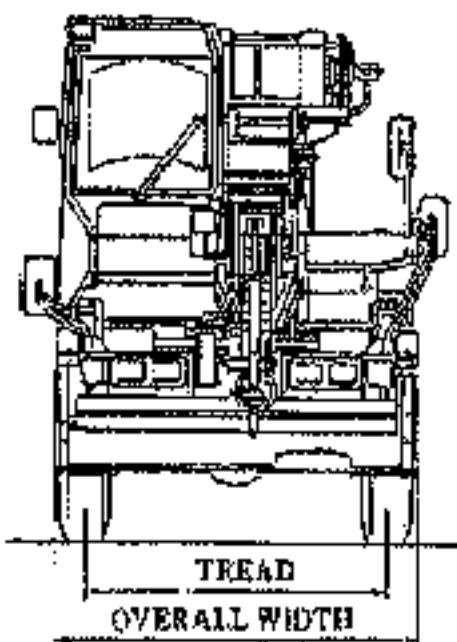
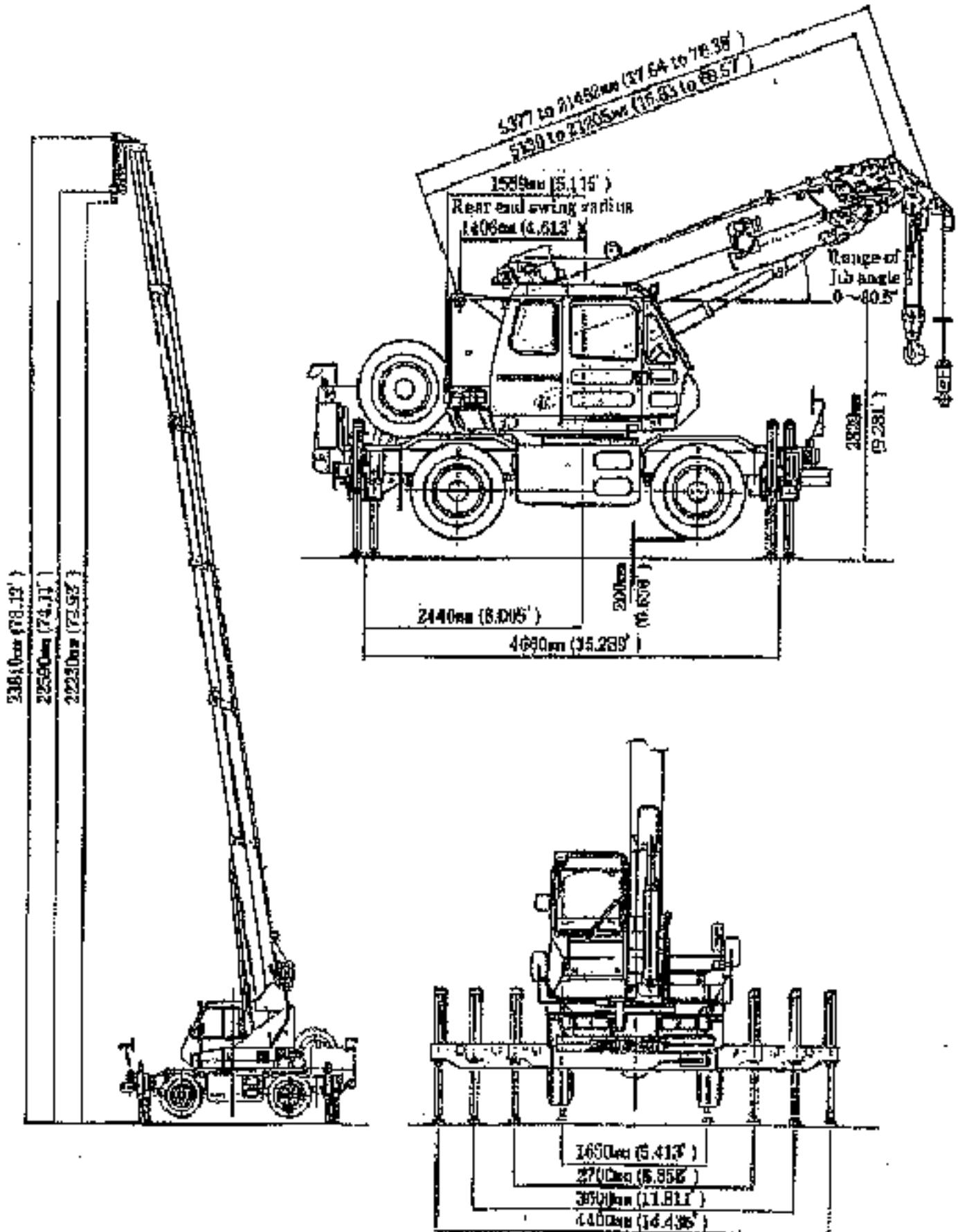


Fig. 1-1

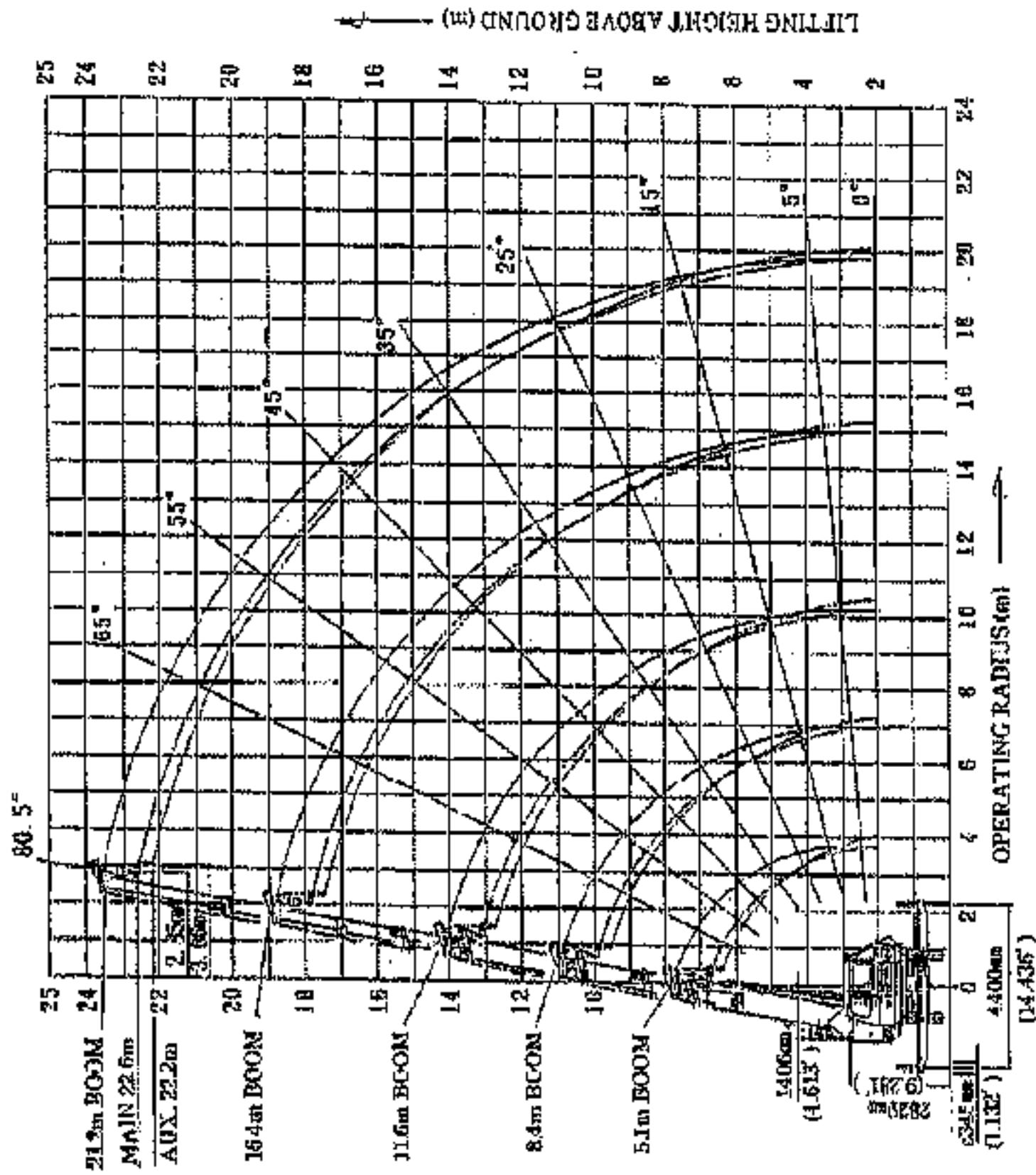
Tire	10.00-20-14PR 10.00R20-14PR	275/80R22.5	13/30R20
Overall Height	2760mm (9.055ft)	2790mm (8.957ft)	2745mm (9.003ft)
Tread	1530mm (5.012ft)	1700mm (5.577ft)	1730mm (5.679ft)
Overall width	1990mm (6.545ft)	1995mm (6.545ft)	2030mm (6.624ft)





The followings show the reported values. The values may be different according to the contents of the equipments.

Kind of Carrier		EN2		EV2	
Name and Model	Classification	601	602	003	001
	Tire	10.00R20-14PR 10.00R20-14PR	275/80R22.5	13/80R20	10.00R20-14PR
Length	m (ft)	6.950 (22.852)	←	←	←
Width	m (ft)	1.955 (6.545)	←	2.000 (6.824)	1.955 (6.545)
Height	m (ft)	2.760 (9.055)	2.730 (8.957)	2.746 (9.046)	2.760 (9.055)
Wheel Base	m (ft)	2.700 (8.858)	←	←	←
Tread (front)	m (ft)	1.680 (5.512)	1.700 (5.577)	1.730 (5.679)	1.690 (5.512)
Tread (rear)	m (ft)	1.670 (5.512)	1.700 (5.577)	1.730 (5.679)	1.680 (5.512)
Road Clearance	m (ft)	0.225 (0.735)	0.230 (0.755)	0.245 (0.814)	0.225 (0.735)
Total Weight	kg (lb)	11480 (25309)	11430 (25109)	11580 (25529)	11200 (24603)
Front Axle Load	kg (lb)	5710 (12583)	5680 (12522)	5780 (12629)	5510 (12147)
Rear Axle Load	kg (lb)	5770 (12721)	5750 (12677)	5920 (12810)	5690 (12545)
Number of Seating Capacity		1	←	←	←



(II) RATED LIFTING CAPACITY CHART WITH USE OF OUTRIGGERS

- 1) Load ratings do not exceed 78 percents of tipping load with the machine set horizontally on a firm and level ground, and include weight of hook block(s) and other load handling accessories.

Ratings in area are based on the machine's structural strength, and others are determined by the machine stability.

Kind of hook	<input checked="" type="checkbox"/> ton	<input type="checkbox"/> ton
Weight	<input checked="" type="checkbox"/> kg (154.2lb)	<input type="checkbox"/> kg (55.1lb)

- 2) Since the operating radius given in the chart includes allowances for laden boom deflection, the machine must be always operated on the basis of actual operating radius.

- 3) The outrigger maximum extended width is 4.4 meters (14.43ft), and the mid-point extended widths are 3.6 meters (11.81ft) and 2.7 meters (8.85ft).

- 4) Ratings in Over Side vary according to the outrigger extended condition. Therefore operation must be based on the rating chart corresponding to each outrigger extended condition.

- 5) When the boom length exceeds the specified length shown in the rating chart, operation must be performed basing on the smaller rating of the specified length or the next longer boom length above.

- 6) Ratings with the use of the auxiliary sheave are the same as the ratings with the boom less 70kg (154.3lb), but should not exceed 140kg (308.6lb).

- 7) Free falling operation shall be, as a rule, used when lowering the hook block only. When it is required to free fall a load, the load must not exceed one fifth of the rated load, and sudden brake must be absolutely avoided.

Standard number of reeving of hook block

Boom length	Used hook	Number of parts
5.1m	4.9ton hook	4
6.4m	4.9ton hook	4
11.6m	4.9ton hook	4
16.4m	4.9ton hook	4
21.3m	4.9ton hook	4

(2) RATED CAPACITY CHART WITH USE OF OUTRIGGERS

Operational Radius (m)	Quartile points of estimated flight times (min)										Quartile points of estimated flight times (min)									
	5-13m	6-25m	11-50m	1-100m	1-200m	1-300m	1-500m	1-1000m	1-2000m	1-3000m	1-5000m	1-10000m	1-20000m	1-30000m	1-50000m	1-100000m	1-200000m	1-300000m	1-500000m	
1.0	1.90	4.90	11.60	35.0	115.0	350.0	1,150	3,500	11,500	35,000	115,000	350,000	1,150,000	3,500,000	11,500,000	35,000,000	115,000,000	350,000,000	1,150,000,000	
1.5	2.80	7.80	18.00	58.0	180.0	580.0	1,800	5,800	18,000	58,000	180,000	580,000	1,800,000	5,800,000	18,000,000	58,000,000	180,000,000	580,000,000	1,800,000,000	
2.0	3.70	9.70	24.00	82.0	240.0	820.0	2,400	8,200	24,000	82,000	240,000	820,000	2,400,000	8,200,000	24,000,000	82,000,000	240,000,000	820,000,000	2,400,000,000	
2.5	4.60	11.60	30.00	98.0	300.0	980.0	3,000	9,800	30,000	98,000	300,000	980,000	3,000,000	9,800,000	30,000,000	98,000,000	300,000,000	980,000,000	3,000,000,000	
3.0	5.50	13.50	36.00	114.0	360.0	1,140.0	3,600	11,400	36,000	114,000	360,000	1,140,000	3,600,000	11,400,000	36,000,000	114,000,000	360,000,000	1,140,000,000	3,600,000,000	
3.5	6.40	15.40	42.00	130.0	420.0	1,300.0	4,200	13,000	42,000	130,000	420,000	1,300,000	4,200,000	13,000,000	42,000,000	130,000,000	420,000,000	1,300,000,000	4,200,000,000	
4.0	7.30	17.30	48.00	146.0	480.0	1,460.0	4,800	14,600	48,000	146,000	480,000	1,460,000	4,800,000	14,600,000	48,000,000	146,000,000	480,000,000	1,460,000,000	4,800,000,000	
4.5	8.20	19.20	54.00	162.0	540.0	1,620.0	5,400	16,200	54,000	162,000	540,000	1,620,000	5,400,000	16,200,000	54,000,000	162,000,000	540,000,000	1,620,000,000	5,400,000,000	
5.0	9.10	21.10	60.00	178.0	600.0	1,780.0	6,000	17,800	60,000	178,000	600,000	1,780,000	6,000,000	17,800,000	60,000,000	178,000,000	600,000,000	1,780,000,000	6,000,000,000	
5.5	10.00	23.00	66.00	194.0	660.0	1,940.0	6,600	19,400	66,000	194,000	660,000	1,940,000	6,600,000	19,400,000	66,000,000	194,000,000	660,000,000	1,940,000,000	6,600,000,000	
6.0	10.90	24.90	72.00	210.0	720.0	2,100.0	7,200	21,000	72,000	210,000	720,000	2,100,000	7,200,000	21,000,000	72,000,000	210,000,000	720,000,000	2,100,000,000	7,200,000,000	
6.5	11.80	26.80	78.00	226.0	780.0	2,260.0	7,800	22,600	78,000	226,000	780,000	2,260,000	7,800,000	22,600,000	78,000,000	226,000,000	780,000,000	2,260,000,000	7,800,000,000	
7.0	12.70	28.70	84.00	242.0	840.0	2,420.0	8,400	24,200	84,000	242,000	840,000	2,420,000	8,400,000	24,200,000	84,000,000	242,000,000	840,000,000	2,420,000,000	8,400,000,000	
7.5	13.60	30.60	90.00	258.0	900.0	2,580.0	9,000	25,800	90,000	258,000	900,000	2,580,000	9,000,000	25,800,000	90,000,000	258,000,000	900,000,000	2,580,000,000	9,000,000,000	
8.0	14.50	32.50	96.00	274.0	960.0	2,740.0	9,600	27,400	96,000	274,000	960,000	2,740,000	9,600,000	27,400,000	96,000,000	274,000,000	960,000,000	2,740,000,000	9,600,000,000	
8.5	15.40	34.40	102.00	290.0	1,020.0	2,900.0	10,200	29,000	102,000	290,000	1,020,000	2,900,000	10,200,000	29,000,000	102,000,000	290,000,000	1,020,000,000	2,900,000,000	10,200,000,000	
9.0	16.30	36.30	108.00	306.0	1,080.0	3,060.0	10,800	30,600	108,000	306,000	1,080,000	3,060,000	10,800,000	30,600,000	108,000,000	306,000,000	1,080,000,000	3,060,000,000	10,800,000,000	
9.5	17.20	38.20	114.00	322.0	1,140.0	3,220.0	11,400	32,200	114,000	322,000	1,140,000	3,220,000	11,400,000	32,200,000	114,000,000	322,000,000	1,140,000,000	3,220,000,000	11,400,000,000	
10.0	18.10	40.10	120.00	338.0	1,200.0	3,380.0	12,000	33,800	120,000	338,000	1,200,000	3,380,000	12,000,000	33,800,000	120,000,000	338,000,000	1,200,000,000	3,380,000,000	12,000,000,000	
10.5	19.00	42.00	126.00	354.0	1,260.0	3,540.0	12,600	35,400	126,000	354,000	1,260,000	3,540,000	12,600,000	35,400,000	126,000,000	354,000,000	1,260,000,000	3,540,000,000	12,600,000,000	
11.0	19.90	43.90	132.00	370.0	1,320.0	3,700.0	13,200	37,000	132,000	370,000	1,320,000	3,700,000	13,200,000	37,000,000	132,000,000	370,000,000	1,320,000,000	3,700,000,000	13,200,000,000	
11.5	20.80	45.80	138.00	386.0	1,380.0	3,860.0	13,800	38,600	138,000	386,000	1,380,000	3,860,000	13,800,000	38,600,000	138,000,000	386,000,000	1,380,000,000	3,860,000,000	13,800,000,000	
12.0	21.70	47.70	144.00	402.0	1,440.0	4,020.0	14,400	40,200	144,000	402,000	1,440,000	4,020,000	14,400,000	40,200,000	144,000,000	402,000,000	1,440,000,000	4,020,000,000	14,400,000,000	
12.5	22.60	49.60	150.00	418.0	1,500.0	4,180.0	15,000	41,800	150,000	418,000	1,500,000	4,180,000	15,000,000	41,800,000	150,000,000	418,000,000	1,500,000,000	4,180,000,000	15,000,000,000	
13.0	23.50	51.50	156.00	434.0	1,560.0	4,340.0	15,600	43,400	156,000	434,000	1,560,000	4,340,000	15,600,000	43,400,000	156,000,000	434,000,000	1,560,000,000	4,340,000,000	15,600,000,000	
13.5	24.40	53.40	162.00	450.0	1,620.0	4,500.0	16,200	45,000	162,000	450,000	1,620,000	4,500,000	16,200,000	45,000,000	162,000,000	450,000,000	1,620,000,000	4,500,000,000	16,200,000,000	
14.0	25.30	55.30	168.00	466.0	1,680.0	4,660.0	16,800	46,600	168,000	466,000	1,680,000	4,660,000	16,800,000	46,600,000	168,000,000	466,000,000	1,680,000,000	4,660,000,000	16,800,000,000	
14.5	26.20	57.20	174.00	482.0	1,740.0	4,820.0	17,400	48,200	174,000	482,000	1,740,000	4,820,000	17,400,000	48,200,000	174,000,000	482,000,000	1,740,000,000	4,820,000,000	17,400,000,000	
15.0	27.10	59.10	180.00	498.0	1,800.0	4,980.0	18,000	49,800	180,000	498,000	1,800,000	4,980,000	18,000,000	49,800,000	180,000,000	498,000,000	1,800,000,000	4,980,000,000	18,000,000,000	
15.5	28.00	61.00	186.00	514.0	1,860.0	5,140.0	18,600	51,400	186,000	514,000	1,860,000	5,140,000	18,600,000	51,400,000	186,000,000	514,000,000	1,860,000,000	5,140,000,000	18,600,000,000	
16.0	28.90	62.90	192.00	530.0	1,920.0	5,300.0	19,200	52,900	192,000	530,000	1,920,000	5,300,000	19,200,000	52,900,000	192,000,000	530,000,000	1,920,000,000	5,300,000,000	19,200,000,000	
16.5	29.80	64.80	198.00	546.0	1,980.0	5,460.0	19,800	54,600	198,000	546,000	1,980,000	5,460,000	19,800,000	54,600,000	198,000,000	546,000,000	1,980,000,000	5,460,000,000	19,800,000,000	
17.0	30.70	66.70	204.00	562.0	2,040.0	5,620.0	20,400	56,200	204,000	562,000	2,040,000	5,620,000	20,400,000	56,200,000	204,000,000	562,000,000	2,040,000,000	5,620,000,000	20,400,000,000	
17.5	31.60	68.60	210.00	578.0	2,100.0	5,780.0	21,000	58,600	210,000	578,000	2,100,000	5,780,000	21,000,000	58,600,000	210,000,000	578,000,000	2,100,000,000	5,780,000,000	21,000,000,000	
18.0	32.50	70.50	216.00	594.0	2,160.0	5,940.0	21,600	60,500	216,000	594,000	2,160,000	5,940,000	21,600,000	60,500,000	216,000,000	594,000,000	2,160,000,000	5,940,000,000	21,600,000,000	
18.5	33.40	72.40	222.00	610.0	2,220.0	6,100.0	22,200	62,400	222,000	610,000	2,220,000	6,100,000	22,200,000	62,400,000	222,000,000	610,000,000	2,220,000,000	6,100,000,000	22,200,000,000	
19.0	34.30	74.30	228.00	626.0	2,280.0	6,260.0	22,800	64,300	228,000	626,000	2,280,000	6,260,000	22,800,000	64,300,000	228,000,000	626,000,000	2,280,000,000	6,260,000,000	22,800,000,000	
19.5	35.20	76.20	234.00	642.0	2,340.0	6,420.0	23,400	66,200	234,000	642,000	2,340,000	6,420,000	23,400,000	66,200,000	234,000,000	642,000,000	2,340,000,000	6,420,000,000	23,400,000,000	
20.0	36.10	78.10	240.00	658.0	2,400.0	6,580.0	24,000	68,100	240,000	658,000	2,400,000	6,580,000	24,000,000	68,100,000	240,000,000	658,000,000	2,400,000,000	6,580,000,000	24,000,000,000	

WITHOUT USE OF OUTRIGGERS

- 1) Load ratings are the approved maximum lifting capacity of this machine with the specified air pressure of the tires on a firm and level ground, and exclude weight of hook block (s) and other load handling accessories.

Kind of hook	4.0 ton	1.4 ton
Weight	27 kg (59.7 lbs)	23 kg (55.1 lbs)

Rated lifting capacity chart

Lifting over front only	
Boom length	5.1m to 9.4m
Operating radius	5.6m maximum
Rated lifting capacity	1.0 ton

- 2) Since the operating radius given in the chart includes allowances for boom boom deflection, the machine must be always operated on the basis of the actual operating radius.
 3) Over side lifting can not be done. Do work by the over front only.

Air pressure of tire (bar/mm)

Size of tire	Front Wheel	Rear Wheel
10.0R20-14PR	6.75	6.75
16.00R20-14PR	7.25	7.25
275/80R22.5	8.25	8.25
13/80R20	6.40	6.40



- 4) Neither of boom operation and free fall operation should be done.
 5) When performing stationary lifting, be sure to engage the parking brake (and auxiliary banks for work).
 6) When performing picking and carrying operation, be sure to place the high speed/low speed selector switch in the ON (low range) position.
 7) When performing picking and carrying a load, hold the load near the ground, and travel within **[2m (1.24 miles) per hour of speed]** not to allow the load to be swinging. Especially be careful for cornering, sudden start and sudden stop.
 8) Do not perform any crane operation while travelling with a load suspended.

WITH USE OF OUTRIGGERS

- 1.) Load ratings do not exceed 70 percent of digging load with the machine set horizontally on a firm and level ground, and include weight of hook block(s) and other load handling accessories.

Ratings in [] area are based on the machine's structural strength, and others are determined by the machine availability.

Kind of hook	[2] ton	[1.4] ton
Weight	[20] kgs (44.0 lbs)	[28] kgs (61.3 lbs)

- 2.) Since the operating radius given in the chart includes allowances for hidden boom deflection, the machine must be always operated on the basis of the actual operating radius.
- 3.) The outrigger maximum extended width is 4.4 meters (14.4ft), and the full-point extended widths are 3.6 meters (11.8ft) and 2.7 meters (8.8ft).
- 4.) Ratings in Over Side vary according to the outrigger extended condition. Therefore, operation must be based on the rating chart corresponding to each outrigger extending condition.
- 5.) When the boom length exceeds the specified length shown in the rating chart, operation must be performed basing on the smaller rating of the specified boom length or the next longer boom length above.
- 6.) Ratings with the use of the auxiliary sheave are the same as the ratings with the boom less 70kgs (154.3lbs), but should not exceed 1400kgs (3080.5lbs).
- 7.) Free falling operation shall be, as a rule, used when lowering the hook block only. When it is required to free fall a load, the load should not exceed one fifth of the rated load, and sudden brake must be absolutely avoided.

Standard number of pieces of hook block

Boom Length	Used hook	Number of parts
6.19m	7ton hook	4
8.35m	7ton hook	4
11.55m	7ton hook	4
16.39m	7ton hook	4
21.21m	7ton hook	4

[2] RATING CAPACITY CHART WITH USE OF OUTRIGGERS

WITHOUT USE OF SUPPORT BLOCKS

- Load ratings are the approved maximum lifting capacity of this machine with the specified air pressure of the tires on a firm and level ground, and include weight of hook block (10) and other load handling accessories.

Kind of hook	<input checked="" type="checkbox"/> ton	<input checked="" type="checkbox"/> 3.0 ton
Weight	<input checked="" type="checkbox"/> 76 kg (170 lbs)	<input checked="" type="checkbox"/> 25 kg (55 lbs)

Rated lifting capacities chart

Lifting over front only	
Boom length	<input checked="" type="checkbox"/> 6.1m to 8.4m
Operating angles	<input checked="" type="checkbox"/> 5° or maximum
Rated lifting capacity	<input checked="" type="checkbox"/> 1.0 ton

- Since the operating radius given in the chart includes allowances for laden boom deflections, the machine must be always operated on the basis of the actual operating radius.
- Over side lifting cannot be done. Do work by the over front only.

Cover Front



Air pressure of tire (kg/cm²)

Size of tire	Front wheel	Rear wheel
10.00-20-NPR	<input checked="" type="checkbox"/> 6.75	<input checked="" type="checkbox"/> 6.75
10.00R20-NPR	<input checked="" type="checkbox"/> 7.25	<input checked="" type="checkbox"/> 7.25
270/80R22.5	<input checked="" type="checkbox"/> 6.25	<input checked="" type="checkbox"/> 6.25
13/80R20	<input checked="" type="checkbox"/> 6.00	<input checked="" type="checkbox"/> 6.00

- Neither of boom operation and free fall operation should be done.
- When performing stationary lifting, be sure to engage the parking brake (and auxiliary brakes for work).
- When performing slewing and carrying operation, be sure to place the high speed/low speed selector switch in the ON (low range) position.
- When performing picking and carrying a load, hold the load near the ground, and travel within 2km (1.24 miles) per hour of speed set to allow the load to be swinging. Especially be careful for cornering, sudden start and sudden stop.
- Do not perform any crane operation while traveling with a load suspended.

WITHOUT USE OF OUTRIGGERS

- 1) Load ratings are the approved maximum lifting capacity of this machine with the specified air pressure of the tires on a firm and level ground, and include weight of hook block (B) and other load handling accessories.

Hook block	17 lbs	14 lbs
Weight	26 lbs (11.8 kg)	23 lbs (10.5 kg)

Rated lifting capacity chart

	Lifting over front only
Boom length	6.3 to 8.4m
Operating radius	5.0m maximum
Rated lifting capacity	1.9 ton

Air pressure of tire (kg/cm²)

Size of tire	Front wheel	Rear wheel
10.0R20 MPR	6.76	6.76
10.00R20-14PR	7.26	7.26
275/60R22.5	6.25	6.25
13.00R20	6.00	6.00



- 4) Neither of boom operation and free fall operation should be done.
- 5) When performing stationary lifting, be sure to engage the parking brake (and auxiliary brakes for work).
- 6) When performing picking and carrying operation, be sure to place the high speed/low speed selector switch in the ON (low range) position.
- 7) When performing picking and carrying a load, hold the load near the ground, and travel within [2m (1.24 miles) per hour of speed] not to allow the load to be swinging. Especially be careful for cornering, sudden start and sudden stop.
- 8) Do not perform any crane operation while traveling with a load suspended.