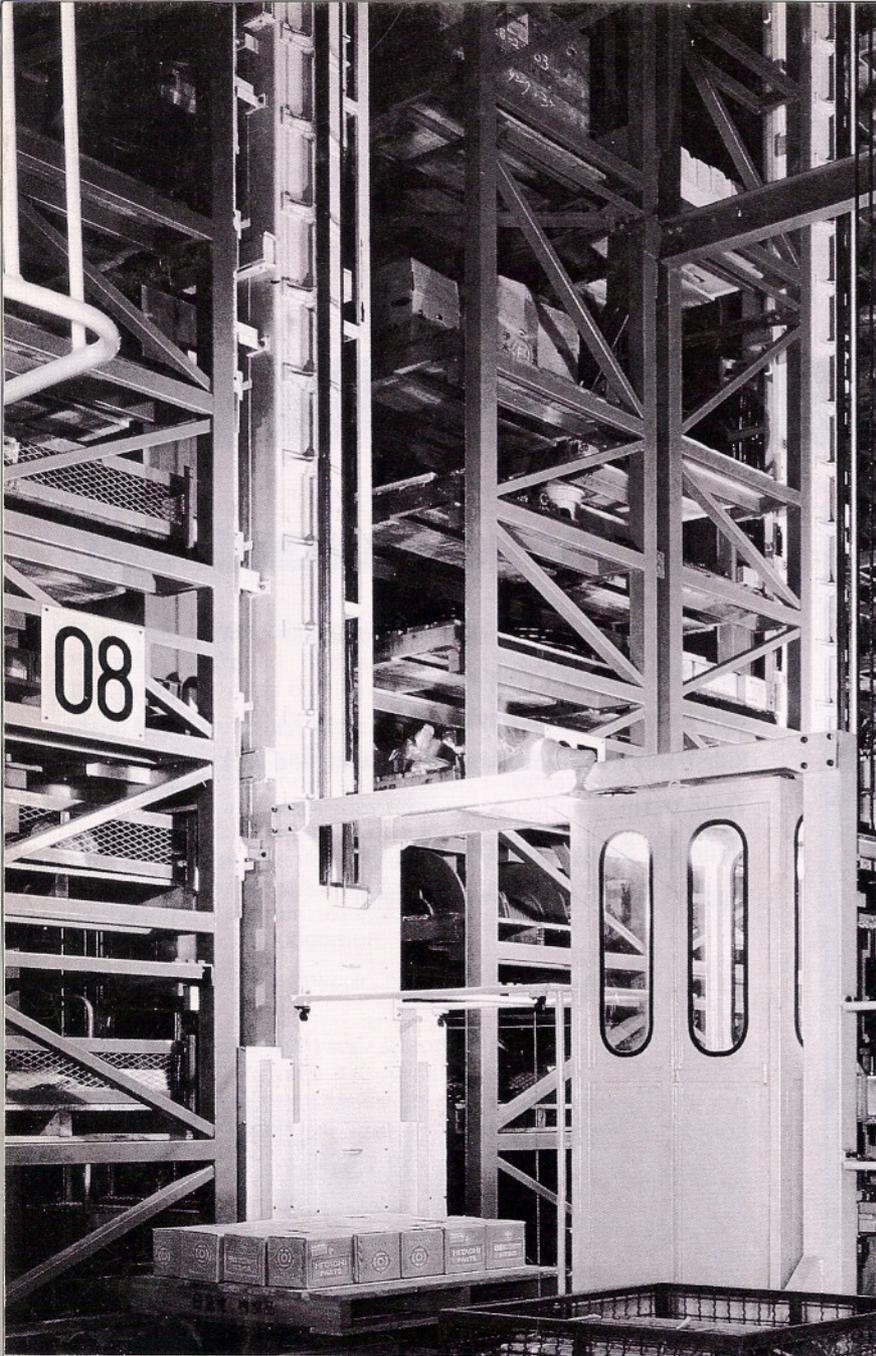
Third Drum

Hydraulic Swing Circle Clamping Device

Upper/Lower Knock-down Outrigger

Crane Rated Load Curve (PCSA Rating)





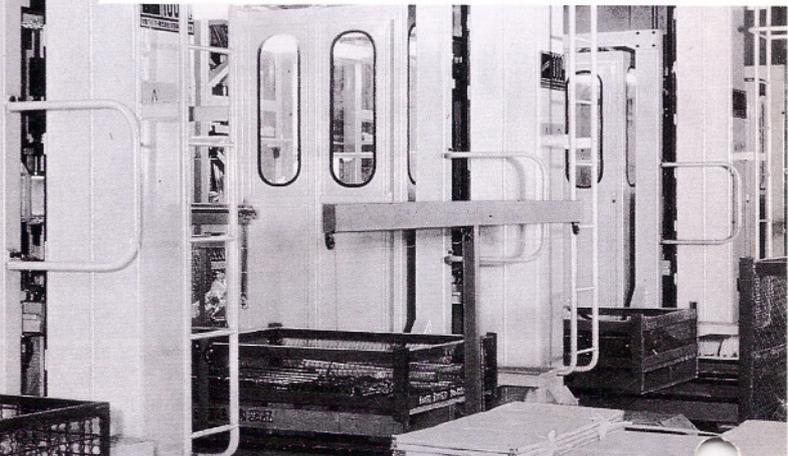
Multi-story automatic warehouse



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



Computerized parts supply . . . video data terminal.



Better After-Sales Service Assures Higher Availability.

Hitachi Construction Machinery Co., Ltd.

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