

LOAD CHART "Z"

— 80 TONNE CRAWLER CRANE LOAD RATING CHART (4.0-160)

RATED CRANE LOADS IN KILOGRAMS — MAIN BOOM IN 360° WORK AREA																															
OPER RAD IN METRES	12-19 m		15-24 m		18-29 m		21-34 m		24-38 m		27-43 m		30-48 m		33-53 m		36-58 m		39-62 m		42-67 m		45-72 m		48-77 m		51-82 m		54-86 m		OPER RAD IN METRES
	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	Δ	Kgs	
4	78	80 000																												3	
4.5	76	68 900	79	68 800																										4.5	
5	73	57 200	77	57 000	79	56 900																								5	
5.5	71	48 800	75	48 600	77	48 500	79	48 500																						5.5	
6	68	42 500	73	42 300	76	42 200	79	42 200	79	42 100																				6	
7	63	33 700	69	33 600	72	33 400	75	33 400	77	33 200	78	33 200																		7	
8	57	27 800	65	27 700	69	27 500	72	27 500	75	27 400	76	27 400	78	27 100	79	27 100															8
9	52	23 600	60	23 500	66	23 300	69	23 300	72	23 200	74	23 200	76	22 900	77	22 900	78	22 800	79	22 700											9
10	45	20 500	56	20 400	62	20 200	66	20 200	70	20 100	72	20 000	74	19 800	75	19 700	77	19 600	78	19 600	79	19 500	79	19 500							10
12			46	16 000	55	15 800	60	15 800	64	15 700	67	15 600	70	15 600	72	15 400	74	15 200	75	15 200	76	15 100	77	15 100	78	14 400	78	14 700	79	14 700	12
14			34	13 100	47	12 900	54	12 900	59	12 800	63	12 700	66	12 500	68	12 400	70	12 200	72	12 200	74	12 000	75	11 800	76	11 800	77	11 800	14		
16					37	10 800	44	10 800	51	10 700	58	10 600	62	10 400	64	10 300	67	10 200	69	10 100	70	10 100	72	10 000	73	9 800	74	9 800	75	9 700	15
18					25	9 200	31	9 200	47	9 100	53	9 000	57	8 800	60	8 700	63	8 600	66	8 600	67	8 500	69	8 400	70	8 200	71	8 200	73	8 000	18
20							21	8 000	40	7 900	47	7 800	53	7 600	56	7 500	60	7 400	62	7 400	64	7 300	66	7 200	68	7 000	69	6 850	70	6 800	20
22									32	6 200	41	6 100	48	6 000	52	5 800	56	5 700	59	5 600	61	5 500	63	5 400	65	5 200	67	5 000	68	5 000	22
24											35	6 000	42	5 800	48	5 600	52	5 500	55	5 400	58	5 300	60	5 200	63	5 000	64	5 100	66	4 900	24
26												36	5 200	43	5 100	48	5 000	52	4 900	55	4 800	58	4 700	60	4 500	62	4 400	63	4 200	26	
28												29	4 600	38	4 600	43	4 400	48	4 400	52	4 300	55	4 100	57	3 900	59	3 800	61	3 600	28	
30															31	4 100	39	4 000	44	3 900	48	3 800	51	3 600	54	3 400	57	3 300	59	3 000	30
32																	33	3 600	39	3 500	44	3 400	48	3 200	51	3 000	54	2 800	56	2 600	32
34																			35	3 100	40	3 000	45	2 800	48	2 600	51	2 400	54	2 200	34
36																			29	2 800	36	2 700	41	2 500	45	2 300	48	2 000	51	1 800	36
38																					31	2 400	37	2 200	41	2 000	45	1 700	48	1 500	38
40																							32	1 900	38	1 700	42	1 400	45	1 200	40

MAIN BOOM RATING IN kgs - WITH JIB ERECTED - 360° WORK AREA																		
OPER RAD IN METRES	6-10m JIB WITH 300 Kg BALL HOOK						12-19m JIB WITH 300 Kg BALL HOOK						18-29m JIB WITH 300 Kg BALL HOOK					OPER RAD IN METRES
	33-53 m	36-58 m	39-62 m	42-67 m	45-72 m	48-77 m	33-53 m	36-58 m	39-62 m	42-67 m	45-72 m	48-77 m	33-53 m	36-58 m	39-62 m	42-67 m	45-72 m	
8	25 900						25 300						24 700					8
9	21 700	21 600	21 500				21 100	21 000	20 900				20 500	20 400	20 300			9
10	18 500	18 400	18 400	18 300	18 300		17 900	17 800	17 800	17 700	17 700		17 300	17 200	17 200	17 100	17 100	10
12	14 100	14 000	14 000	13 900	13 900	13 600	13 500	13 400	13 400	13 300	13 300	13 000	12 900	12 800	12 800	12 700	12 700	12
14	11 200	11 000	11 000	11 000	10 900	10 600	10 600	10 400	10 400	10 300	10 300	10 000	10 000	9 800	9 800	9 800	9 700	14
16	9 100	9 000	8 900	8 900	8 800	8 600	8 500	8 400	8 300	8 300	8 200	8 000	7 900	7 800	7 700	7 700	7 600	16
18	7 500	7 400	7 400	7 300	7 200	7 000	6 900	6 800	6 800	6 700	6 600	6 400	6 300	6 200	6 200	6 100	6 000	18
20	6 300	6 200	6 200	6 100	6 000	5 800	5 700	5 600	5 600	5 500	5 400	5 200	5 100	5 000	5 000	4 900	4 800	20
22	5 400	5 300	5 200	5 100	5 000	4 800	4 800	4 700	4 600	4 500	4 400	4 200	4 200	4 100	4 000	3 900	3 800	22
24	4 600	4 500	4 400	4 300	4 200	4 000	4 000	3 900	3 800	3 700	3 600	3 400	3 400	3 300	3 200	3 100	3 000	24
26	3 900	3 800	3 700	3 600	3 500	3 300	3 300	3 200	3 100	3 000	2 900	2 700	2 700	2 600	2 500	2 400	2 300	26
28	3 400	3 300	3 200	3 100	2 900	2 700	2 800	2 600	2 600	2 500	2 300	2 100	2 200	2 000	2 000	1 900	1 700	28
30	2 900	2 800	2 700	2 600	2 400	2 200	2 300	2 200	2 100	2 000	1 800	1 600	1 700	1 500	1 500	1 400	1 200	30
32		2 400	2 300	2 200	2 000	1 800		1 800	1 700	1 600	1 400	1 200		1 200	1 100	1 000		32
34			1 900	1 800	1 600	1 400			1 300	1 200	1 000							34
36				1 600	1 500	1 300				1 000								36
38					1 200	1 000												38

BOOM INSERT ARRANGEMENT				
BOOM LENGTH METRES	BOOM ARRANGEMENT + CENTRE-HITCH POSITION			
15-24	BASE-A-TIP			
18-29	BASE-B-TIP BASE-A-A-TIP			
21-34	BASE-A-B-TIP			
24-38	BASE-A-C-TIP BASE-B-B-TIP BASE-A-A-B-TIP			
30-48	BASE-A-B-C-TIP BASE-B-B-B-TIP BASE-A-A-B-B-TIP			
33-53	BASE-B-B-C-TIP BASE-A-C-C-TIP			
36-58	BASE-B-C-C-TIP			
39-62	BASE-A-B-C-C-TIP			
42-67	BASE-B-B-C-C-TIP BASE-A-A-B-C-C-TIP			
45-72	BASE-B-C-C-C-TIP			
48-77	BASE-A-B-C-C-C-TIP			
51-82	BASE-C-C-B-B-C-TIP			
54-86	BASE-A-B-C-B-C-C-TIP			
BASE	A	B	C	TIP
610m	305m	610m	914m	610m

MAXIMUM BOOM LENGTH TO LIFT OFF GROUND		
BOOM OVER	With 19900Kgs COUNTERWEIGHT	
	BOOM ONLY	BOOM & JIB
FRONT & REAR	54.86	48.77 * 12.19 45.72 * 18.29

WARNING 1: WEDGE "TREADLE" INTO THE CRAWLER FRONT WHEN ERECTING OR LOWERING 48.77M BOOM + 6.10M JIB AND 48.77M BOOM + 12.19M JIB.

DEFINITIONS

- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM CENTRE-LINE OF ROTATION TO A VERTICAL LINE THROUGH THE CENTRE OF GRAVITY OF THE LOAD.
- RATINGS SHOWN ARE ONLY FOR COMBINATION OF MANUFACTURED UPPER, CRAWLER, BOOM, JIB AND COUNTERWEIGHT.
- RATINGS DO NOT EXCEED 75% OF TIPPING LOADS. DEDUCT WEIGHT OF HOOK BLOCK(S) SLINGS AND ALL OTHER LOAD HANDLING ACCESSORIES FROM MAIN BOOM OR JIB RATING SHOWN.
- AT RADI AND BOOM LENGTH WHERE NO RATINGS ARE SHOWN ON PLATE, OPERATION IS NOT INTENDED OR APPROVED.
- RATINGS SHOWN ARE BASED ON COUNTERWEIGHT OF 19900 KG.
- RATINGS SHOWN ARE BASED ON FREELY SUSPENDED LOADS AND MAKE NO ALLOWANCE FOR SUCH FACTORS AS WIND EFFECT ON LIFTED LOAD, GROUND CONDITIONS, OUT OF LEVEL, OPERATING SPEEDS OR ANY OTHER CONDITION THAT COULD BE DETRIMENTAL TO THE SAFE OPERATION OF THIS EQUIPMENT. THE OPERATOR THEREFORE, HAS THE RESPONSIBILITY TO JUDGE THE EXISTING CONDITIONS AND REDUCE LIFTED LOADS AND OPERATING SPEEDS ACCORDINGLY.

HOIST REEVING					
WIRE ROPE	MAIN HOIST: ROPE DIA 26 mm B S 314.0 kN				
	AUX HOIST: ROPE DIA 26 mm B S 314.0 kN				
	BOOM HOIST: ROPE DIA 18 mm B S 176.0 kN				
PARTS OF LINE	1	2	3	4	5
MAIN HOIST IN Kgs	8000	16000	24000	32000	40000
PARTS OF LINE	6	7	8	9	10
MAIN HOIST IN Kgs	48000	56000	64000	72000	80000
PARTS OF LINE	1				
AUX HOIST IN Kgs	8000				

WARNING

- GANTRY MUST BE IN A RAISED POSITION FOR ALL OPERATING CONDITIONS
- BOOM BACKSTOPS ARE REQUIRED FOR ALL BOOM LENGTHS.
- MID-POINT SUSPENSION (CENTRE HITCH) REQUIRED WHEN BOOM LENGTH IS 51.82 M OR LONGER.
- BOOM INSERTS MUST BE ARRANGED AS SHOWN IN THE "BOOM INSERT ARRANGEMENT CHART".
- STANDARD BOOM HOIST REEVING IS 12 PART LINE.
- SAFE LOADS DEPEND UPON GROUND CONDITIONS, BOOM LENGTH, RADIUS OF OPERATION AND PROPER HANDLING. ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE USER.
- FOR MAIN BOOM RATINGS-WITH JIB ERECTED NOT SHOWN, USE RATING FOR NEXT LONGER BOOM.
- RATINGS ARE BASED ON CRAWLER EXTENDED TO A FULCRUM POINT. CRAWLER FRAMES MUST BE FULLY EXTENDED FOR ALL CRANE OPERATIONS.

WEIGHT OF HOOK BLOCK	
HOOK BLOCKS	Kgs
SINGLE SHEAVE HOOK BLOCK	700
3 SHEAVE HOOK BLOCK	900
5 SHEAVE HOOK BLOCK	1400
WEIGHTED BALL HOOK FOR JIB	300

WARNING

- * WELDING OR OTHER REPAIR TO TUBULAR STEEL BOOMS MAY WEAKEN THE STRUCTURE. SEE YOUR DEALER FOR AUTHORISED BOOM REPAIR SERVICE. UNAUTHORISED REPAIR WILL VOID ALL WARRANTIES.
- * THE WIND EFFECT ON THE LIFTED LOAD CAN CAUSE SUFFICIENT SIDE LOAD TO OVERSTRESS BOOM OR JIB STRUCTURE WHEN SUSPENDED LOAD WILL NOT REMAIN IN LINE WITH BOOM. DERATE CHART 25%. WE RECOMMEND STOPPING OPERATION WHEN WIND IS ABOVE 35 KMH AND TIEING OFF OR LOWERING BOOM WHEN WIND IS ABOVE 58 KM/H.

NOTE: OPERATION OF THIS EQUIPMENT IN EXCESS OF RATED LOADS AND DISREGARD OF INSTRUCTIONS VOIDS WARRANTY