



LOAD CHARTS

for Use With

WRITTEN EXAMINATIONS



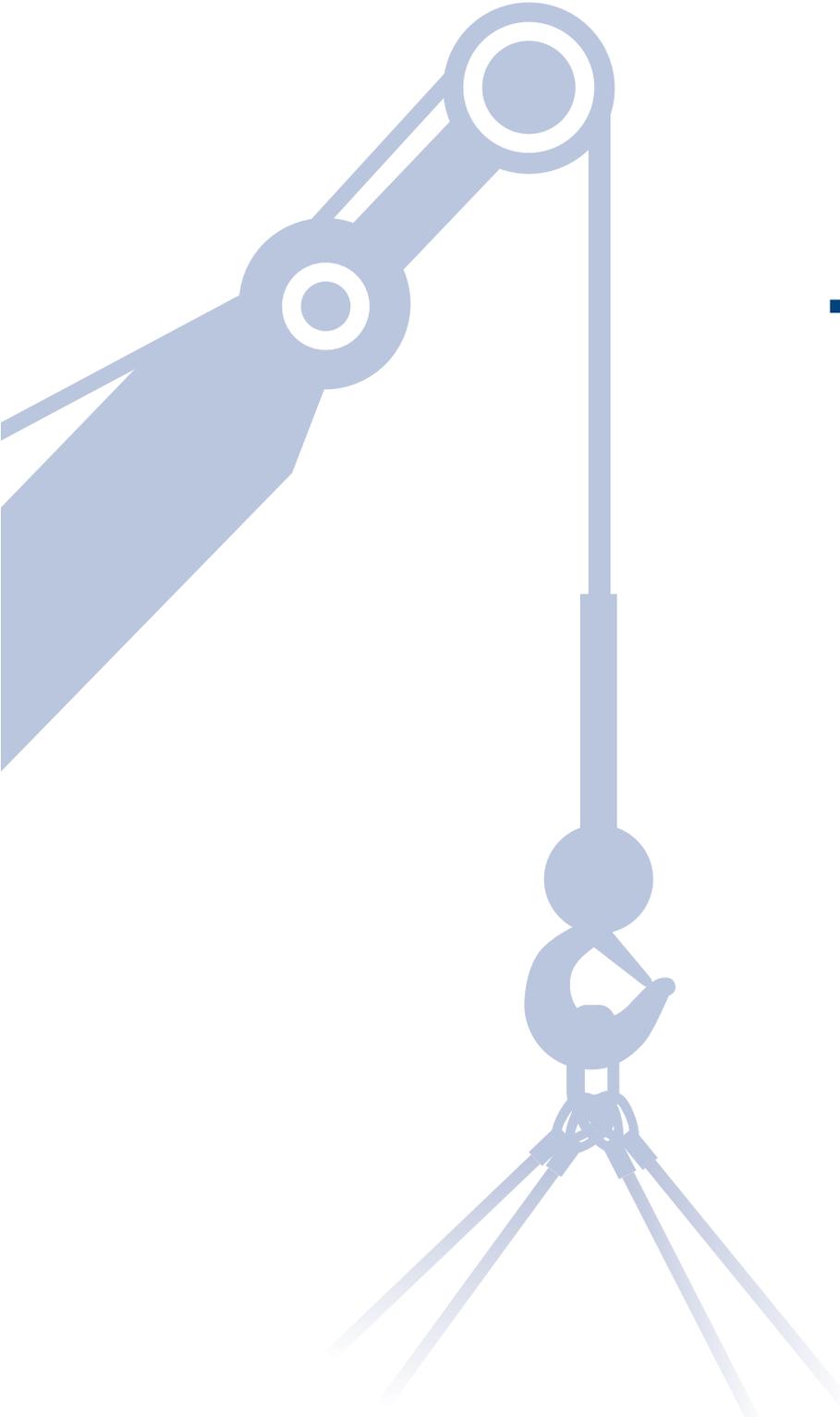
TEREX RT175

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These pages are reproduced for illustration only and not as a substitute for reviewing the entire manual for a particular crane.

Make sure that you are fully trained on, and review the entire manual for, every crane you operate.

This load chart has been adapted from the original manufacturer's load chart for use in the NCCER Mobile Crane Certification Examination. It is not to be used for calculating loads, planning lifts, or for any other purpose.





TEREX CRANES, INC.

P/N 3232Z515

RT175

CRANE RATING MANUAL

75 U.S. TON

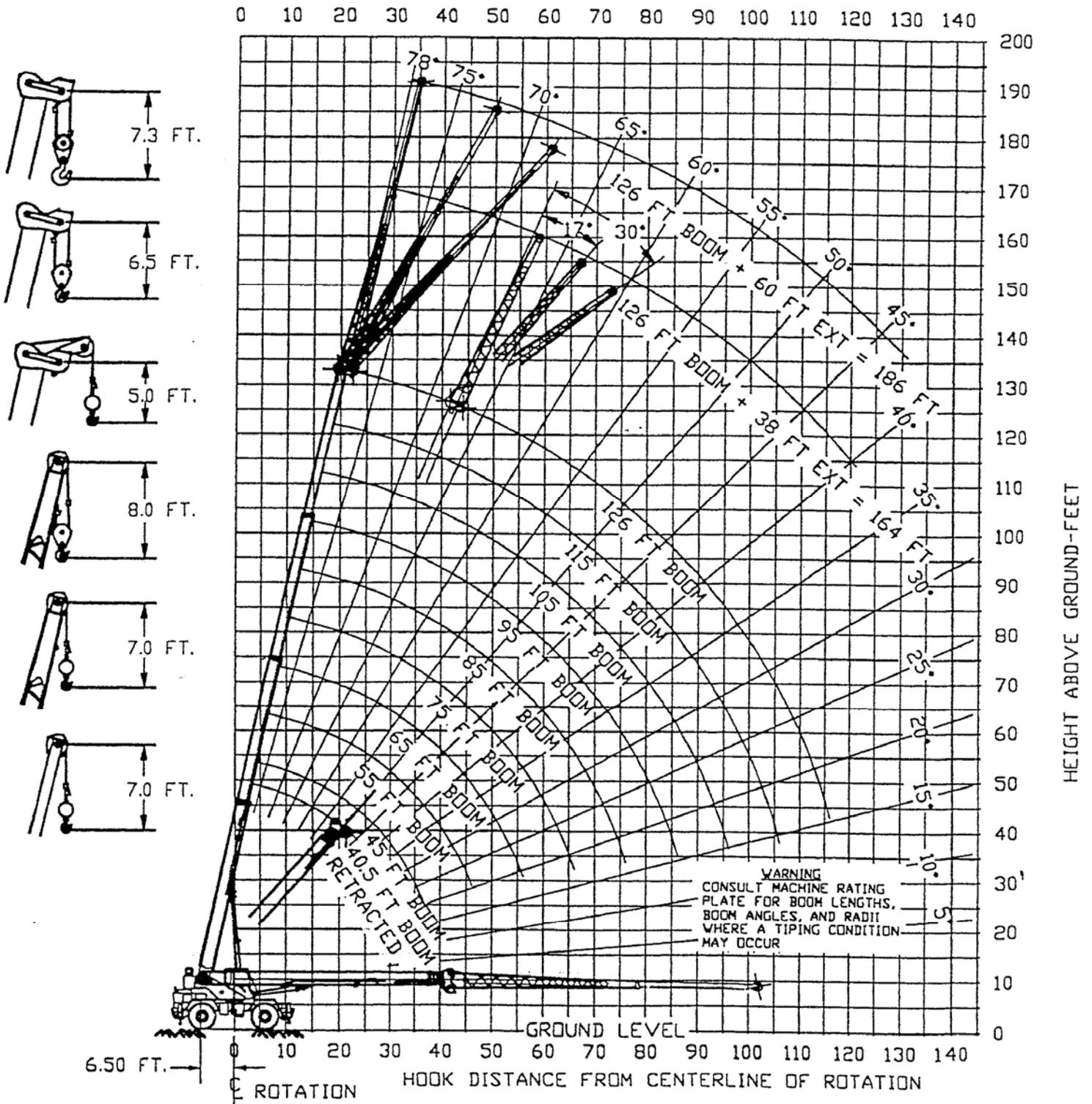
HYDRAULIC CRANE

15200 LB TOTAL COUNTERWEIGHT

Terex Cranes, Inc.
Highway 501 East / P.O. Box 260002
Conway, SC 29528

3232Z516_A

RANGE DIAGRAM RT175 126' FULL POWER BOOM



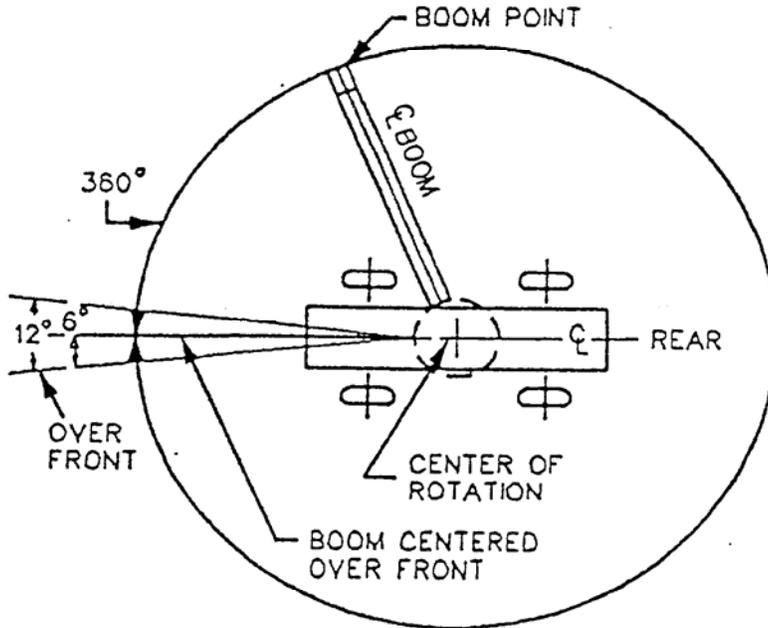
DEFINITIONS

1. **RATED LIFTING CAPACITY:** THE TOTAL SUSPENDED LOAD, INCLUDING THE WEIGHT OF MATERIAL AND LOAD HANDLING EQUIPMENT, THAT THE MACHINE CAN SAFELY LIFT UNDER IDEAL CONDITIONS AT A GIVEN BOOM LENGTH, BOOM ANGLE AND LOAD RADIUS.
2. **LOAD RADIUS:** THE HORIZONTAL DISTANCE MEASURED BETWEEN THE CENTER OF ROTATION AND THE HOIST LOAD LINE OR TACKLE WITH LOAD APPLIED.
3. **LOADED BOOM ANGLE:** THE ANGLE BETWEEN THE LONGITUDINAL CENTERLINE OF THE BOOM BASE SECTION AND THE HORIZONTAL AFTER LIFTING THE RATED LOAD AT THE RATED LOAD RADIUS.
4. **BOOM POINT ELEVATION:** THE VERTICAL DISTANCE MEASURED BETWEEN THE GROUND AND THE BOOM POINT SHEAVE.
5. **FREELY SUSPENDED LOAD:** LIFTED LOAD HANGING FREE WITH NO DIRECT EXTERNAL FORCE APPLIED EXCEPT BY THE HOIST LINE.
6. **SIDE LOAD:** HORIZONTAL FORCE APPLIED TO LIFTED LOAD EITHER ON THE GROUND OR IN THE AIR.
7. **WORK AREAS:** AREA MEASURED IN A CIRCULAR ARC ABOUT THE CENTER LINE OF ROTATION AS SHOWN IN THE AREA OF OPERATION DIAGRAM.
8. **FULLY EXTENDED OUTRIGGERS:** ALL OUTRIGGER BEAMS EXTENDED TO MAXIMUM SPREAD, AND WITH ALL FLOATS DOWN AND SET.
9. **MID POSITION OUTRIGGERS:** ALL OUTRIGGER BEAMS EXTENDED FULLY TO THE MID POSITION POSITIVE STOPS WITH ALL FLOATS DOWN AND SET.
10. **RETRACTED OUTRIGGERS:** ALL OUTRIGGER BEAMS NOT EXTENDED AND ALL FLOATS DOWN AND SET.

WARNING

1. THIS MACHINE MEETS THE REQUIREMENTS OF ANSI B30.5, PCSA #4. UPPER, LOWER, BOOM AND JIB STRUCTURES HAVE BEEN TESTED PER SAE J-106.3. MACHINE STABILITY HAS BEEN TESTED PER SAE J-765. THIS MACHINE ALSO CONFORMS TO THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), UNITED STATES DEPARTMENT OF LABOR, IN EFFECT AT THE TIME OF MANUFACTURE.
2. CRANE LIFTING CAPACITIES SHOWN ARE FOR THIS MACHINE AS ORIGINALLY MANUFACTURED AND EQUIPPED BY TEREX CRANES, INC. THE LIFTING CAPACITIES ONLY APPLY WHEN ALL THE INSTRUCTIONS IN THIS BOOK ARE RIGIDLY FOLLOWED. MODIFICATIONS TO THIS MACHINE OR USE OF EQUIPMENT OTHER THAN THAT SPECIFIED CAN RESULT IN A REDUCTION OF CAPACITY.
3. IF IMPROPERLY OPERATED OR MAINTAINED, THIS MACHINE CAN BE HAZARDOUS. OPERATION AND MAINTENANCE OF THIS MACHINE MUST BE IN COMPLIANCE WITH THE INFORMATION IN THE OPERATORS, SHOP, PARTS AND SAFETY MANUALS FURNISHED. IF THESE MANUALS ARE MISSING, OBTAIN REPLACEMENTS THROUGH TEREX CRANES, INC.
4. REDUCING CRANE LIFTING CAPACITIES FOR THE PARTICULAR JOB SHALL BE ESTABLISHED BY THE USER WITH DUE ALLOWANCE FOR ADVERSE OPERATING CONDITIONS. THESE CONDITIONS INCLUDE THE SUPPORTING SURFACE, PENDULUM ACTION OF THE LOAD, JERKING OR SUDDEN STOPS OF THE LOAD AND OTHER FACTORS AFFECTING STABILITY. TWO MACHINE LIFTS, ELECTRICAL WIRES, ADVERSE WEATHER, WIND, HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, ETC.
5. CRANE LIFTING CAPACITIES ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. DEPENDING ON THE NATURE OF THE SUPPORTING SURFACE, IT MAY BE NECESSARY TO HAVE STRUCTURAL SUPPORTS UNDER THE OUTRIGGER FLOAT TO DISTRIBUTE THE FLOAT LOAD AND INSURE THAT THE GROUND BEARING CAPACITY OF THE SUPPORTING SURFACE IS NOT EXCEEDED. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
6. SIDE LOADING OF THE MACHINE AND LOAD SWING OUT MAY CAUSE STRUCTURAL FAILURE OR MACHINE TIP-OVER. SIDE LOADS MAY BE GENERATED BY: LIFTING WHEN NOT LEVEL; SWINGING WHEN NOT LEVEL; DRAGGING A LOAD, SUDDEN ACCELERATION OR DECELERATION IN SWINGING; WIND FORCES ON LOAD AND BOOM STRUCTURE; PUSHING A LOAD.
7. 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 BOOM DEFLECTION INCREASING RADIUS AS THE LOAD IS LIFTED.
8. POWERED BOOM SECTIONS MUST BE EXTENDED AND RETRACTED EQUALLY.
9. RATED LIFTING CAPACITIES ARE BASED ON CORRECT REEVING. DEDUCTION MUST BE MADE FOR EXCESSIVE REEVING. ANY REEVING OVER THE MINIMUM REQUIRED (SEE WIRE ROPE STRENGTH TABLE) IS CONSIDERED EXCESSIVE AND MUST BE ACCOUNTED FOR. USE WORKING RANGE DIAGRAM TO ESTIMATE THE EXTRA FEET (METERS) OF WIRE ROPE THEN DEDUCT 1 POUND FOR EACH FOOT (1.5 KG FOR EACH METER) OF EXCESSIVE WIRE ROPE BEFORE ATTEMPTING TO LIFT A LOAD.
10. POSITIONING OR OPERATING AT A RADIUS OR BOOM LENGTH BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, IS NEITHER INTENDED OR APPROVED.
11. WHEN EITHER BOOM LENGTH OR RADIUS OR BOTH ARE BETWEEN VALUES LISTED, THE NEXT SMALLER RATED LIFTING CAPACITY AT EITHER THE NEXT LARGER OR NEXT LONGER OR SHORTER BOOM LENGTH SHALL BE USED.
12. POSITIONING OR OPERATION OF LATTICE EXTENSION OR JIB AT BOOM ANGLES BEYOND THE MAXIMUMS OR MINIMUMS SHOWN IS NEITHER INTENDED OR APPROVED.
13. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE RATING CHART. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE AND POWERED BOOM SECTIONS LUBRICATION.

AREAS OF OPERATION -TIRES- "ON TIRES" WORK AREA



NOTE: THESE LINES DETERMINE THE
LIMITING POSITION OF ANY LOAD FOR
OPERATING WITHIN WORKING AREAS
INDICATED.

2080 MAIN & AUXILIARY HOIST REEVING 6 X 37										
.75 INCH (19 mm) DIA. ROPE BREAKING STRENGTH 58800 LB. (26600 KG)										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD-LBS.	15000	30000	45000	60000	70700					
MAXIMUM LOAD-KGS.	6800	13600	20400	27200	32000					

1580 AUXILIARY HOIST REEVING 6 X 37										
.75 INCH (19 mm) DIA. ROPE BREAKING STRENGTH 58800 LB. (26600 KG)										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD-LBS.	12000	24000	36000	48000	60000	70700				
MAXIMUM LOAD-KGS.	5400	10800	16300	21700	27200	32000				

1580 AUXILIARY HOIST REEVING 8 X 19 ROTATION RESISTANT										
.75 INCH (19 mm) DIA. ROPE BREAKING STRENGTH 51800 LB. (23500 KG)										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD-LBS.	10350	20700	31050	41400	51750	62100	70700			
MAXIMUM LOAD-KGS.	4600	9300	14000	18700	23400	28100	32000			

OPERATION ON TIRES

1. READ AND UNDERSTAND ALL WARNINGS AND INSTRUCTIONAL NOTES.
2. CRANE LIFTING CAPACITIES ON TIRES DO NOT EXCEED 75% OF THE TIPPING LOAD.
3. CRANE LIFTING CAPACITIES ON TIRES DEPEND ON TIRE CAPACITY, CONDITION OF THE TIRES AND TIRE AIR PRESSURE. TIRES MUST BE INFLATED TO THE RECOMMENDED PRESSURE BEFORE LIFTING.
4. CRANE LIFTING CAPACITIES REQUIRE LIFTING FROM MAIN BOOM HEAD ONLY ON A SMOOTH AND LEVEL SURFACE.
5. RATED LIFTING CAPACITIES ABOVE THE BOLD LINE ARE BASED ON THE MACHINES HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY. RATED LIFTING CAPACITIES BELOW THE BOLD LINE ARE BASED ON THE MACHINES STABILITY.
6. RATED LIFTING CAPACITIES INCLUDE THE WEIGHT OF THE HOOK BLOCK, SLINGS AND AUXILIARY LIFTING DEVICES. THEIR WEIGHT MUST BE SUBTRACTED FROM THE LISTED RATED LIFTING CAPACITY TO OBTAIN THE NET LOAD TO BE LIFTED.
7. ADD 150 LBS TO THE CHART VALUES IF THE AUXILIARY BOOM HEAD SHEAVE IS NOT ERECTED.
8. FOR PICK AND CARRY OPERATIONS, THE BOOM MUST BE CENTERED OVER THE FRONT OF THE MACHINE, THE MECHANICAL SWING LOCK ENGAGED AND THE LOAD MUST BE RESTRAINED FROM SWING.
9. DO NOT TRAVEL WITH BOOM EXTENSION ERECTED.
10. **CREEP:** MOTION LESS THAN 200 FEET (60 METERS) IN A 30 MINUTE PERIOD AND NOT EXCEEDING 1 MPH (1.6 KM/H).
11. MAXIMUM RECOMMENDED BOOM ANGLE ON TIRES IS 73° WITHOUT LOAD.
12. LIFTING LOADS WITH ERECTED BOOM EXTENSION IS NEITHER INTENDED NOR APPROVED.
13. HANDLING OF PERSONNEL FROM THE BOOM IS NEITHER INTENDED NOR APPROVED.
14. OPERATING PILE DRIVING/EXTRACTING EQUIPMENT ON TIRES IS NEITHER INTENDED NOR APPROVED.

HOOK BLOCK WEIGHTS

9.6 TON BALL HOOK	476 POUNDS
20 TON 1 SHEAVE HOOK BLOCK	420 POUNDS
75 TON 5 SHEAVE HOOK BLOCK	1174 POUNDS

8,7 M TON HOOK BLOCK	213 KG
18.1 M TON 1 SHEAVE HOOK BLOCK	190 KG
69 M TON 5 SHEAVE HOOK BLOCK	533 KG

NOTE: These weights apply only to TEREX Cranes, Inc. supplied equipment.

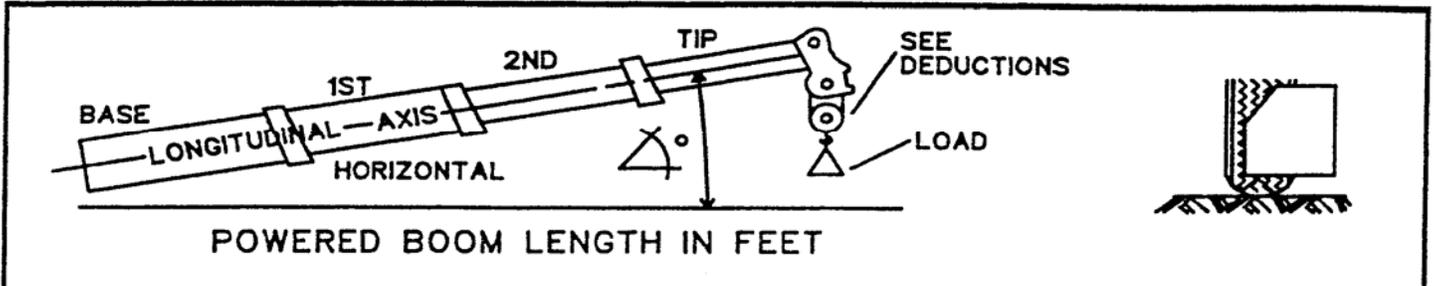
RATED LIFTING CAPACITIES IN POUNDS

LOAD RATINGS ON TIRES - STATIC OVER FRONT +/- 6 DEGREE

MAXIMUM BOOM LENGTH 85 FT.

15200 POUND TOTAL COUNTERWEIGHT

LOAD MOMENT DEVICE (LMI) CODE # 02



LOAD RADIUS FT.	40.5 FT.		45 FT.		55 FT.		65 FT.		75 FT.		85 FT.		LOAD RADIUS FT.
	LOADED BOOM ANGLE	LOAD, LB											
	α°	FRONT											
10	68	70700	71	70200	75	68900							10
12	65	61800	68	61400	72	60400	76	59500					12
15	60	51500	64	51200	69	50600	73	50000	76	49400			15
20	51	39500	56	39500	63	39200	68	38900	71	38500	74	38100	20
25	41	30000	48	30000	57	30000	63	30000	67	30000	71	30000	25
30	28	21400	38	21400	50	21400	58	21400	63	21400	67	21400	30
35					43	16600	52	16600	58	16600	63	16600	35
40					34	12800	46	12800	54	12800	59	12800	40
45							39	10300	48	10300	55	10300	45
50							31	8100	43	8100	50	8100	50
55									37	6700	45	6700	55
60									29	5200	40	5200	60
65											34	4100	65

ZERO DEGREE BOOM ANGLE LOADS (LB) AND RADII (FT.)

	15500		12200		7500		4600		0		0	
	34.0		38.5		48.5		58.5		68.5		78.5	

MINIMUM BOOM ANGLE (DEGREES) FOR INDICATED BOOM LENGTH (NO LOAD)	-2
MAXIMUM BOOM LENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD)	75

TIRE INFLATION DATA - PSI		
TIRE SIZE	ROADING	STATIC
29.5 X 25 - 28 PR	55	75

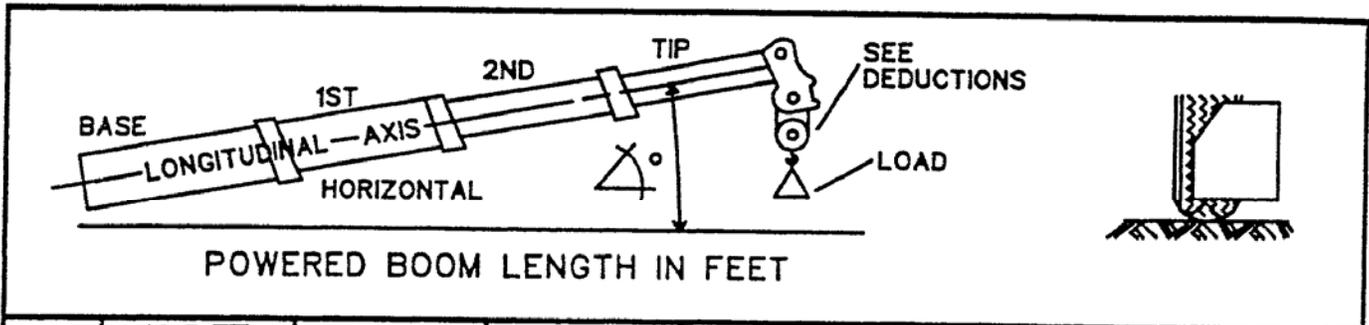
RATED LIFTING CAPACITIES IN POUNDS

LOAD RATINGS ON TIRES - STATIC 360 DEGREE

MAXIMUM BOOM LENGTH 85 FT.

15200 POUND TOTAL COUNTERWEIGHT

LOAD MOMENT DEVICE (LMI) CODE # 02



LOAD RADIUS FT.	40.5 FT.		45 FT.		55 FT.		65 FT.		75 FT.		85 FT.		LOAD RADIUS FT.
	LOADED BOOM ANGLE α°	LOAD, LB											
		360 DEG											
10	68	49200	71	49200	75	49200							10
12	65	41900	68	41900	72	41900	75	41900					12
15	60	33600	64	33600	69	33600	72	33600	75	33600			15
20	51	22200	56	22200	63	22200	67	22200	71	22200	74	22200	20
25	41	14800	48	14800	57	14800	62	14800	67	14800	70	14800	25
30	28	10300	38	10300	50	10300	57	10300	63	10300	66	10300	30
35					43	7800	52	7800	58	7800	62	7800	35
40					34	5600	46	5600	53	5600	58	5600	40
45							39	4000	48	4000	54	4000	45
ZERO DEGREE BOOM ANGLE LOADS (LB) AND RADII (FT.)													
		6800		5000		0		0		0		0	
		34.0		38.5		48.5		58.5		68.5		78.5	

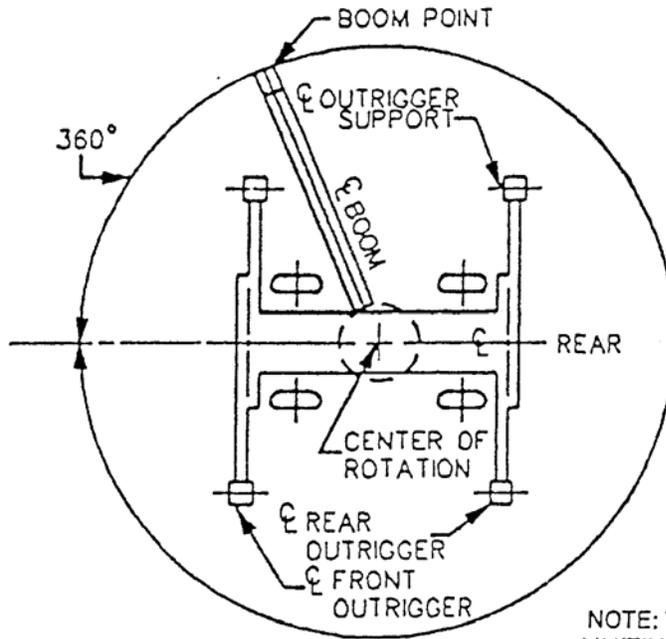
MINIMUM BOOM ANGLE (DEGREES) FOR INDICATED BOOM LENGTH (NO LOAD)	-2
MAXIMUM BOOM LENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD)	55

TIRE INFLATION DATA - PSI		
TIRE SIZE	ROADING	STATIC
29.5 X 25 - 28 PR	55	75

OPERATION ON OUTRIGGERS

1. READ AND UNDERSTAND ALL WARNINGS AND INSTRUCTIONAL NOTES.
2. RATED LOADS FOR FULLY EXTENDED OUTRIGGERS DO NOT EXCEED 85% OF THE TIPPING LOAD AS DETERMINED BY SAE CRANE STABILITY TEST CODE J765.
3. THE TIRES SHALL BE RAISED CLEAR OF THE GROUND AND FREE OF CRANE WEIGHT BEFORE OPERATING BOOM OR LIFTING LOADS.
4. ALL OUTRIGGER BEAMS MUST BE EXTENDED TO THE SAME LENGTH; FULLY EXTENDED, MID POSITION OR FULLY RETRACTED.
5. RATED LIFTING CAPACITIES ABOVE THE BOLD LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY. RATED LIFTING CAPACITIES BELOW THE BOLD LINE ARE BASED ON THE MACHINE'S STABILITY.
6. RATED LIFTING CAPACITIES INCLUDE THE WEIGHT OF HOOK BLOCK, SLINGS AND AUXILIARY LIFTING DEVICES. THEIR WEIGHT MUST BE SUBTRACTED FROM THE LISTED RATED LIFTING CAPACITY TO OBTAIN THE NET LOAD TO BE LIFTED.
7. WHEN LIFTING OVER THE LATTICE EXTENSION THE WEIGHT OF ANY HOOK BLOCK, SLINGS, AND AUXILIARY LIFTING DEVICES AT THE MAIN BOOM HEAD MUST BE ADDED TO THE LOAD
8. WHEN THE LATTICE EXTENSION IS ERECTED BUT UNUSED ADD THREE (3) TIMES THE WEIGHT OF ANY HOOK BLOCK, SLINGS, AND AUXILIARY LIFTING DEVICES AT THE EXTENSION HEAD TO THE LOAD. OUTRIGGERS MUST BE IN THE FULLY EXTENDED POSITION WHEN LIFTING AT THE MAIN BOOM HEAD WITH THE LATTICE EXTENSION ERECTED.
9. ADD 150LB TO THE CHART VALUES IF THE AUXILIARY BOOM HEAD SHEAVE IS NOT ERECTED.

AREAS OF OPERATION -OUTRIGGERS- "ON OUTRIGGERS" WORK AREA



NOTE: THESE LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATING WITHIN WORKING AREAS INDICATED.

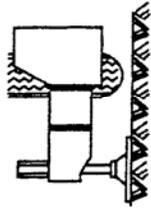
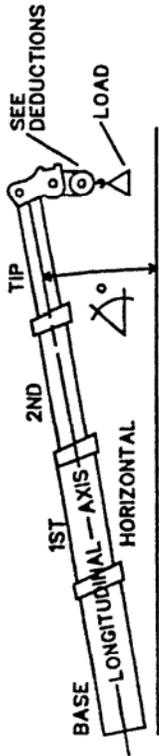
2080 MAIN & AUXILIARY HOIST REEVING 6 X 37										
.75 INCH (19 mm) DIA. ROPE BREAKING STRENGTH 58800 LB. (26600 KG)										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD-LBS.	15000	30000	45000	60000	75000	90000	105000	120000	135000	150000
MAXIMUM LOAD-KGS.	6800	13600	20400	27200	34000	40800	47600	54400	61200	68100

1580 AUXILIARY HOIST REEVING 6 X 37										
.75 INCH (19 mm) DIA. ROPE BREAKING STRENGTH 58800 LB. (26600 KG)										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD-LBS.	12000	24000	36000	48000	60000	72000	84000	96000	108000	120000
MAXIMUM LOAD-KGS.	5400	10800	16300	21700	27200	32600	38100	43500	49000	54400

1580 AUXILIARY HOIST REEVING 8 X 19 ROTATION RESISTANT										
.75 INCH (19 mm) DIA. ROPE BREAKING STRENGTH 51800 LB. (23500 KG)										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD-LBS.	10350	20700	31050	41400	51750	62100	72450	82800	93150	103500
MAXIMUM LOAD-KGS.	4600	9300	14000	18700	23400	28100	32800	37500	42200	46900

RATED LIFTING CAPACITIES IN POUNDS

40.5 FT. - 126 FT. BOOM ON FULLY EXTENDED OUTTRIGGERS - 360 DEGREE
 15200 POUND TOTAL COUNTERWEIGHT
 LOAD MOMENT DEVICE (LMI) CODE # 04



POWERED BOOM LENGTH IN FEET

LOAD RADIUS FT.	40.5 FT.		45 FT.		55 FT.		65 FT.		75 FT.		85 FT.		95 FT.		105 FT.		115 FT.		126 FT.			
	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG	LOADED BOOM ANGLE X°	LOAD, LB 360 DEG		
10	68	150000	71	102000	75	95000															10	
12	65	116000	68	100000	73	94700	76	80500														12
15	60	92500	64	91700	69	89000	73	73500	76	61000												15
20	52	69600	56	69500	63	69000	68	64000	72	55700	74	48200	76	40000								20
25	41	55700	48	55200	57	54600	63	54000	68	48500	71	42200	73	38300	76	33500	77	32000				25
30	28	46400	38	46000	51	45300	58	45000	63	44500	67	39000	70	34000	73	31000	75	28500	77	26000		30
35			25	36000	43	35800	52	35400	59	35000	63	33400	67	30200	70	28000	72	25000	74	22500		35
40					34	28300	46	28000	54	27800	59	27200	64	26900	67	24900	70	22800	72	20800		40
45					22	24800	40	25200	49	23100	55	22500	60	21900	64	21100	67	20300	70	18900		45
50							32	20700	43	21000	51	21200	56	18900	60	18400	64	17900	67	17100		50
55							21	17200	37	17500	46	17700	52	17800	57	17200	61	16000	64	15500		55
60									30	14700	41	14900	48	15100	54	15200	58	15300	62	14100		60
65									20	12400	35	12600	44	12800	50	12900	55	13100	59	13200		65
70											28	10800	39	10900	46	11100	51	11200	56	11300		70
75											19	9200	33	9400	42	9500	48	9600	53	9700		75
80													27	8000	37	8100	44	8300	50	8400		80
85													18	6800	32	7000	40	7100	47	7200		85
90															26	6000	36	6100	43	6200		90
95																	31	5200	39	5300		95
100																			35	4500		100
110																			25	3100		110.0

ZERO DEGREE BOOM ANGLE LOADS (LB) AND RADII (FT.)

	24500	20500	15600	11700	9200	6600	4700	2000	0
	34.0	38.5	48.5	58.5	68.5	78.5	88.5	98.5	108.5

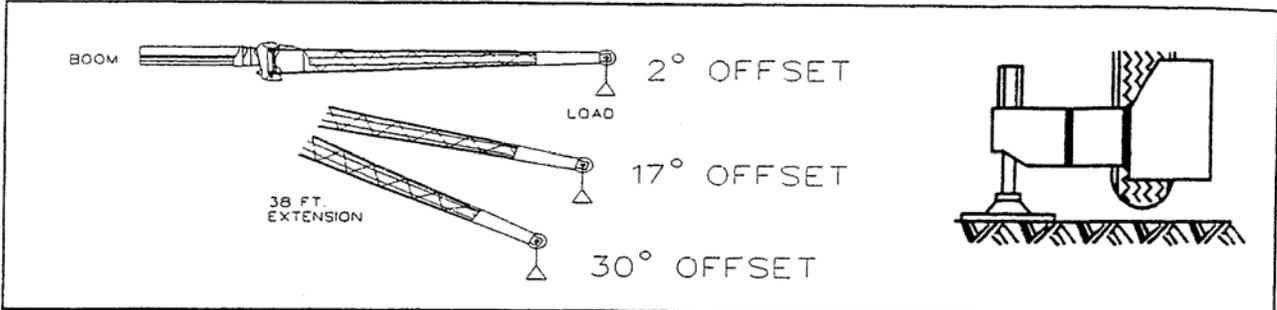
MINIMUM BOOM ANGLE (DEGREES) FOR INDICATED BOOM LENGTH (NO LOAD) _____ -2
 MAXIMUM BOOM LENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD) _____ 126

RATED LIFTING CAPACITIES IN POUNDS

126FT BOOM FULLY EXTENDED
 126FT BOOM + 38FT EXTENSION = 164FT TOTAL
 FULLY EXTENDED OUTRIGGERS - 360 DEGREE

15200 POUND TOTAL COUNTERWEIGHT

LOAD MOMENT DEVICE (LMI) CODES # 11, 12, 13



CODE #11		REF. LOAD RADIUS FT. FOR 164 FOOT BOOM ONLY
2 DEG EXT OFFSET WITH STINGER RETRACTED		
FOR BOOM LENGTHS > 128.0 FT - 164 FT		
LOADED BOOM ANGLE	LOAD, LB	
α°	360	
77	11200	40
75	10500	45
74	9900	50
72	9300	55
70	8800	60
68	8300	65
67	7800	70
65	7400	75
63	7000	80
61	6600	85
59	6000	90
54	5000	100
49	3600	110
44	2400	120

CODE #12		REF. LOAD RADIUS FT. FOR 164 FOOT BOOM ONLY
17 DEG EXT OFFSET WITH STINGER RETRACTED		
FOR BOOM LENGTHS > 128.0 FT - 164 FT		
LOADED BOOM ANGLE	LOAD, LB	
α°	360	
77	8700	50
75	8400	55
73	8000	60
72	7700	65
70	7300	70
68	6900	75
66	6500	80
64	6200	85
62	5900	90
57	5500	100
52	4000	110
46	2800	120

CODE #13		REF. LOAD RADIUS FT. FOR 164 FOOT BOOM ONLY
30 DEG EXT OFFSET WITH STINGER RETRACTED		
FOR BOOM LENGTHS > 128.0 FT - 164 FT		
LOADED BOOM ANGLE	LOAD, LB	
α°	360	
77	6800	55
75	6500	60
74	6400	65
72	6200	70
70	6000	75
68	5800	80
66	5700	85
63	5500	90
59	5200	100
54	4300	110
48	3000	120

REFERENCE LOAD RADIUS IS FOR 164 FT. BOOM ONLY
 FOR BOOM LENGTHS LESS THAN 164 FT., USE BOOM ANGLES ONLY

MINIMUM BOOM ANGLE (DEG) FOR INDICATED BOOM LENGTH (NO LOAD)	-2
MAXIMUM BOOM LENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD)	75

LIFTING CAPACITIES - 360 DEGREE AT 0 DEG. BOOM ANGLE						
AREA OF OPERATION	BOOM ANGLE	MAIN BOOM LENGTH IN FEET, LOAD IN POUNDS				
		40.5	45.0	55.0	65.0	75.0
360 DEGREE	0°	2400	2400	2400	2400	0