

**NCK-  
RAPIER**

**1495B**

**CRAWLER  
CRANE** ★



Manufactured under  
licence from  
Koehring Company



**NCK-RAPIER**  
A Newton Chambers Company

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# NCK-RAPIER

# 1495

## CRAWLER CRANE

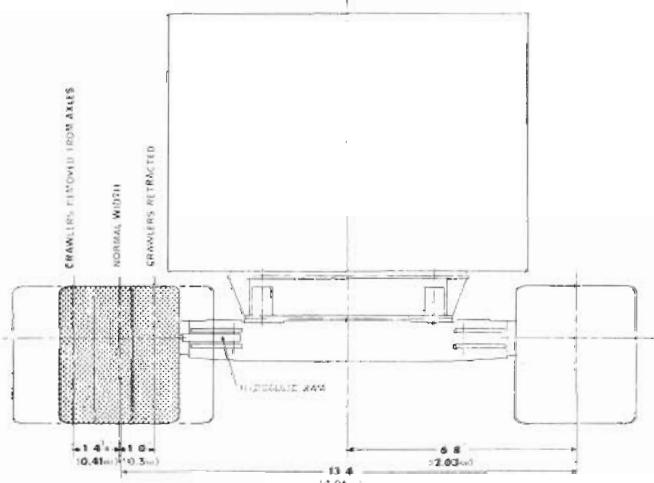
*Manufactured under licence from Koehring Company*



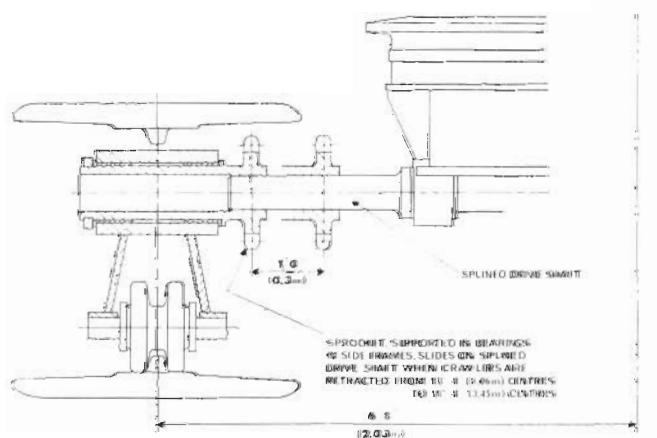
# Hydraulic widening, retracting or removal of crawlers

The NCK-RAPIER 1495B normally operates with crawlers at 13ft. 4in. (4.06 m.) centres. To enable the crane to operate in confined spaces they can be retracted to 11ft. 4in. (3.45 m) centres. Normally the crawler frames are held in position by links. These are easily dis-

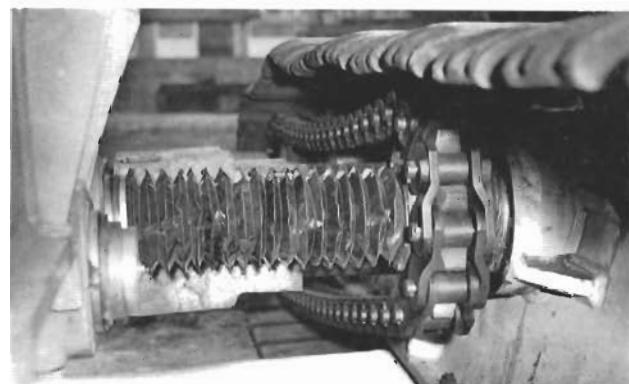
connected and double acting hydraulic cylinders are pinned into position to retract, extend or remove the crawlers. Each crawler assembly with its crawler belt and chain drive is removed as a complete unit. The adjustment of the belt and chain drive is not affected.



SECTION WITH HYDRAULIC CYLINDER REMOVED SHOWING LINK



Removing the main pin for widening the crawlers.



Crawlers extended by hydraulic ram and splined drive shaft protected by bellows.



Crawlers at maximum working width with link in position.

# SPECIFICATION

# Heavy Duty Liftcrane

**POWER:** Diesel engine developing 328 b.h.p. at 2,000 r.p.m. full load speed. Nett input to Clark single stage torque convertor is 288 b.h.p. at 2,000 r.p.m. 24 volt electric starting equipment is standard with tropical radiator and all ancillary equipment. A foot accelerator is provided for crane duty and the torque convertor incorporates an overspeed device.

**GRADES:** Machine will climb a 1 in  $3\frac{1}{2}$  grade (30%).

**TURNTABLE:** A welded structure built up from steel castings and structural steel. The sidestands and bearings which support the horizontal shafts are an integral part of the turntable fabrication. All the horizontal and vertical shaft bearings are jig bored and remain in true alignment for the life of the machine. Revolving on six turntable rollers with six adjustable hook rollers.

**CRAWLERS:** The cast steel smooth faced totally enclosed crawler shoes are available in two widths. The NCK-RAPIER design of the crawler drive automatically sheds dirt and stones. The heavy cast welded carbody is secured to the two cast steel axles by four alloy steel corner studs. The axles have circular ends which fit in the circular housings in the crawler side frames, these incorporate rustproof sleeves to ensure easy removal. The crawler side frames are equipped with lower traction drive sprockets, which are connected to the crawler drive countershaft on the carbody through sliding splines. This design permits the removal of the complete crawler side frames from the axles without disconnecting either the crawler drive chains or crawler belt. Stripping down for transport is simple involving the removal of only four securing pins.

**HYDRAULIC CRAWLER WIDENING:** For operation in confined spaces the crawler width may be reduced by retracting the crawler side frames by hydraulic power. A hydraulic pump is driven from the main diesel engine. The remaining equipment—hydraulic control valve, two double-acting hydraulic rams with attaching pins and piping—is normally stored in the cab. When it is necessary to alter the crawler widths the rams are pinned in position; they have sufficient power to function under average ground conditions.

**BOOMS:** The standard boom is pin jointed and incorporates high tensile steel chords. The basic length of 60ft. (18,3 m.) can be extended by inserts to a maximum length of 210ft. (64 m.). The boom point is fitted with four large diameter head sheaves mounted on anti-frictional bearings which permits reeving the load block with 3 or 4 part lines. For loads requiring more falls of rope a sheave block is attached to pendulum links at the boom point. This eliminates the necessity for multiple sheaves at the boom point.  
A 40ft. (12,2 m.) fly jib can be fitted on main booms up to 190ft. (58 m.).

A 40ft. (12.2 m.) jib can be fitted on main booms up to 190ft. (58 m.).

**STEERING:** Air controlled by means of two levers with finger-tip control. Can turn right or left while travelling forward or backward. Wear on parts and losses of power due to friction are at a minimum. Can readily steer on a slope as well as on level.

**OPERATION:** Air control valves for main and auxiliary operations mounted on a centralised console. The console itself is designed for maximum operator efficiency giving improved visibility and with valves arranged to minimise the amount of hand movement. Controls include swing, hoist, crowd, dipper trip, forward/reverse travel clutches. All engine instruments are also mounted on console. Boom hoist brake and boom hoist pawl are mechanically operated. Main drum brakes are mechanically operated with air assistance.

**CLUTCHES:** Main drum, boom hoist and retract clutches are inside band type. Swing and traction clutches are 2-shoe, internal-expanding type. All clutches are air operated, equipped with air chambers and quick-release valve to ensure positive engagement and release of clutch.

**POWER BOOM LOWERING:** An automatic self-energising internal expanding clutch controls the lowering of the boom by engine power and is standard equipment.

**POWER LOAD LOWERING:** Two independent planetary type clutch units to give power controlled lowering of the main load hook and fly jib hook are available as optional extras.

**TRACTION BRAKES:** Two external contracting friction brakes are provided, one for each crawler. These traction brakes are provided with a safety feature which permits the brake to be applied without disengaging the steering jaw clutch. Brakes are spring set with air power release. This enables the machine to work safely on gradients and prevent movement of machine toward drag bucket or away from faceshovel bucket. Traction brakes are released by air and steering is air controlled.

**SHAFTS:** All shafts are of large diameter and made from high carbon or alloy steels, heat treated for maximum strength. Power is transmitted through accurately machined involute splines, which combine highly efficient operation with quick replacement of worn parts, with a consequent saving in fitting time. All high-speed shafts run on ball or roller bearings.

**SAFE LOAD INDICATORS:** An audible and visible safe load indicator is available for use with liftcranes.

**BOOM SUSPENSION:** A rear mounted "A" Frame with mast type pendant boom suspension is standard. For booms up to 150ft. (45.7 m.) a 14 part boom hoist rope is used to the mast head. For booms of 160ft. (49.8 m.) and over 12 parts of boom hoist are reeved to the mast head with 2 parts reeved to the center of the boom.

## Drum Lagging capacities

Location	Application	Diameter		Width		Type	Effective Capacity 1st Layer		Maximum Effective Capacity to B.S. 1757	No. of Layers	Rope Size Diameter	
		in.	mm.	in.	mm.		ft.	m.	ft.	m.	mm.	
R.H.	Crane Main—Hoist (PLL)	27½	698	14¼	362	Grooved	68	20.7	440	134.1	5	30
L.H.	Crane Fly Jib—Hoist (PLL)	27½	698	8	203	Grooved	26	7.9	245	74.7	5	30
R.H.	Crane Main—Hoist (No PLL) Grab Closing	30	762	19½	495	Grooved	100	30.5	518	157.9	4	30
L.H.	Crane Fly Jib—Hoist (No PLL)	30	762	13½	343	Grooved	65	19.8	354	107.9	4	30
—	Boom Hoist	11½	300	12	305	Grooved	37	11.3	450	137.2	7	20
—	Third Drum	16½	419	9½	232	Grooved	42	12.8	156	47.5	3	19

# TECHNICAL DATA

## Crawler Data

Item	Distance C. to C. Tumblers	Width Frame C. to C. Girders	Length Over Crawlers	Width Over Crawlers	Width of Shoe	Pitch	No. of Shoes	Flat Bearing Surface
1	ft. in. m.	ft. in. m.	ft. in. m.	ft. in. m.	in. m.	in. m.	96	sq. ft. 135 sq. m. 12,5
2	18 10 5,74	13 4 4,06	22 6 6,86	16 10 5,13	42 1,07	12 0,3	96	154 14,3

When crawler frames are retracted, width over crawlers is reduced by 2ft. (0,61 m.).  
Width Item 1 is reduced to 14ft. (4,37 m.) and Item 2 is reduced to 15ft. 4in. (4,67 m.).

### GENERAL DATA

Tailradius	16ft. 3in.	4,95 m.
Height over "A" frame	18ft. 9in.	5,72 m.
Tailradius "A" frame	15ft. 11in.	4,85 m.
Ground clearance	1ft. 4in.	0,41 m.
Centre of Rotation to Centre of Boom foot	4ft. 3in.	1,30 m.
Height of Boom foot from ground	7ft. 8in.	2,34 m.
Width of Cab (maximum)	10ft. 11in.	3,33 m.
Length of Cab (maximum)	19ft. 3in.	5,87 m.
Height of Cab inside (max.)	7ft. 7in.	2,31 m.
Travel Speed	0·61 m.p.h.	0,98 km./hr.
Rotating Speed	2·44 r.p.m.	2,44 r.p.m.
Counterweight	50,400 lb.	22 860 kg.
Fuel Tank Capacity	180 gallons	815 litres

### CLUTCHES

Main Drum	48in. x 7in.	1219 x 178 mm.
Swing and Traction	38in. x 8in.	965 x 203 mm.
Boom Hoist	20in. x 3in.	508 x 76 mm.
Power Boom Lowering	20in. x 3in.	508 x 76 mm.
All Internal Expanding Type.		

### BRAKES

Main Drum	56in. x 6in.	1422 x 152 mm.
Boom Hoist	21½in. x 3in.	543 x 76 mm.
Swing	36in. x 4in.	914 x 102 mm.
Traction	28in. x 3½in.	711 x 89 mm.
Power Load Lowering	30in. x 5in.	762 x 127 mm.
All External Contracting Type.		

### WEIGHT

Complete Crane, 42in. shoes and 180ft. Boom.	238,000 lb.	108 000 kg.
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### LIFTCRANE

Capacities and Boom lengths, refer to chart.

### Main Hoist and Fly Jib Hoist with Gravity Load Lowering:

Hoist Rope Speed (Single part rope)	175 ft./min.	53,4 m./min.
Hoist Rope Pull (Single part rope)	41,700 lb.	19 000 kg.
Hoist Drum	85,000 lb. at stall	38 600 kg. at stall
	30in. P.C.D.	762 mm. P.C.D.

### Main Hoist and Fly Jib Hoist Planetary Power Load Lowering:

Hoist Rope Speed (Single part rope)	160·8 ft./min.	20,4 m./min.
Hoist Rope Pull (Single part rope)	45,500 lb.	20 650 kg.
Lowering Speed (Single part rope)	92,800 lb. at stall	42 200 kg. at stall
Hoist Drum	31·7 ft./min.	9,7 m./min.
Boom Point Sheaves	27½in. P.C.D.	698 mm. P.C.D.
Weight of Hooks:	30in. P.C.D.	762 mm. P.C.D.
100 tons	4,030 lb.	1 830 kg.
70 tons	3,900 lb.	1 770 kg.
55 tons	1,950 lb.	880 kg.
30 tons	1,500 lb.	680 kg.
20 tons	1,200 lb.	540 kg.
10 tons	450 lb.	200 kg.
Pendant Boom	1½in. dia.	38 mm. dia.
Suspension Ropes		

## Rope Safety factors

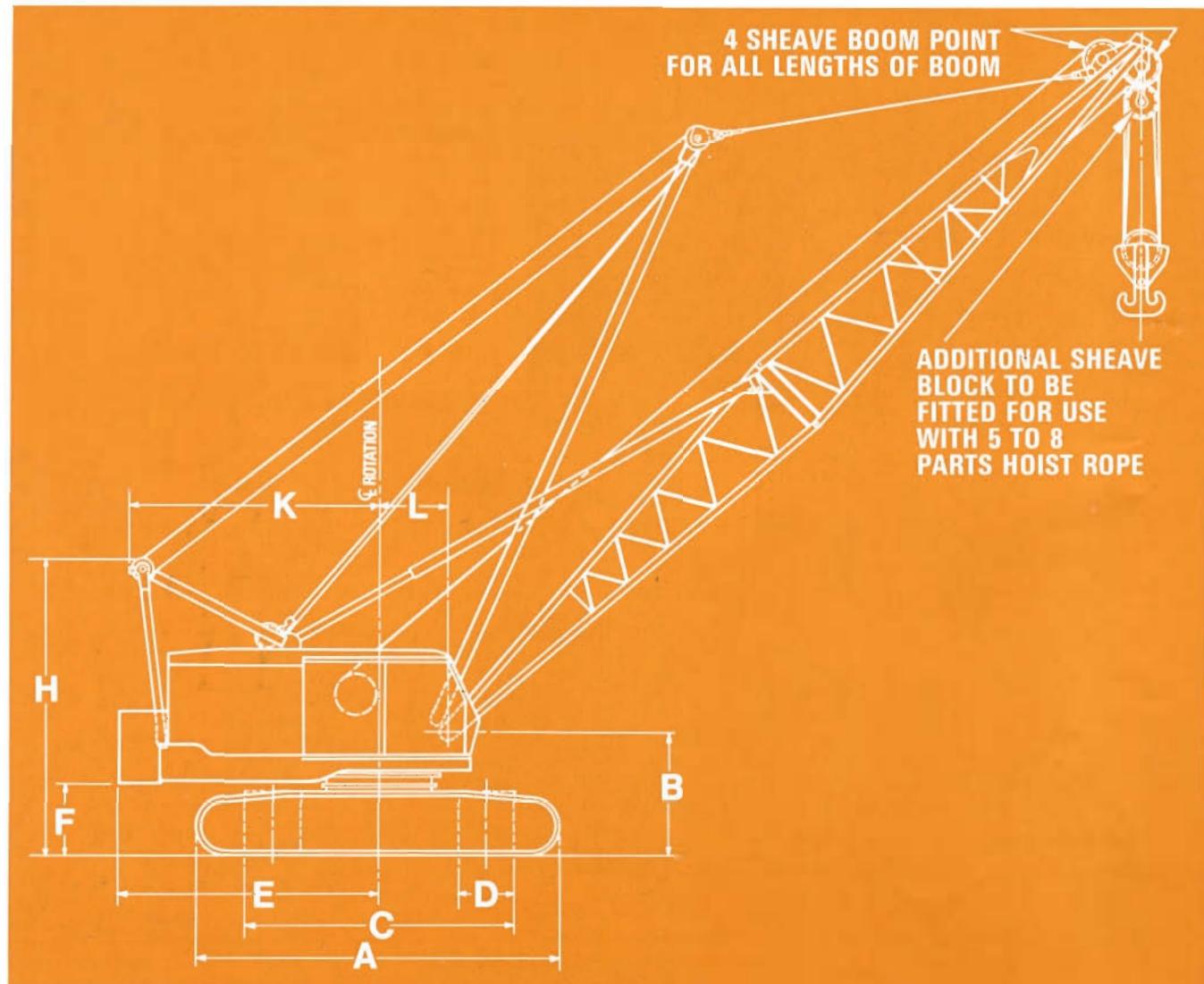
Factors of Safety	B.S.S. 1757	75% Rating			Falls of hoist rope and Factors of Safety are based on maximum working loads at minimum radii. At greater radii Factors of Safety increase.
		4·5·1	5·0·1	5·5·1	
Boom Length	Number of Falls of Hoist Rope				
60ft. 18,3 m.	9	8	9	9	
70ft. 21,3 m.	6	6	7	7	
80ft. 24,4 m.	5	5	6	6	
90ft. 27,4 m.	5	5	5	5	
100ft. 30,5 m.	4	4	4	5	
110ft. 33,5 m.	4	4	4	5	
120ft. 36,6 m.	3	3	4	4	
130ft. 39,6 m.	3	3	3	4	
140ft. 42,7 m.	3	3	3	3	
150ft. 45,7 m.	2	3	3	3	
160ft. 48,8 m.	2	2	3	3	
170ft. 51,8 m.	2	2	2	3	
180ft. 54,9 m.	2	2	2	2	
190ft. 57,9 m.	2	2	2	2	
200ft. 61,0 m.	2	2	2	2	
210ft. 64,0 m.	2	2	2	2	



# NCK-RAPIER

**1495**

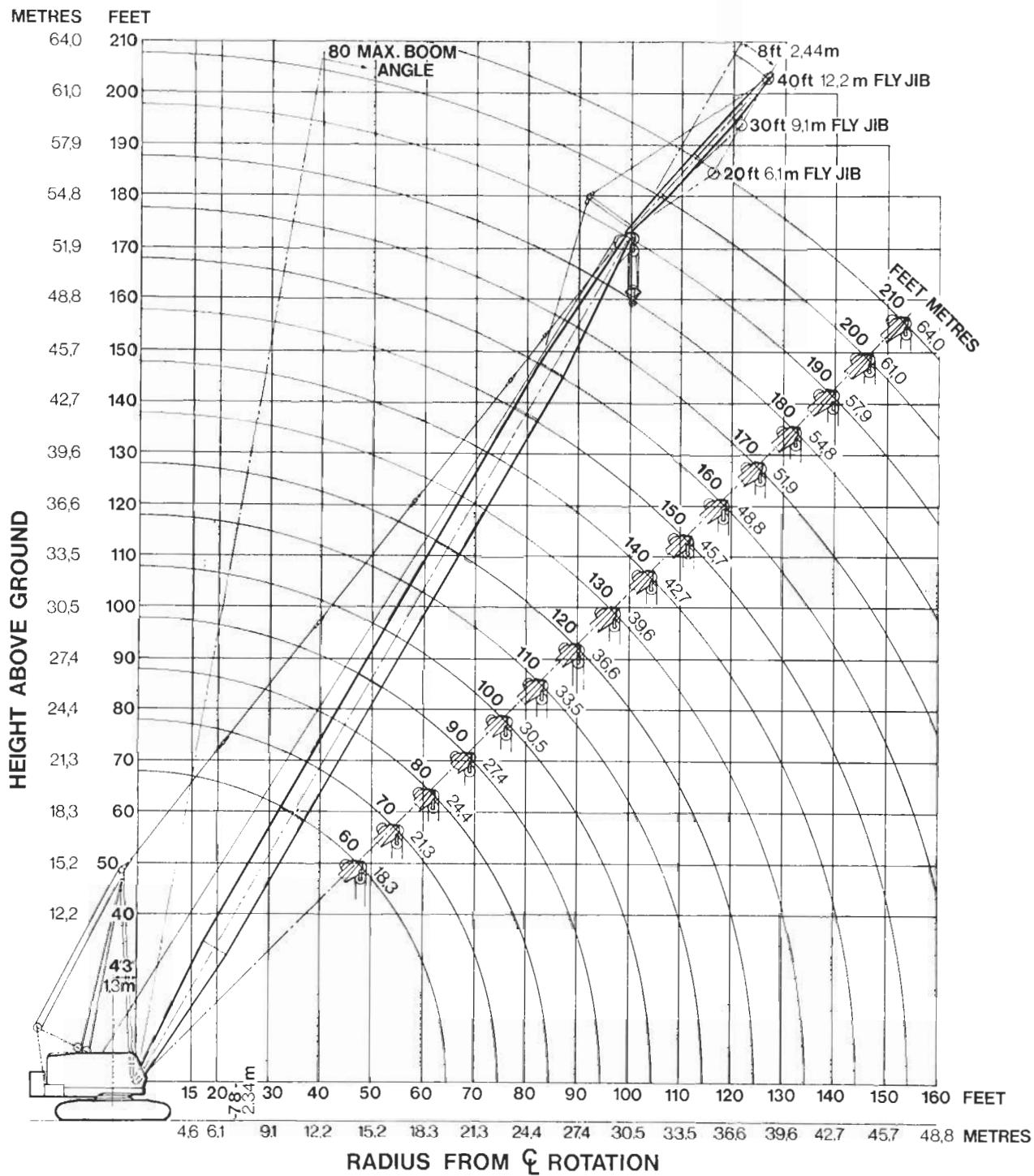
CRAWLER  
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	ft.	in.	m.
<b>A</b> Overall length Std. Crawlers	22	6	6.86
<b>B</b> Boom Foot centre above ground	7	8	2.34
<b>C</b> Overall width—Crawlers extended with 42in. shoes	16	10	5.13
Overall width—Crawlers extended with 48in. shoes	17	4	5.28
Overall width—Crawlers retracted with 42in. shoes	14	10	4.52
Overall width—Crawlers retracted with 48in. shoes	15	4	4.67
<b>D</b> Width of shoes	3	6	1.07
Width of shoes	4	0	1.22
<b>E</b> Tail radius over counterweight	16	3	4.95
<b>F</b> Clearance under counterweight	4	5	1.35
<b>H</b> Height of "A" frame	18	8	5.69
<b>K</b> Tail radius over "A" frame	15	11	4.85
<b>L</b> Distance C.L. Boom Foot to C.L. rotation	4	3	1.29

# RADIUS DIAGRAM

7



Maximum length of Main Boom is 210ft. (64 m.).

Maximum length of Fly Jib 40ft. (12.2 m.). Maximum length of Main Boom with Fly Jib fitted is 190ft. (57.9 m.).

**Main Boom Loads:** Chart loads are gross loads. Allowances must be made for the weight of suspended Hook Blocks, Slings, etc., when calculating nett working loads.

When a Fly Jib is fitted the weight of all suspended Hook Blocks, Slings, etc., must be deducted when calculating nett working loads. The Main Boom loads must be further reduced by the following loads when a Fly Jib is fitted:

20ft. (6.1 m.) Fly Jib reduce 1,850 lb. (840 kg.).

30ft. (9.1 m.) Fly Jib reduce 2,230 lb. (1 010 kg.).

40ft. (12.2 m.) Fly Jib reduce 2,610 lb. (1 180 kg.).

**Fly Jib Loads:** Fly Jib gross loads are the same as Main Boom gross chart loads at any given radius, but must not exceed rated capacity of Fly Jib. Maximum Fly Jib Capacity 22,400 lb. (10 160 kg.). Weight of all suspended Hook Blocks must be deducted when calculating nett working loads. Fly Jib must not be used for Dragline or Grabcrane duties.

**Fly Jib Offset:** Regardless of Fly Jib length, the Offset must not exceed or be less than 8ft. (2.44 m.).

**Weight of Hook Blocks:**

100 ton (101 600 kg.)—4,030 lb. (1 830 kg.).

70 ton (71 120 kg.)—3,900 lb. (1 770 kg.).

55 ton (55 880 kg.)—1,950 lb. (880 kg.).

30 ton (30 480 kg.)—1,500 lb. (680 kg.).

20 ton (20 320 kg.)—1,200 lb. (540 kg.).

10 ton (10 160 kg.)—450 lb. (200 kg.).

# Lifting capacities

English and Metric

**NCK-  
RAPIER**

**1495**  
**Tonnes**

**CRAWLER  
CRANE**

Length of Boom	Load Radius	Angle of Boom	GROSS WORKING LOAD					
			CRAWLERS EXTENDED OVERALL WIDTH OF 16ft. 10in. (5,13 m.) OR MORE					
			B.S.S. 1757:1964 Rating			75% Rating		
ft. m.	ft. m.	degrees	Tons	lb.	kg.	lb.	kg.	
<b>60 18,3</b>	14 4,27	82	100	224,000	101 600	224,000	101 600	
	15 4,6	80	89·7	201,000	91 170	201,000	91 170	
	20 6,1	76	58·4	130,650	59 260	130,650	59 260	
	25 7,6	71	42·7	95,650	43 380	95,650	43 380	
	30 9,1	65	32·1	71,980	32 640	71,980	32 640	
	35 10,7	60	25·9	58,040	26 320	58,040	26 320	
	40 12,2	54	21·7	48,770	22 120	48,770	22 120	
<b>70 21,3</b>	50 15,2	41	16·0	36,000	16 320	36,000	16 320	
	17 5,2	80	74·1	166,000	75 290	166,000	75 290	
	20 6,1	78	58·2	130,180	59 040	130,180	59 040	
	25 7,6	74	42·5	95,260	43 200	95,260	43 200	
	30 9,1	69	31·8	71,400	32 380	71,400	32 380	
	35 10,7	65	25·6	57,520	26 090	57,520	26 090	
	40 12,2	60	21·5	48,300	21 900	48,300	21 900	
<b>80 24,4</b>	50 15,2	50	15·9	35,650	16 170	35,650	16 170	
	60 18,3	38	12·4	27,800	12 600	27,800	12 600	
	19 5,8	80	61·6	138,000	62 590	138,000	62 590	
	20 6,1	79	58·0	129,760	58 850	129,760	58 850	
	25 7,6	76	42·3	94,870	43 030	94,870	43 030	
	30 9,1	72	31·6	71,040	32 220	71,040	32 220	
	35 10,7	68	25·4	56,900	25 800	56,900	25 800	
<b>90 27,4</b>	40 12,2	64	21·2	47,650	21 610	47,650	21 610	
	50 15,2	56	15·6	35,000	15 870	35,000	15 870	
	60 18,3	47	12·1	27,210	12 340	27,210	12 340	
	70 21,3	36	8·9	20,000	9 070	21,720	9 850	
	21 6,4	80	54·3	121,600	55 150	121,600	55 150	
	25 7,6	77	42·1	94,500	42 860	94,500	42 860	
	30 9,1	74	31·5	70,680	32 050	70,680	32 050	
<b>100 30,5</b>	35 10,7	71	25·2	56,590	25 660	56,590	25 660	
	40 12,2	67	21·1	47,360	21 480	47,360	21 480	
	50 15,2	60	15·4	34,590	15 680	34,590	15 680	
	60 18,3	52	11·9	26,800	12 150	26,820	12 160	
	70 21,3	44	8·7	19,350	8 770	21,240	9 630	
	80 24,4	41	6·8	15,210	6 890	17,110	7 760	
	90 27,4	32	5·5	12,400	5 620	13,960	6 330	
<b>110 33,5</b>	23 7,0	80	47·7	107,000	48 530	107,000	48 530	
	25 7,6	79	41·9	93,780	42 530	93,780	42 530	
	30 9,1	76	31·3	70,230	31 850	70,230	31 850	
	35 10,7	73	25·0	56,070	25 430	56,070	25 430	
	40 12,2	70	21·0	47,000	21 310	47,000	21 310	
	50 15,2	63	15·2	34,170	15 490	34,170	15 490	
	60 18,3	57	11·6	26,000	11 790	26,240	11 900	
<b>120 36,6</b>	70 21,3	49	8·3	18,600	8 430	20,760	9 410	
	80 24,4	41	6·8	15,210	6 890	17,110	7 760	
	90 27,4	39	5·3	11,940	5 410	13,450	6 100	
	100 30,5	30	4·4	9,960	4 510	11,210	5 080	
	26 7,9	80	43·3	97,000	43 990	99,200	44 990	
	30 9,1	78	30·6	92,860	42 120	92,680	42 120	
	35 10,7	76	24·6	69,440	31 490	69,440	31 490	
<b>130 39,6</b>	40 12,2	73	20·3	55,040	24 960	55,040	24 960	
	50 15,2	68	14·7	45,620	20 690	45,620	20 690	
	60 18,3	63	10·9	32,990	14 960	32,990	14 960	
	70 21,3	57	7·8	24,500	11 110	25,130	11 390	
	80 24,4	51	6·3	17,560	7 960	19,760	8 960	
	90 27,4	45	5·1	11,420	5 180	12,860	5 830	
	100 30,5	38	4·2	9,400	4 260	10,580	4 790	



# Lifting capacities

English and Metric

**NCK-RAPIER**

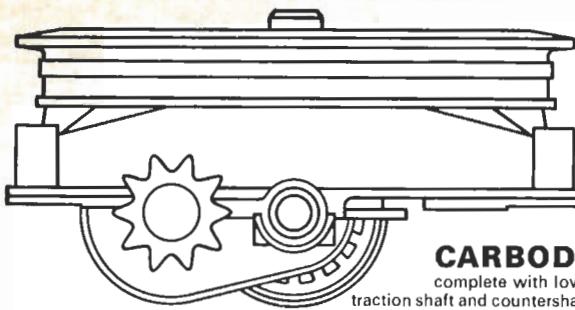
**1495<sub>b</sub>**

**CRAWLER CRANE**

Length of Boom  ft. m.	Load Radius  ft. m.	Angle of Boom  degrees	GROSS WORKING LOAD				
			CRAWLERS RETRACTED OVERALL WIDTH OF 15ft. 4in. (4,67 m.) OR LESS				
			B.S.S. 1757:1964 Rating			75% Rating	
ft. m.	ft. m.	degrees	Tons	lb.	kg.	lb.	kg.
<b>60 18,3</b>	14 4,27	82	77.3	173,000	78 470	173,000	78 470
	15 4,6	80	72.2	161,800	73 390	161,800	73 390
	20 6,1	76	49.2	109,900	49 840	109,900	49 840
	25 7,6	71	36.7	82,170	37 270	82,170	37 270
	30 9,1	65	27.7	62,100	28 160	62,100	28 160
	35 10,7	60	22.5	50,440	22 870	50,440	22 870
	40 12,2	54	19.0	42,600	19 320	42,600	19 320
<b>70 21,3</b>	50 15,2	41	14.0	31,450	14 260	31,450	14 260
	17 5,2	80	57.3	128,500	58 280	128,500	58 280
	20 6,1	78	48.9	109,200	49 530	109,200	49 530
	25 7,6	74	36.5	81,780	37 090	81,780	37 090
	30 9,1	69	27.5	61,700	27 980	61,700	27 980
	35 10,7	65	22.3	49,920	22 640	49,920	22 640
	40 12,2	60	18.8	42,150	19 110	42,150	19 110
<b>80 24,4</b>	50 15,2	50	13.9	31,150	14 120	31,150	14 120
	60 18,3	38	10.4	23,330	10 580	24,200	10 970
	19 5,8	80	51.3	115,000	52 160	115,000	52 160
	20 6,1	79	48.7	108,900	49 390	108,900	49 390
	25 7,6	76	36.3	81,390	36 910	81,390	36 910
	30 9,1	72	27.3	61,300	27 800	61,300	27 800
	35 10,7	68	22.0	49,300	22 360	49,300	22 360
<b>90 27,4</b>	40 12,2	64	18.5	41,600	18 860	41,600	18 860
	50 15,2	56	13.5	30,400	13 780	30,400	13 780
	60 18,3	47	10.0	22,580	10 240	23,650	10 720
	70 21,3	36	7.4	16,720	7 580	18,800	8 520
	21 6,4	80	45.7	102,500	46 490	102,500	46 490
	25 7,6	77	36.2	81,020	36 750	81,020	36 750
	30 9,1	74	27.2	61,000	27 660	61,000	27 660
<b>100 30,5</b>	35 10,7	71	21.8	48,990	22 220	48,990	22 220
	40 12,2	67	18.3	41,100	18 640	41,100	18 640
	50 15,2	60	13.4	30,050	13 630	30,050	13 630
	60 18,3	52	9.8	22,080	10 010	23,250	10 540
	70 21,3	44	7.2	16,300	7 390	18,330	8 310
	80 24,4	33	6.0	13,580	6 150	15,260	6 920
	23 7,0	80	41.0	92,000	41 730	92,000	41 730
<b>110 33,5</b>	25 7,6	79	35.8	80,300	36 420	80,300	36 420
	30 9,1	76	27.0	60,500	27 440	60,500	27 440
	35 10,7	73	21.6	48,470	21 980	48,470	21 980
	40 12,2	70	18.2	40,800	18 500	40,800	18 500
	50 15,2	63	13.2	29,580	13 410	29,580	13 410
	60 18,3	57	9.5	21,280	9 650	22,680	10 280
	70 21,3	49	7.0	15,830	7 180	17,810	8 070
<b>120 36,6</b>	80 24,4	41	5.8	12,980	5 880	14,610	6 620
	90 27,4	39	4.5	10,100	4 580	11,340	5 140
	90 27,4	39	4.5	10,100	4 580	11,340	5 140
	90 27,4	39	4.5	10,100	4 580	11,340	5 140
	90 27,4	39	4.5	10,100	4 580	11,340	5 140
	100 30,5	32	4.7	10,540	4 780	11,860	5 370
	100 30,5	32	4.7	10,540	4 780	11,860	5 370
<b>130 39,6</b>	24 7,3	80	37.8	84,700	38 410	84,700	38 410
	25 7,6	79	35.4	79,380	36 000	79,380	36 000
	30 9,1	77	26.6	59,700	27 070	59,700	27 070
	35 10,7	74	21.4	47,950	21 740	47,950	21 740
	40 12,2	71	17.9	40,100	18 180	40,100	18 180
	50 15,2	66	12.9	29,000	13 150	29,000	13 150
	60 18,3	60	9.2	20,660	9 370	22,230	10 090



# WEIGHTS OF MAJOR COMPONENTS



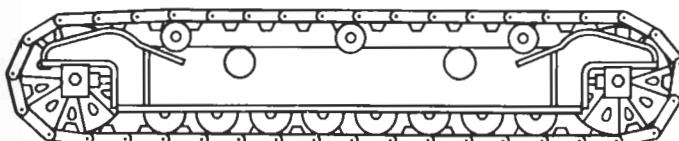
## CARBODY

complete with lower traction shaft and countershafts  
15,300 lb. 6 940 kg.



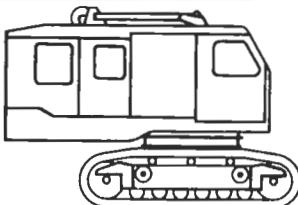
## CRAWLER AXLES

EACH 7,830 lb. 3 550 kg.  
PAIR 15,660 lb. 7 100 kg.



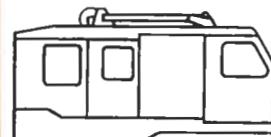
## CRAWLER ASSEMBLIES

	EACH	PAIR
42in. Shoes:	28,000 lb. 12 700 kg.	56,000 lb. 25 400 kg.
48in. Shoes	29,000 lb. 13 150 kg.	58,000 lb. 26 300 kg.



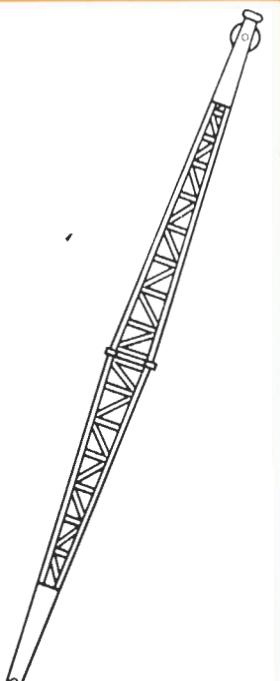
## BASE MACHINE

No external counterweight  
42in. Shoes:  
155,360 lb. 70 470 kg.  
48in. Shoes:  
157,360 lb. 71 380 kg.



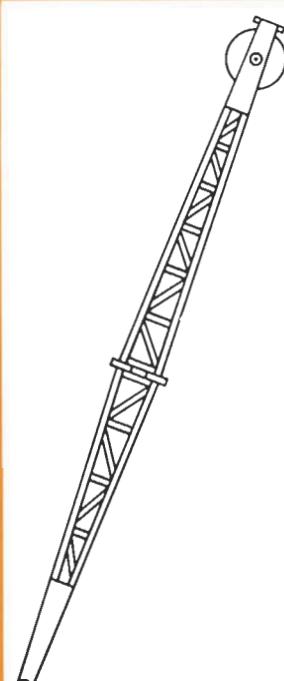
## UPPER UNIT

No counterweight  
68,400 lb. 31 025 kg.



## BASIC BOOM 60ft. 18,3 m.

9,300 lb. 4 220 kg.

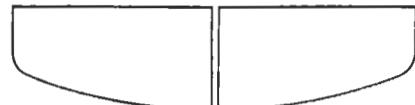


## FLY JIBS

20ft. (6,1 m.) 1,350 lb. 610 kg.  
30ft. (9,1 m.) 1,700 lb. 770 kg.  
40ft. (12,2 m.) 2,050 lb. 930 kg.

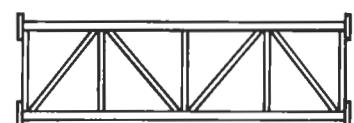
## COUNTERWEIGHT

External: 50,400 lb. 22 860 kg.



## INSERTS

10ft. (3,05 m.) 1,073 lb. 490 kg.  
20ft. (6,1 m.) 1,790 lb. 810 kg.  
30ft. (9,1 m.) 2,504 lb. 1 140 kg.



## OTHER EQUIPMENT

Hook blocks	100 tons	4,030 lb.	1 830 kg.
	70 tons	3,900 lb.	1 770 kg.
	55 tons	1,950 lb.	880 kg.
	30 tons	1,500 lb.	680 kg.
	20 tons	1,200 lb.	540 kg.
	10 tons	450 lb.	200 kg.
Telescopic Boom Backstops	870 lb.		395 kg.
Mast	4,550 lb.		2 065 kg.
Rear "A" Frame	2,700 lb.		1 225 kg.
2 x Basic Pendants	545 lb.		250 kg.
2 x 10ft. pendants	400 lb.		180 kg.
2 x 20ft. pendants	530 lb.		240 kg.
2 x 30ft. pendants	580 lb.		260 kg.

In accordance with our established policy of constant improvement we reserve the right to amend these specifications at any time without notice.

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DISTRIBUTORS FOR  
**NCK-RAPIER**  
**Limited**