



**NCK-
RAPIER**

1495B

**CRAWLER
CRANE** ★



Manufactured under
licence from
Koehring Company

NCK-RAPIER
A Newton Chambers Company

NCK-RAPIER Limited, P.O. Box 1, Waterside Works, Ipswich, England
Telephone: Ipswich 56383. Telex: 98176. Cables: Rapier, Ipswich.



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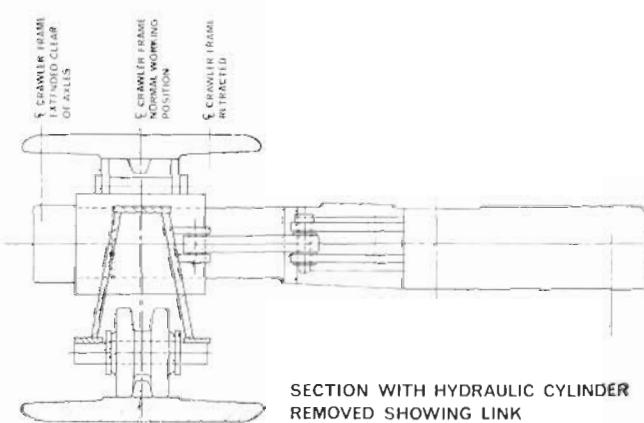
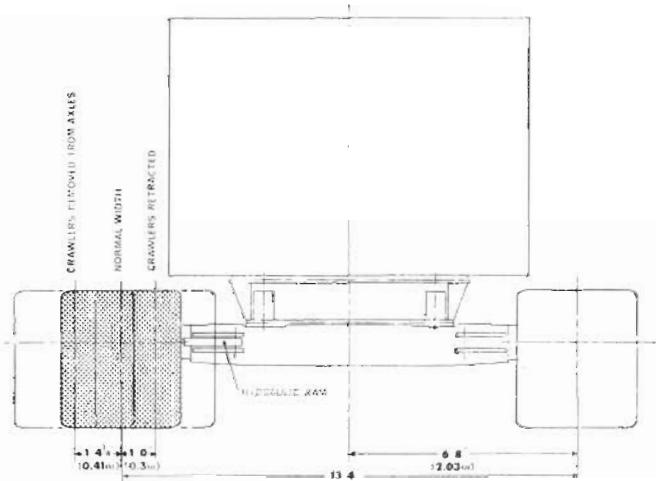




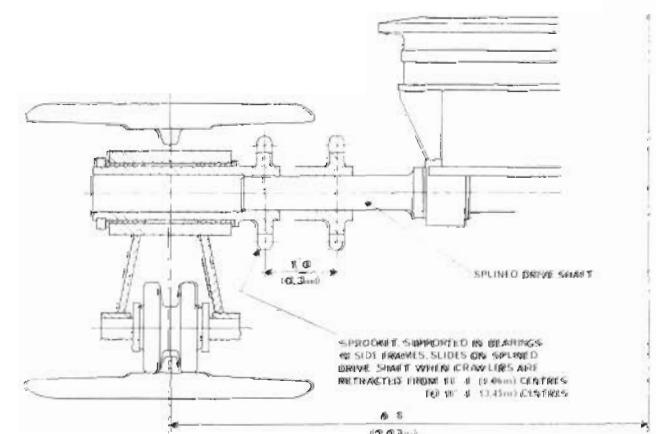
Hydraulic widening, retracting or removal of crawlers

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.



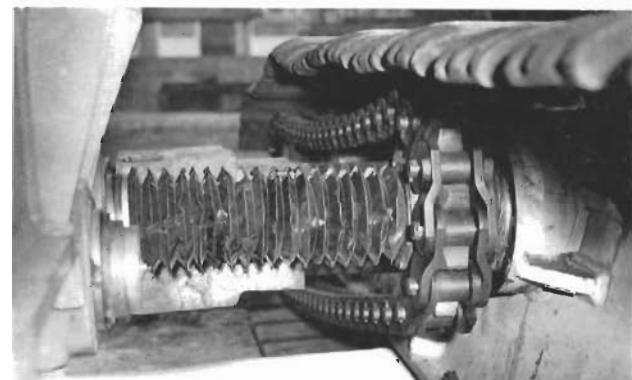
SECTION WITH HYDRAULIC CYLINDER REMOVED SHOWING LINK



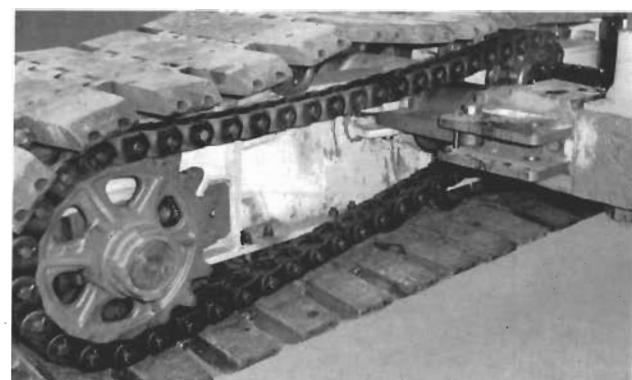
SPROCKET SUPPORTED IN BEARINGS
ON SIDE FRAMES, SLIDES ON SPLINED
DRIVE SHAFT WHEN CRAWLERS ARE
RETRACTED 13 FT 4 IN (4.06 M) CENTRES
11 FT 4 IN (3.45 M) CENTRES



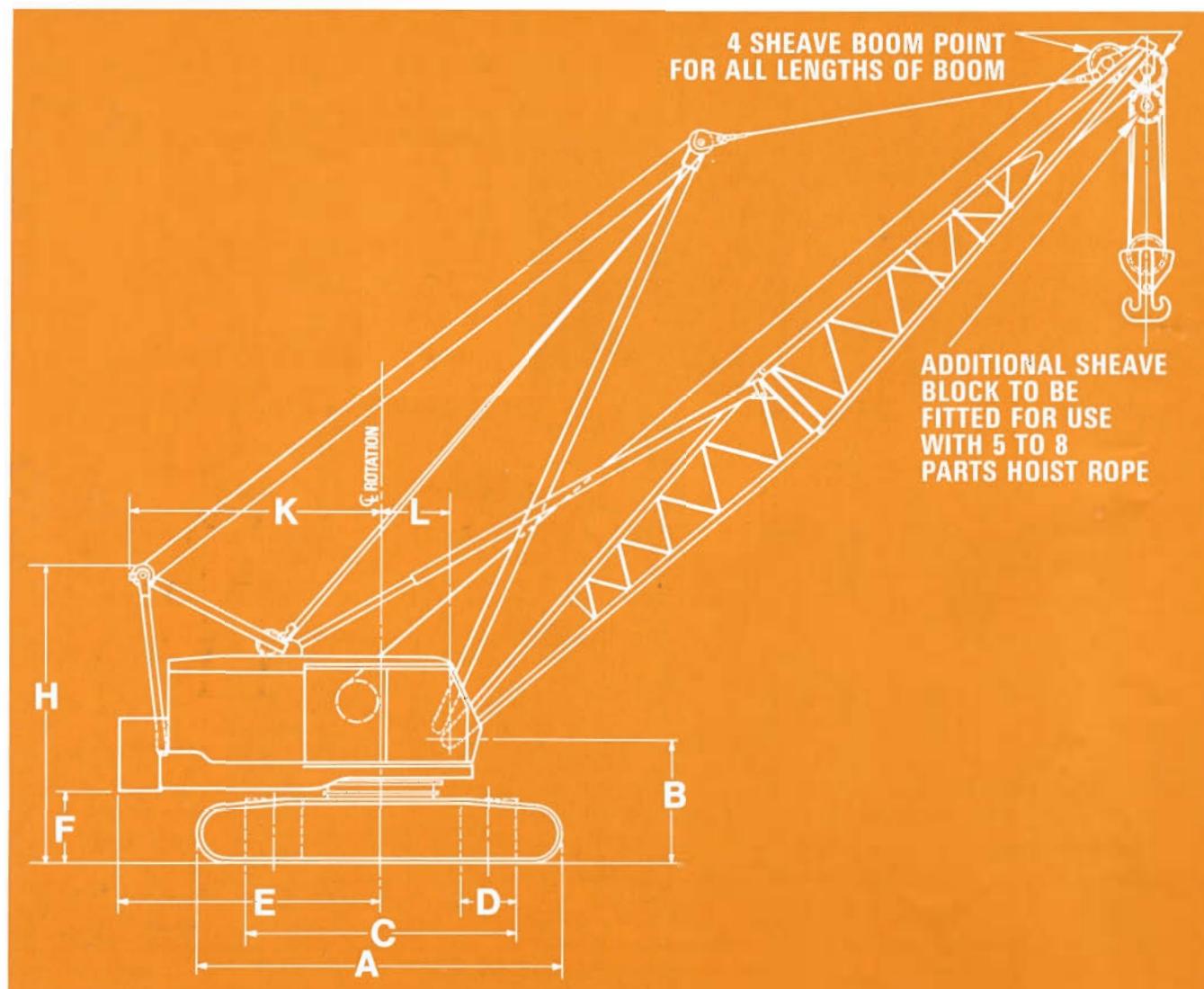
Removing the main pin for widening the crawlers.



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

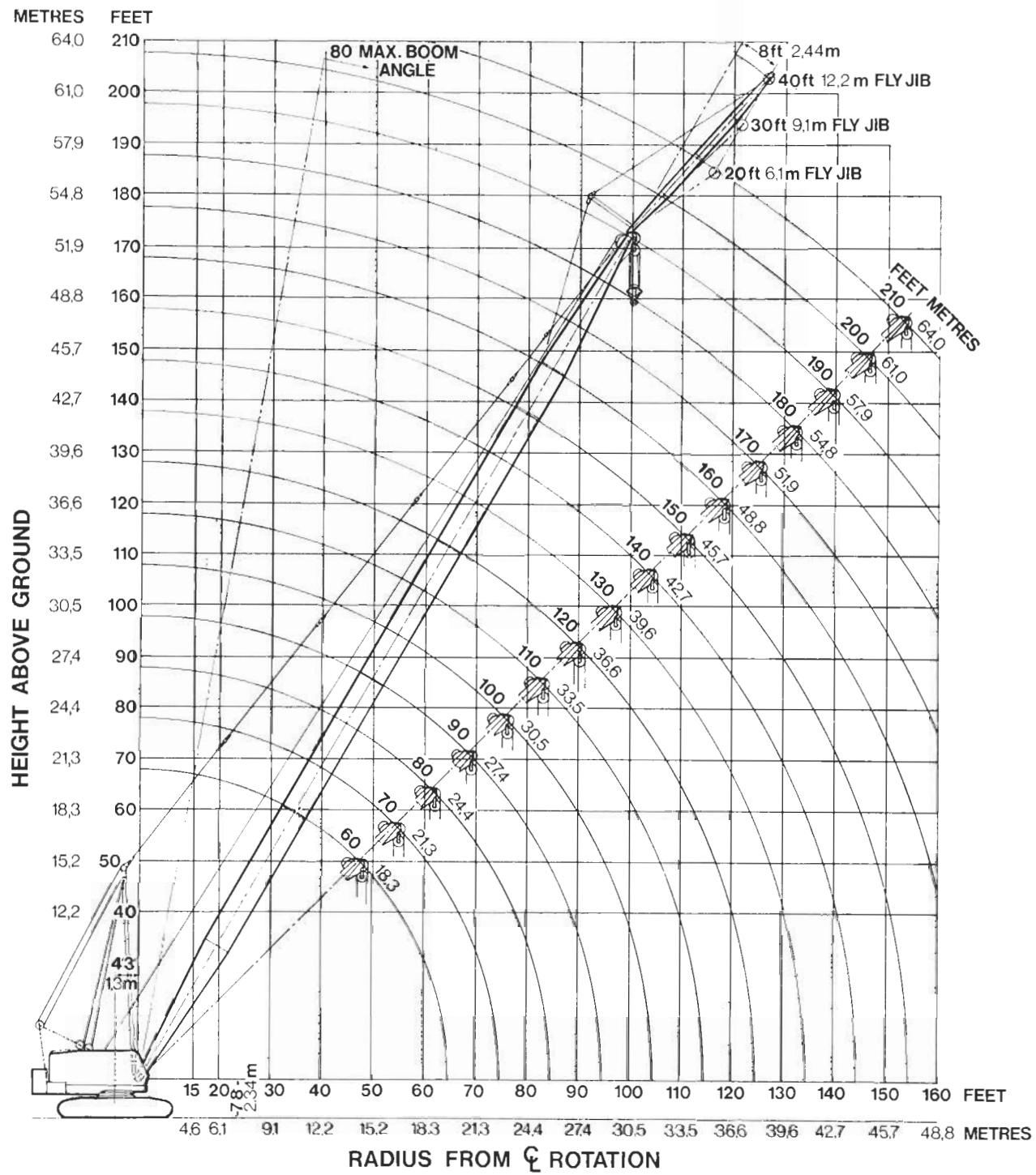


Crawlers at maximum working width with link in position.

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	ft.	in.	m.
A Overall length Std. Crawlers	22	6	6.86
B Boom Foot centre above ground	7	8	2.34
C 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
D Width of shoes	3	6	1.07
Width of shoes	4	0	1.22
E Tail radius over counterweight	16	3	4.95
F Clearance under counterweight	4	5	1.35
H Height of "A" frame	18	8	5.69
K Tail radius over "A" frame	15	11	4.85
L Distance C.L. Boom Foot to C.L. rotation	4	3	1.29

RADIUS DIAGRAM



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.).

