

LOAD CHART "Y"

20.0 TONNE HYDRAULIC CRANE LOAD RATING CHART

360° LOAD RATINGS IN KILOGRAMS WITH OUTRIGGERS EXTENDED

OPER RAD IN METRES	360° LOAD RATINGS IN KILOGRAMS WITH OUTRIGGERS EXTENDED										OPER RAD IN METRES				
	8.2	10	12	14	16	18	19.2	24.4							
	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS	KILOGRAMS					
2.50	62	20,000									2.50				
3.00	58	18,200	66	17,000	71	16,000	74	13,600			3.00				
3.50	54	14,950	63	14,650	68	14,290	72	12,650	75	11,200	3.50				
4.00	49	13,450	60	13,450	66	13,450	70	12,000	73	10,900	4.00				
4.50	44	12,160	56	12,150	63	12,160	67	11,150	71	10,450	4.50				
5.00	38	11,000	52	11,000	60	10,900	65	10,300	69	10,000	5.00				
6.00	23	9,200	44	9,200	54	9,200	60	9,200	65	8,900	6.00				
7.00			32	6,220	46	6,220	54	6,220	59	6,220	7.00				
8.00			16	5,160	39	5,160	49	5,160	55	5,160	8.00				
9.00					30	4,050	43	4,050	51	4,050	9.00				
10.00							35	3,300	45	3,300	10.00				
12.00									33	2,420	12.00				
14.00											14.00				
16.00									32	1,750	16.00				
18.00										25	1,230	18.00			
20.00											39	1,190	20.00		
22.00												29	880	22.00	
24.00													15	610	24.00
26.00															26.00
27.00															27.00

JIB LOAD RATINGS IN KGS.

MAIN BOOM ANGLE	JIB OFFSET ANGLE		
	0°	10°	20°
75	3,400	2,900	2,450
70	2,900	2,450	2,250
65	2,450	2,250	2,000
60	2,000	1,800	1,550
55	1,575	1,550	1,350
50	1,225	1,220	1,100
45	975	950	900
40	775	725	675
35	625	575	525
30	525	475	425

- ### JIB RATING NOTES
- MAXIMUM JIB LOAD RATINGS ARE BASED ON STRUCTURAL COMPETENCE AND DO NOT EXCEED 75% OF TIPPING LOAD WITH FULLY EXTENDED OUTRIGGERS. USE OF OUTRIGGERS IS REQUIRED WHEN BOOM IS EQUIPPED WITH JIB.
 - FOR BUCKET RATINGS ON JIB, DEDUCT 21% FROM MAXIMUM JIB LOAD RATINGS.
 - WARNING:** DO NOT LIFT WITH JIB AT BOOM ANGLES BELOW 30 DEGREES. LOSS OF STABILITY OCCURS RAPIDLY.

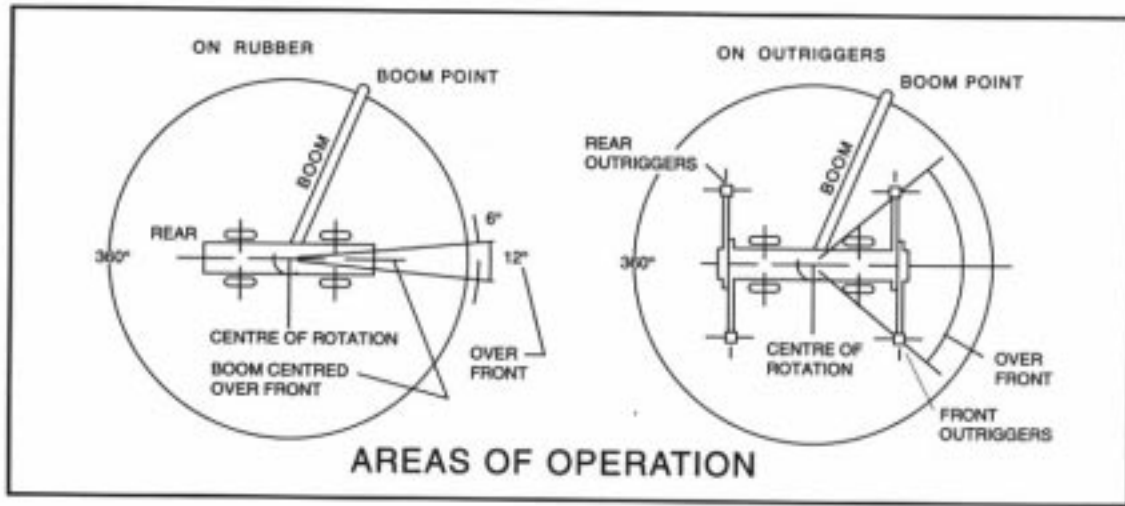
LOAD RATINGS ON RUBBER - KGS.

OPER. RADIUS IN METRE	LOAD RATINGS ON RUBBER - KGS.			
	STATIONARY		MOBILE OVER FRONT	
	FRONT	360°	CREEP	4 K.P.H.
3.00	13,470	8,000	11,290	7,340
3.50	11,940	6,200	10,020	6,450
4.00	10,400	4,900	8,830	5,620
5.00	6,400	3,100	5,650	4,140
6.00	4,400	2,100	3,950	3,220
7.00	3,200	1,400	2,850	2,510
8.00	2,400	1,000	2,150	1,970
9.00	1,800	600	1,650	1,520
10.00	1,400		1,250	1,160
12.00	1,000		900	890
14.00	550		500	

WARNING: DO NOT EXCEED MAXIMUM RADIUS FOR EACH COLUMN OR A TIPPING CONDITION WILL OCCUR.

- ### ON RUBBER RATINGS NOTES
- #### DEFINITIONS
- CREEP IS MOTION FOR LESS THAN 61 METRES IN A 30 MINUTE PERIOD AND NOT EXCEEDING 1.6KM/H.
- #### INFORMATION
- RATINGS ABOVE HEAVY LINE ARE BASED ON STRUCTURAL LIMITS AND NOT ON MACHINE STABILITY.
 - STATIONARY LOAD RATINGS DO NOT EXCEED 75% OF TIPPING LOADS. MOBILE LOAD RATINGS DONOT EXCEED 66.2/3% OF TIPPING LOADS.

- #### WARNINGS
- WHEN TRANSPORTING A LOAD, THE MACHINE MUST BE ON FIRM LEVEL GROUND WITH LOAD CENTRED OVER THE FRONT AND RESTRAINED FROM SWINGING WITH MECHANICAL SWING LOCK ENGAGED.
 - LOAD RATINGS ARE BASED ON LIFT LIMITATIONS AND CONDITIONS OF TYRES INFLATED TO PRESSURES SHOWN AND APPLY ONLY WHEN AXLE LOCKOUTS ARE ENGAGED.
 - USE OF JIB FOR ON RUBBER RATINGS IS NOT APPROVED.
 - RATINGS ARE LIMITED TO FULLY RETRACTED BOOM.
 - LOAD LIFTED OVER FRONT OR 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.



TYRE INFLATION TABLE

20.5 X 25 X 16 PLY TYRE

MODE OF OPERATION	PRESSURE (K PA)
STATIC/CREEP	450
4 K.P.H.	340
TRAVEL	280

WEIGHT OF P&H HOOK BLOCKS IN KILOGRAMS

SINGLE LINE HOOK	45
3 SHEAVE HOOK BLOCK	215

HOIST REEVING

WIRE ROPE: 13MM DIA. MINIMUM BREAKING STRENGTH 118KN.

PERMISSIBLE LINE LOADS IN KILOGRAMS

PARTS LINE	1	2	3	4	5	6	7
MAIN	3,000	6,000	9,000	12,000	15,000	18,000	20,000

- PRACTICAL LOADS DEPENDS ON SUPPORTING SURFACE, WIND & OTHER FACTORS EFFECTING STABILITY, HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL & PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
- LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTION. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
- POSITIONING OR OPERATION AT RADII & BOOM OR JIB LENGTHS BEYOND THE MAXIMUM & MINIMUMS SHOWN IS NOT INTENDED OR APPROVED.
- FOR BOOM LENGTHS NOT SHOWN USE RATING OF NEXT LONGER BOOM.
- THE MAXIMUM LOAD THAT MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE & BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.

WARNING

WITH 4.6 m 'A' FRAME JIB IN STOWED OR OPERATING POSITION, POWERED BOOM RATINGS SHOULD BE REDUCED ACCORDINGLY.

EQUIPPED WITH	JIB STOWED	JIB ERECTED
BOOM DEDUCTION	180 KILOGRAMS	320 KILOGRAMS

- #### 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 INCLUDED ANGLE BETWEEN THE HORIZONTAL & LONGITUDINAL AXIS OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS. (SEE WARNING NOTES).
- #### INFORMATION
- CRANE LOAD RATINGS ARE FOR MACHINES WITH 1940 KGS OF COUNTERWEIGHT & DO NOT EXCEED 75% OF TIPPING LOADS WITHOUT STOWED JIB.
 - RATINGS ABOVE HEAVY LINE ARE BASED ON THE MACHINES HYDRAULIC OR STRUCTURAL COMPETENCE & NOT ON MACHINE STABILITY.
 - WEIGHTS OF HOOKS, HOOK BLOCKS(S), SLINGS & ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
 - CRANE LOAD RIGGINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED SET TO A DISTANCE OF 2.5 M. FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.
 - METHOD OF POWERED BOOM EXTENSION IS RANDOM WITH EACH POWERED SECTION EXTENDABLE A DISTANCE OF 5.5 M.
- #### WARNINGS
- FOR BOOM LENGTHS LESS THAN 24.4 M. WITH MANUAL SECTION EXTENDED THE LOADS ARE DETERMINED BY BOOM ANGLE ONLY IN THE COLUMN HEADED BY 24.4 m BOOM. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.

WARNING: READ FOR SAFETY

WHEN USING THIS EQUIPMENT IN EXCESS OF RATED LOADS IN AREAS OF CHART NOT RATED OR WITH DISREGARD OF INSTRUCTIONS WILL RESULT IN UNSAFE OPERATING CONDITIONS.

THE WIND EFFECT ON THE LIFTED LOAD CAN CAUSE SUFFICIENT LOAD TO REDUCE STABILITY OF MACHINE. WHEN SUSPENDED LOAD WILL NOT REMAIN IN LINE WITH BOOM DERATE 25%. WE RECOMMEND STOPPING OPERATION WHEN WIND IS ABOVE 50KM/H & TIEING OFF OR LOWERING BOOM WHEN WIND IS ABOVE 80 Km/h.

WHEN OPERATING CRANE WITHOUT OUTRIGGERS LOAD LIFTED OVER REAR & SWUNG OVER SIDE WILL INCREASE RADIUS DUE TO TYRE DEFLECTION. THE INCREASE IN RADIUS MUST BE COMPENSATED FOR BY RAISING BOOM OR MACHINE MAY TIP OVER.

WELDING OR OTHER REPAIRS TO THE BOOM MAY WEAKEN THE STRUCTURE. SEE YOUR P&H DEALER FOR AUTHORISED BOOM REPAIR SERVICE. UNAUTHORISED REPAIRS VOIDS ALL WARRANTIES.