TEREX

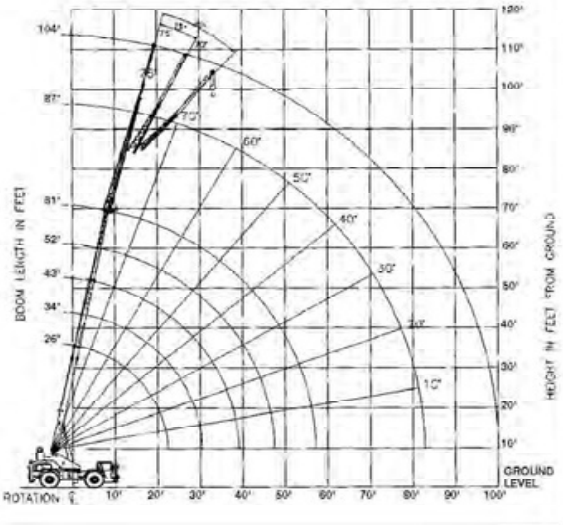
CD225

rough terrain crane
25 ton capacity

range diagrams & lifting capacities

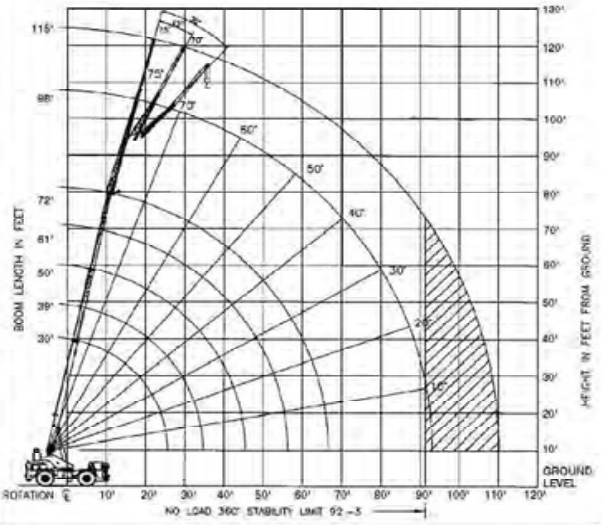
Range Diagram (26'-61' boom)

BOOM DEFLECTIONS NOT SHOWN

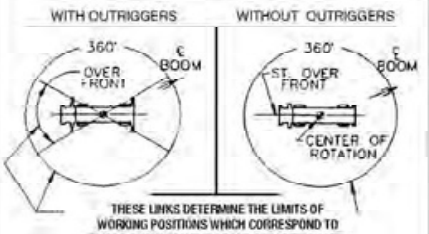


Range Diagram (30'-72' boom)

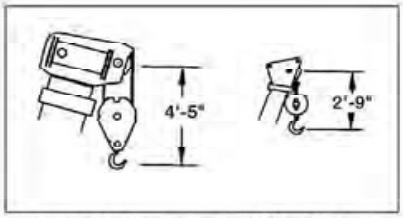
BOOM DEFLECTIONS NOT SHOWN



CRANE WORKING POSITIONS



THESE LINKS DETERMINE THE LIMITS OF WORKING POSITIONS WHICH CORRESPOND TO THOSE SHOWN ON THE CRANE CAPACITY CHART.



Dimensions are for largest factory furnished hook block and hook & ball with anti-two block activated.

HOOK BLOCK WEIGHTS

Hook & Ball	239 Lbs.
Hook Block (2 Sheave)	680 Lbs.
Hook Block (3 Sheave)	660 Lbs.
Hook Block (4 Sheave)	650 Lbs.

Lifting Capacities – Pounds (26'-61' boom)

MODEL CD225

COUNTERWEIGHT: STABILITY PCT.
W/AUX.WINCH 6,100 LBS. ON OUTRIGGERS 85%
W/O AUX.WINCH 7,200 LBS ON TIRES 75%
BOOM LENGTH 26 - 61 FT. PCSA CLASS 10-68
OUTRIGGER SPREAD 14'-6"

ON OUTRIGGERS

LOAD RADIUS (FT)	BOOM LENGTH 26 FT			BOOM LENGTH 34 FT			BOOM LENGTH 43 FT			BOOM LENGTH 52 FT			BOOM LENGTH 61 FT			LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	
10	58.7	50,000*	50,000	66.3	45,300*	45,300*	71.5	42,900*	42,900							10
12	53.3	44,000*	*	62.5	40,900*	40,900*	68.7	38,600*	*	72.5	36,900*	36,900				12
15	44.4	36,100*	44,000	56.6	35,900*	35,300*	64.3	33,600*	38,600	69.0	32,100*	*	72.	29,600*	29,600	15
20	23.9	25,600*	*	45.6	26,200*	22,100	56.5	26,500*	*	62.9	26,500*	32,100	2	24,200*	*	20
25	**		34,800	31.6	19,900*	14,900	48.0	20,300*	33,600	56.5	20,500*	*	67.	20,500*	22,500	25
30			*	**			38.0	16,100*	*	49.5	16,400*	22,400	2	16,500*	15,300	30
35			21,600				24.7	13,100*	22,300	41.7	13,400*	15,200	62.	13,500*	11,300	35
40							**		15,100	32.3	11,100*	11,200	0	11,300*	8,700	40
45									11,100	19.1	9,400*	8,600	56.	9,600*	6,900	45
50									8,400	**		6,800	5	8,200*	5,600	50
55												5,400	50.	7,000*	4,500	55
													6		3,700	
													44.			
													1			
													36.			
													7			
													27.			

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 26 FT			BOOM LENGTH 34 FT			BOOM LENGTH 43 FT			BOOM LENGTH 52 FT			BOOM LENGTH 61 FT		
LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360* (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (FT)
21.9	22,800*	18,000	29.5	15,900*	10,900	38.5	11,400*	7,000	47.5	8,600*	4,800	56.5	6,700*	3,400

ON TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	14.00 X 24–24PR				20.50 X 25–24PR				RADIUS (FT)
		STATIONARY		PICK & CARRY CREEP	PICK & CARRY 2.5 MPH	STATIONARY		PICK & CARRY CREEP	PICK & CARRY 2.5 MPH	
		360°	STRAIGHT OVER FRONT			360°	STRAIGHT OVER FRONT			
1	30	19,700*	33,000*	24,900*	20,900	22,400	44,100*	35,600*	24,200	10
0	30	14,700*	28,700*	21,500*	*	16,600	31,400	30,900*	*	12
1	39	10,700*	21,000	17,600*	18,000	11,600	20,500	20,500	20,800	15
2	39	6,500	12,800	12,800	*	6,700	12,000	12,000	*	20
1	50	4,500	8,600	8,600	14,600	4,400	8,700	8,700	17,000	25
5	50	3,300	6,400	6,400	*	3,400	6,500	6,500	*	30
2	50	2,200	5,000	5,000	10,700	2,500	5,000	5,000	12,000	35
0	61	1,300	4,000	4,000	*	1,700	3,800	3,800	8,700	40
2	61		3,100	3,100	8,200*	1,100	3,000	3,000	6,500	45
5	61		2,400	2,400	6,400		2,400	2,400	5,000	50
3	61		1,900	1,900	5,000		2,000	2,000	3,800	55
0					4,000				3,000	
3					3,100				2,400	
5					2,400				2,000	
4					1,900					

Notes For On Tire Capacities:
A. For Pick and Carry Operations, boom must be centered over the front of the machine.
B. The load should be restrained from swinging.
C. Creep Speed is crane movement of less than 200 ft. (61 m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
D. Refer to General Notes for additional information.
E. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires used to ensure stability.

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	21/2 MPH	TRAVEL
14.00 X 24-24 PR	115 PSI	115 PSI	105 PSI	105 PSI
16.00 X 25-28 PR	115 PSI	115 PSI	95 PSI	95 PSI
20.50 X 25-24 PR	95 PSI	95 PSI	70 PSI	70 PSI

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAX. LOAD	9,080	18,160	27,240	36,320	45,400	54,480	65,560
BOOM HEAD	2	3–D	2–3	1–4–D	2–3–4	2–3–4–D	1–2–3–4
HOOK BLOCK	D	3	3–D	1—4	2–3–D	2–3–4	2–3–4–D

WIRE ROPE:
5/8"ROTATION RESISTANT COMPACTED STRAND,18 X 19 OR 19 X 19 MINIMUM BREAKING STRENGTH – 22.7 TONS
5/8" 6 X 19 OR 6 X 37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH – 17.9 TONS

SIDE STOW JIB ON OUTRIGGERS

LOADED BOOM ANGLE (DEG)	26 FT OFFSETABLE JIB						43 FT. OFFSETABLE JIB						LOADED BOOM ANGLE (DEG)
	0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15°OFFSET		30°OFFSET		
	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	(LOAD) RADIUS (REF) (FT)	360° (LB)	
75	20'-8"	13,100	27'-5"	7,800	32'-7"	5,600	26'-7"	5,100	35'-2"	3,400*	43'-3"	2,500*	75
73	23'-4"	*	30'-4"	*	35'-4"	*	30'-3"	*	38'-9"	3,200*	46'-11"	2,400*	73
71	26'-6"	11,900	33'-2"	7,300	38'-0"	5,400	33'-8"	4,900	42'-4"	3,000*	50'-4"	2,400*	71
68	30'-10"	*	37'-3"	*	42'-0"	*	38'-11"	*	47'-6"	2,800*	55'-2"	2,300*	68
65	34'-6"	10,200	41'-1"	6,900	45'-8"	5,200	43'-10"	4,700	52'-2"	2,600*	59'-8"	2,300*	65
62	38'-5"	9,300	45'-0"	*	49'-2"	*	48'-6"	*	56'-10"	2,500*	63'-10"	2,200*	62
59	42'-0"	8,300	48'-9"	6,500	52'-5"	5,000	53'-2"	4,400	61'-5"	2,400*	67'-10"	2,200*	59
55	46'-8"	7,300	53'-6"	*	57'-1"	*	59'-3"	*	66'-10"	2,300*	73'-1"	2,200*	55
51	51'-2"	6,400	57'-8"	6,100	60'-10"	4,800	65'-1"	4,000	72'-1"	2,300*	77'-4"	2,100*	51
47	55'-2"	5,400	61'-7"	*	64'-3"	*	70'-4"	*	77'-1"	2,200*	81'-1"	2,100*	47
43	58'-11"	4,400	65'-3"	5,600	67'-6"	4,600	75'-2"	3,600	81'-5"	2,100	84'-5"	2,000*	43
38	63'-7"	3,800	69'-6"	*	71'-5"	*	80'-7"	*	85'-10"	1,700	88'-3"	1,700	38
32	69'-1"	3,300	73'-8"	5,400	75'-0"	4,500	86'-3"	3,300	90'-4"	1,500	91'-11"	1,400	32
25	73'-9"	2,800	78'-2"	*		*	91'-11"	*	95'-0"	1,200			25
17	76'-11"	2,200	81'-1"	4,500		4,100	96'-8"	2,900	98'-0"	1,000			17
0	80'-10"	1,800		3,800		3,500	100'-3"	*					0
		1,500		3,300		3,000		2,700					
		1,300		2,800		2,700		*					
				2,400		2,500		2,500					
				2,000		2,300		*					
				1,600		1,900		2,300					
				1,300		1,600		1,900					
						1,300		1,600					
								1,300					

Notes For Jib Capacities:
F. For all boom lengths less than the maximum with a jib erected, rated loads are determined by boom angle only in the appropriate column.
G. For boom angles not shown, use the capacity of the next lower boom angle.
H. Listed radii are for fully extended main boom only.

Lifting Capacities – Pounds (30'-72' boom)

MODEL CD225

COUNTERWEIGHT: STABILITY PCT.
W/AUX.WINCH 6,100 LBS. ON OUTRIGGERS 85%
W/O AUX.WINCH 7,200 LBS ON TIRES 75%
BOOM LENGTH 30 - 72 FT. PCSA CLASS 10-62
OUTRIGGER SPREAD 14'-6"

ON OUTRIGGERS

LOAD RADIUS (FT)	BOOM LENGTH 30 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 39 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 50 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB	BOOM LENGTH 61 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 72 FT LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)
10	63.0	50,000*	50,000	69.4	43,400*	43,400*										10
12	58.5	41,700*	*	66.2	39,100*	39,100*	71.7	36,900*	36,900							12
15	51.4	35,900*	41,700	61.2	34,100*	34,100*	68.0	32,000*	*	72.	30,600*	30,600				15
20	37.4	25,400*	*	52.3	26,000*	21,900	61.6	26,300*	32,000	1	25,000*	*	70.	23,700*	22,400	20
25	13.7	19,000*	34,500	42.0	19,700*	14,600	54.8	20,100*	*	67.	20,300*	22,300	8	20,000*	15,100	25
30	**		*	28.8	15,500*	10,400	47.3	15,900*	22,100	1	16,100*	15,000	66.	16,300*	11,000	30
35			21,300	**			38.7	12,900*	14,900	61.	13,200*	10,900	5	13,300*	8,400	35
40			13,800				27.9	10,700*	10,800	9	10,900*	8,300	62.	11,100*	6,600	40
45							7.9	8,800*	8,100	56.	9,200*	6,500	0	9,300*	5,300	45
50							**		6,200	3	7,800*	5,100	57.	8,000*	4,200	50
55									4,800	50.	6,500	4,000	4	6,700	3,400	55
60										4		3,100	52.	5,700	2,700	60
65										43.			5	4,800	2,100	65
70										9			47.			70
75										36.			2			75
80										5			41.			80
85										27.			4			85
90										3			34.			90
95										13.			20			95
100										6			6			100
105										5			27.			105
110													5			110
115													15.			115
120													5			120
125																125
130																130
135																135
140																140
145																145
150																150
155																155
160																160
165																165

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 30 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 39 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360* (LB)	BOOM LENGTH 50 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 61 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	BOOM LENGTH 72 FT LOAD RADIUS (FT)	OVER FRONT (LB)	360° (FT)
25.6	18,300*	13,000	34.3	12,700*	7,800	45.3	8,700*	4,700	56.3	6,200	2,900	67.3	4,400	1,800

ON TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	14.00 X 24–24PR STATIONARY 360°	PICK & CARRY STRAIGHT OVER FRONT	CREEP	2.5 MPH	20.50 X 25–24PR STATIONARY 360°	PICK & CARRY STRAIGHT OVER FRONT	CREEP	2.5 MPH	RADIUS (FT)
10	30	19,500	32,400	24,400	20,400	18,700	35,900	35,900	25,800	10
12	30	*	*	*	*	14,900	30,500	30,500	*	12
15	39	14,400	28,100	21,000	17,400	11,200	22,300	20,300	22,200	15
20	39	*	*	*	*	6,500	12,700	12,700	*	20
25	50	10,400	21,300	17,100	14,000	4,200	9,000	9,000	18,100	25
30	50	*	12,900	8,600	*	2,900	6,700	6,700	*	30
35	50	6,500*	8,600	6,200	10,200	2,100	5,000	5,000	12,700	35
40	61	4,100*	6,200	*	*	1,300	3,900	3,900	9,000	40
45	61	2,700*	4,700	4,700	7,500*	800	2,900	2,900	6,700	45
50	72	1,800*	3,800	3,800	5,800*		2,300	2,300	5,000	50
55	72	1,100	3,000	3,000	4,600*		1,800	1,800	3,900	55
60	72		2,100	2,100	3,700*		1,300	1,300	2,900	60
65			1,500	1,500	3,000		1,000	1,000	2,300	65
			1,100	1,100	2,100				1,800	
					1,500				1,300	
					1,100				1,000	

Notes For On Tire Capacities:

A. For Pick and Carry Operations, boom must be centered over the front of the machine.

B. The load should be restrained from swinging.

C. Creep Speed is crane movement of less than 200 ft. (61 m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).

D. Refer to General Notes for additional information.

E. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires used to ensure stability.

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	21/2 MPH	TRAVEL
14.00 X 24-24 PR	115 PSI	115 PSI	105 PSI	105 PSI
16.00 X 25-28 PR	115 PSI	115 PSI	95 PSI	95 PSI
20.50 X 25-24 PR	95 PSI	95 PSI	70 PSI	70 PSI

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAX. LOAD	9,080	18,160	27,240	36,320	45,400	54,480	65,560
BOOM HEAD	2	3–D	2–3	1–4–D	2–3–4	2–3–4–D	1–2–3–4
HOOK BLOCK	D	3	3–D	1–4	2–3–D	2–3–4	2–3–4–D

WIRE ROPE:
5/8"ROTATION RESISTANT COMPACTED STRAND,18 X 19 OR 19 X 19 MINIMUM BREAKING STRENGTH – 22.7 TONS
5/8" 6 X 19 OR 6 X 37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH – 17.9 TONS

SIDE STOW JIB ON OUTRIGGERS

LOADED BOOM ANGLE (DEG)	26 FT OFFSETABLE JIB 0° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	15° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	30° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	43 FT. OFFSETABLE JIB 0° OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	15°OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	30°OFFSET (LOAD) RADIUS (REF) (FT)	360° (LB)	LOADED BOOM ANGLE (DEG)
75	26'-7"	13,100	31'-11"	7,800	37'-6"	5,600	29'-10"	5,100	33'-7"	3,400*	47'-2"	2,500*	75
73	29'-2"	*	34'-11"	*	39'-5"	*	33'-9"	*	39'-7"	3,200*	51'-5	2,400*	73
71	31'-11"	10,900	37'-10"	7,300	42'-4"	5,400	39'-1"	4,900	45'-5"	3,000*	55'-3"	2,400*	71
68	36'-4"	*	42'-6"	*	46'-8"	*	46'-2"	*	52'-9"	2,800*	60'-9"	2,300*	68
65	40'-8"	7,900	47'-1"	6,900	51'-0"	5,200	52'-6"	4,700	58'-11"	2,600*	65'-6"	2,300*	65
62	45'-0"	6,300	51'-5"	*	55'-1"	*	58'-1"	*	64'-6"	2,500*	69'-11"	2,200*	62
59	49'-9"	5,300	55'-6"	6,500	58'-11"	5,000	63'-3"	4,400	69'-5"	2,400*	74'-0"	2,200*	59
55	54'-10"	4,500	60'-8"	*	63'-3"	*	69'-6"	*	75'-3"	2,300*	79'-1"	2,200*	55
51	60'-11"	3,600	65'-5"	5,500	67'-9"	4,800	75'-1"	4,000	80'-6"	1,900	83'-9"	1,800	51
47	65'-7"	2,900	70'-1"	4,700	72'-3"	*	80'-3"	*	85'-3"	1,500	87'-11"	1,400	47
43	70'-4"	2,300	74'-5"	3,800	76'-2"	4,000	85'-0"	3,600	89'-7"	1,200	91'-10"	1,100	43
38	75'-8"	1,900	79'-1"	3,100	80'-5"	3,400	90'-6"	*	94'-6"	,900	96'-2"	800	38
32	80'-11"	1,500	83'-9"	2,600	84'-6"	2,800	96'-3"	3,300	99'-7"	,600	101'-0"	600	32
25	85'-11"	1,000	88'-1"	2,100		2,400		*					25
		700		1,700		2,000		2,700					
				1,300		1,600		2,200					
				900		1,200		1,700					
				600		900		1,400					
								1,000					
								700					

Notes For Jib Capacities:

F. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.

G. For boom angles not shown, use the capacity of the next lower boom angle.

H. Listed radii are for fully extended main boom only.

GENERAL NOTES

GENERAL

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through your distributor.
3. These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDARDS FOR CRANES.
4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO. 4, SAE CRANE LOAD STABILITY TEST CODE J765A, SAE METHOD OF TEST FOR CRANE STRUCTURE J1063 AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5.

DEFINITIONS

1. LOAD RADIUS – The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. LOADED BOOM ANGLE – It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with boom length give only an approximation of the operating radius.
3. WORKING AREA – Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
4. FREELY SUSPENDED LOAD – Load hanging free with no direct external force applied except by the hoist rope.
5. SIDE LOAD – Horizontal force applied to the lifted load either on the ground or in the air.
6. NO LOAD STABILITY LIMIT – The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to po... the boom, when the boom angle is less than the minimum show... on the applicable load chart, because the machine can overturn without any load.
7. BOOM SIDE OF CRANE – The side of the crane over which the boom is positioned when in an OVER SIDE working position.

SET–UP

1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.
3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator's Manual for precautions.
4. Use of jibs, lattice–type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
5. Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
6. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.
7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
8. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.
9. Do not elevate the boom above 60° unless the boom is positioned in-line with the crane's chassis or the outriggers are extended. Failure to observe this warning may result in loss of stability.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams).
4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. Power telescoping boom sections must be extended equally.
6. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.
   When lifting over the jib the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load.
   When jibs are erected but unused add two (2) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.
7. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765a. Structural strength ratings in chart are indicated with an asterisk (*).
8. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.
9. The user shall operate at reduced ratings to allow for adverse job conditions, such as: Soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc., (side pull on boom or jib is hazardous). Derating of the cranes lifting capacity is required when wind speed exceeds 20 MPH, the center of the lifted load must never be allowed to move more than 3* feet off the center line of the base boom section due to the effects of wind, inertia, or any combination of
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   ... Use 2 feet off the center line of the base boom for a two section boom, 3 feet for a three section boom, or 4 feet for a four section boom."
10. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.
11. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
12. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
13. FOR TRUCK CRANES ONLY: 360° capacities apply only to machines equipped with a front outrigger jack and all five (5) outrigger jacks properly set. If the front (5th) outrigger jack is not properly set, the work area is restricted to the over side and over rear areas as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work areas.
14. Do not lift with outrigger beams positioned between the fully extended and intermediate (pinned) positions.
15. Truck Cranes not equipped with equalizing (bogie) beams between the rear axles may not be used for lifting "on tires". Truck Cranes equipped with equalizing beams and rear air suspension should "dump" the air before lifting "on tires".

CLAMSHELL, MAGNET, AND CONCRETE BUCKET SERVICE

1. Maximum boom length for clamshell and magnet service is 50 feet.
2. Weight of clamshell or magnet, plus contents are not to exceed 6,000 pounds or 90% of rated lifting capacities, whichever is less. For concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacity.

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