

LOAD CHART "X"

20.0 TONNE HYDRAULIC CRANE

WITH OUTRIGGERS FULLY EXTENDED TO 5.63 METRE CENTRES											
OPERATING RADIUS IN METRES.	LOAD RATINGS IN KILOGRAMS - 360° WORK AREA.										OPERATING RADIUS IN METRES
	MAIN BOOM								AUX. SHEAVE.		
	8.19m		14.06m		19.93m		25.8m		8.19-19.93 BOOM	25.80 BOOM	
	Δ	KGS	Δ	KGS	Δ	KGS	Δ	KGS	KGS	KGS	
3.00	56	20 000	71	16 000					3 000		3.00
3.50	52	20 000	69	16 000	76	9 000			3 000		3.50
4.00	47	18 500	67	15 500	74	9 000			3 000		4.00
4.50	42	16 500	65	14 200	73	9 000	77	6 800	3 000	3 000	4.50
5.00	36	15 000	62	13 100	71	9 000	76	6 800	3 000	3 000	5.00
5.50	30	13 700	60	12 100	70	9 000	75	6 800	3 000	3 000	5.50
6.00	21	12 500	58	11 200	68	9 000	73	6 800	3 000	3 000	6.00
6.50	4	11 500	55	10 400	67	8 500	72	6 800	3 000	3 000	6.50
7.00			53	9 700	65	8 000	71	6 800	3 000	3 000	7.00
8.00			47	7 500	62	7 100	69	6 100	3 000	3 000	8.00
9.00			41	6 000	58	6 300	66	5 500	3 000	3 000	9.00
10.00			35	4 900	55	5 400	64	4 900	3 000	3 000	10.00
11.00			26	4 100	51	4 550	61	4 400	3 000	3 000	11.00
12.00			14	3 350	47	3 900	59	4 000	3 000	3 000	12.00
13.00					43	3 350	56	3 500	3 000	3 000	13.00
14.00					39	2 850	53	3 050	2 650	3 000	14.00
15.00					34	2 500	50	2 650	2 300	2 500	15.00
16.00					28	2 150	47	2 400	1 950	2 200	16.00
17.00					21	1 850	44	2 100	1 650	1 900	17.00
18.00					10	1 600	41	1 800	1 450	1 600	18.00
19.00							37	1 600		1 450	19.00
20.00							34	1 450		1 250	20.00
22.00							24	1 150		950	22.00
24.00							6	850		650	24.00

DEFINITIONS

- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION BEFORE LOADING TO THE CENTRE OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
- LOADED BOOM ANGLE IS THE INCLINED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXIS OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS. (SEE WARNING NOTE 2)

INFORMATION

- CRANE LOAD RATINGS DO NOT EXCEED 75% OF TIPPING LOADS AS DETERMINED BY S.A.A. CRANE CODE AS 1418.
- RATINGS ABOVE LINE ARE BASED ON THE MACHINES HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINES STABILITY.
- WEIGHTS OF HOOKS, HOOKBLOCK (S), SLINGS & ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED PART OF THE LOAD.
- CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED TO 5.63M CENTRES OR MID EXTENDED TO 3.6M CENTRES WITH ALL LOAD REMOVED FROM CARRIER WHEELS.
- STANDARD HOIST REEVINGS ARE SHOWN BELOW SINGLE LINE LOAD NOT TO EXCEED 3340 KGS

BOOM LENGTH	8-19M	14M-06M	19-93M	25-80M	AUX SHEAVE
PART OF LINE	6	6	4	4	1

- MAIN HOIST & AUX. HOIST ROPE BREAKING STRENGTH EQUALS 15 TONNE.
- DEDUCT 500 KG FROM MAIN BOOM RATING WHEN JIB IS ERECTED.
- LOAD RATINGS FOR FREE FALL OPERATION MUST NOT EXCEED ONE FIFTH OF RATINGS SHOWN.
- MINIMUM ANGLES SHOWN BELOW LOAD RATINGS INDICATE THAT TIPPING MAY RESULT IF UNLADEN BOOM IS LOWERED BEYOND THAT STATED ANGLE.

HOOKBLOCK WEIGHTS IN KILOGRAMS	
SINGLE LINE WEIGHTED HOOK	80
3 SHEAVE HOOKBLOCK	200

WITHOUT OUTRIGGERS.															
MAIN BOOM LOAD RATINGS IN KILOGRAMS.															
OPER. RAD IN METRES	8.19 m				14.06 m				19.93 m				25.80 m		
	OVER FRONT		360°		OVER FRONT		360°		OVER FRONT		360°		OVER FRONT		360°
	STATIC	MOBILE	STATIC		STATIC	MOBILE	STATIC		STATIC	MOBILE	STATIC		STATIC	MOBILE	STATIC
3.00	11 450	8 000	7 600		8 100	5 650	6 650								
3.50	10 000	7 000	6 650		8 100	5 650	6 650		5 700	4 000	3 800				
4.00	8 950	6 250	5 600		8 100	5 650	5 350		5 700	4 000	3 800				
4.50	8 000	5 550	4 550		7 450	5 200	4 300		5 700	4 000	3 800				
5.00	7 250	5 050	3 700		6 650	4 650	3 500		5 700	4 000	3 800				
5.50	6 300	4 400	3 150		5 900	4 100	3 000		5 250	3 650	3 250		3 600	2 500	2 500
6.00	5 500	3 850	2 650		5 150	3 550	2 500		4 850	3 400	2 850		3 600	2 500	2 500
6.50	4 550	3 250	2 300		4 450	3 100	2 150		4 450	3 100	2 500		3 600	2 500	2 500
7.00					3 900	2 700	1 800		4 100	2 650	2 150		3 500	2 450	2 300
8.00					3 050	2 100	1 250		3 400	2 350	1 600		3 100	2 150	1 800
9.00					2 450	1 650	850		2 750	1 900	1 200		2 600	1 800	1 350
10.00					1 950	1 300	550		2 300	1 550	850		2 300	1 550	1 050
11.00					1 500	1 050			1 900	1 350	650		2 000	1 400	750
12.00					1 200				1 500	1 050			1 700	1 200	
13.00									1 250	850			1 450	1 100	
14.00									1 050	750			1 250	900	
15.00									850				1 050		
16.00													850		
17.00													700		
MINIMUM ANGLE	—		—		15°	25°			25°	35°	50°		40°	50°	60°

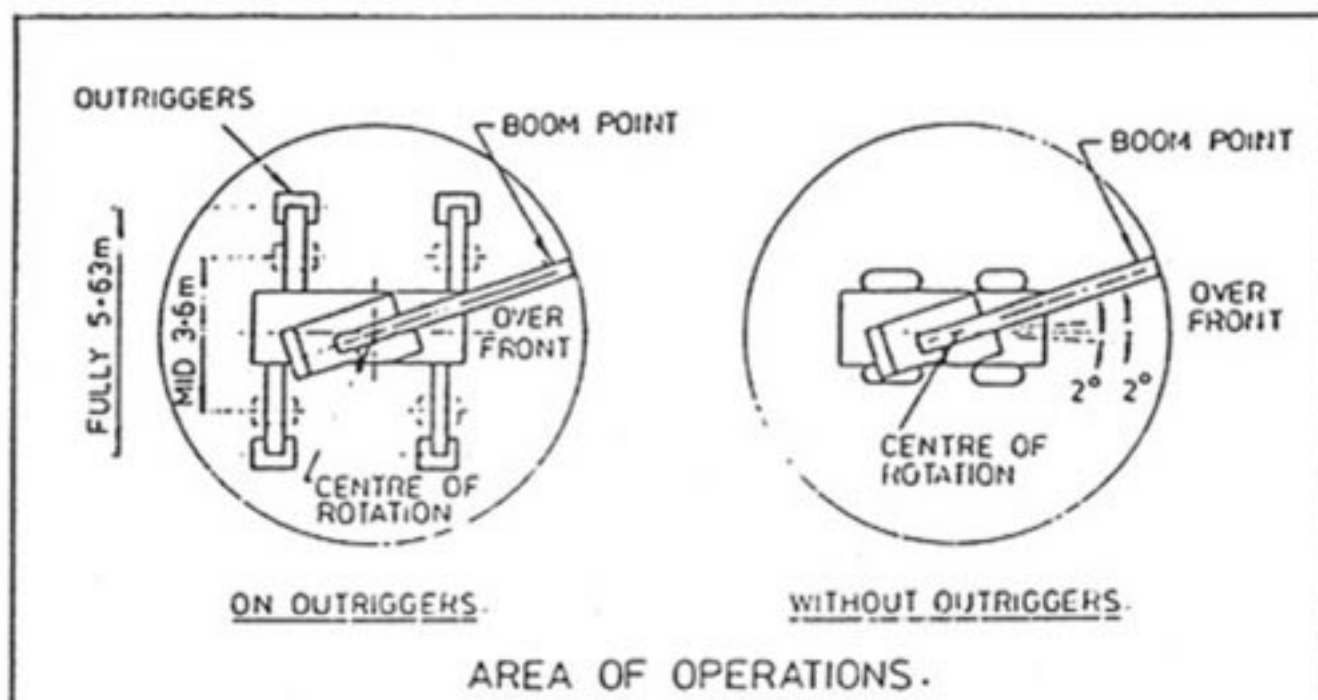
WARNINGS

- CRANE LOAD RATINGS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELLED AND STANDING ON FIRM, PLATFORM, SUPPORTING SURFACE.
- PRACTICAL WORKING LOADS DEPENDS ON SUPPORTING SURFACE, WIND EFFECT AND OTHER FACTORS EFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
- POSITIONING OR OPERATION AT RADIUS AND BOOM OR JIB LENGTHS, BEYOND THE MAXIMUM AND MINIMUM SHOWN IS NOT ALLOWED OR APPROVED.

LOAD CHART "X"

WITH OUTRIGGERS MID EXTENDED TO 3-60 METRE CENTRES.

OPERATING RADIUS IN METRES	LOAD RATINGS IN KILOGRAMS - 360° WORK AREA										OPERATING RADIUS IN METRES	
	MAIN BOOM					AUX. SHEAVE.						
	8.19m		14.06m		19.93m		25.80m		8.19-14.06 BOOM	19.93 BOOM		25.80 BOOM
	△	KGS	△	KGS	△	KGS	△	KGS	KGS	KGS		KGS
3.00	56	20 000	71	16 000					3 000			3.00
3.50	52	17 500	69	16 000	76	9 000			3 000	3 000		3.50
4.00	47	15 000	67	14 000	74	9 000			3 000	3 000		4.00
4.50	42	11 550	65	11 350	73	9 000	77	6 800	3 000	3 000	3 000	4.50
5.00	36	9 550	62	9 250	71	9 000	76	6 800	3 000	3 000	3 000	5.00
5.50	30	8 000	60	7 350	70	8 300	75	6 800	3 000	3 000	3 000	5.50
6.00	21	6 850	58	6 250	63	6 750	73	6 800	3 000	3 000	3 000	6.00
6.50	4	5 900	55	5 450	67	5 800	72	6 200	3 000	3 000	3 000	6.50
7.00			53	4 750	55	5 100	71	5 700	3 000	3 000	3 000	7.00
8.00			47	3 600	62	4 050	69	4 300	3 000	3 000	3 000	8.00
9.00			41	2 850	59	3 300	66	3 500	2 650	3 000	3 000	9.00
10.00			35	2 250	55	2 650	54	2 900	2 050	2 500	2 700	10.00
11.00			26	1 750	51	2 200	61	2 450	1 550	2 000	2 250	11.00
12.00			14	1 450	47	1 800	59	2 000	1 250	1 600	1 800	12.00
13.00					43	1 500	56	1 700		1 350	1 500	13.00
14.00					39	1 300	53	1 450		1 100	1 250	14.00
15.00					34	1 050	50	1 250		850	1 050	15.00
16.00					28	850	47	1 000		650	800	16.00
17.00					21	650	44	800		500	600	17.00
18.00					10	500	31	650		350	500	18.00
19.00							37	550			400	19.00
20.00												20.00
MINIMUM ANGLE							30°				30°	



AREA OF OPERATIONS.

WITHOUT OUTRIGGERS

- ON RUBBER LOAD RATINGS ARE BASED ON LIFT LIMITATIONS AND CONDITION OF TYRES PROPERLY INFLATED PER TABLE & WITH AXLE LOCKOUTS ENGAGED.
- ON RUBBER LOAD RATINGS USING JIB IS STRICTLY PROHIBITED.
- THE USE OF FREE FALL IS PROHIBITED DURING ON RUBBER OPERATIONS.
- PARKING BRAKE MUST BE APPLIED DURING INITIAL LIFTING OF LOAD.
- WHEN TRANSPORTING LOAD, MACHINE MUST BE ON FIRM, LEVEL, UNIFORM SURFACE AND NOT EXCEED 5 KM/H VEHICLE SPEED, WINCH & SWING BRAKES MUST BE LOCKED.
- WHEN OPERATING CRANE ON RUBBER LOAD LIFTED OVER REAR AND SWUNG OVER SIDE WILL INCREASE IN RADIUS DUE TO TYRE DEFLECTION. THE INCREASE IN RADIUS MUST BE COMPENSATED FOR BY RAISING BOOM OR MACHINE MAY TIP OVER. NOTE THAT OVER SIDE RATINGS ARE LESS THAN THOSE OVER FRONT.
- ON RUBBER STATIONARY RATINGS DO NOT EXCEED 75% OF TIPPING LOADS AND MOBILE RATINGS DO NOT EXCEED 66-2/3% OF TIPPING LOADS AS DETERMINED BY SAA CRANE CODE AS1418.
- MINIMUM ANGLES SHOWN BELOW RATINGS INDICATE THAT TIPPING MAY RESULT IF UNLADEN BOOM IS LOWERED BEYOND THAT STATED ANGLE.

JIB LOAD RATINGS - KGS
25.8m BOOM + 6.8m JIB

BOOM ANGLE	5° OFFSET	30° OFFSET
80	3 000	
75	3 000	1 500
72	3 000	1 500
70	2 800	1 350
65	2 400	1 250
60	2 100	1 200
55	1 900	1 150
50	1 500	1 100
45	1 200	1 050
40	950	950
35	750	750
30	600	600
25	500	
20	400	

JIBS ARE INTENDED TO INCREASE LIFTING HEIGHT NOT CAPACITY.

WARNING:

JIB LOAD RATINGS APPLY ONLY FOR CRANE WITHOUT RIGGERS FULLY EXTENDED & SET.

TYRE INFLATION INFO

14.00 X 24 X 24 PLY	785
20.5R . 25 **	660