



TEREX T 750 Truck Crane



FEATURES

- 75 ton (68 mt) maximum lifting capacity
- 126 ft. (38.4 m) maximum boom length
- 192 ft. (58.5 m) maximum tip height
- Four-section full power boom with single lever control
- Swingaway jib offsettable 0°, 17° or 30°

- · Two-speed main and auxiliary winches
- Quick-reeving boom head and hook block
- Fully independent multi-position out and down outriggers
- Environmental operator's cab optimizes load visibility and productivity
- Travel speeds to 55 mph (88 km/h)
- Tight 42 ft. 9 in. (13 m) turning radius

- Easy to read load chart books include range diagrams
- 12-month or 2000 hours warranty, major weldments are 5-years or 10,000 hours

simple, available and cost effective $^{\text{\tiny TM}}$

Machines shown may have optional equipment.



TEREX T 750

Truck Crane

Max. Lifting Capacity: 75 tons (68 mt)

126 ft. (38.4 m) FOUR-SECTION, FULL-POWER BOOM WITH SINGLE LEVER CONTROL

- · High strength, four plate construction.
- Two double-acting boom hoist cylinders provide boom elevation of -2° to 78° for easier reeving changes and close radius operation.
- Quick-reeving boom head; no need to remove wedge from socket.

ENVIRONMENTAL OPERATOR'S CAB - UPPER

- Rated Capacity Indicator (RCI) system including anti-two block system with automatic function disconnects.
- Fully adjustable operator's seat has shock-absorbing suspension and adjustable arm rests.
- Sound and weather insulated for comfort.
- Hinged tinted skylight and sliding right-hand, rear and door windows, roof wiper.
- Armrest mounted joystick or twin lever controls for swing, auxiliary winch, main winch and boom hoist; foot control pedals for swing brake, boom telescope and engine throttle.
- Complete instrumentation.
 Environmentally-sealed rocker switches. Circuit breakers in cab.



RUGGED, EASY-TO-MANEUVER CARRIER

- 10 ft. (3 m) wide chassis is Terex designed and built with 8 x 4 drive.
- Full aluminum decking, fenders and rims.
- Ground level outrigger controls are built into rear fenders.
- 13 forward, 2 reverse RoadRanger transmission.
- Dual circuit, air self-adjusting front and rear service brakes.
- Fully independent hydraulic outriggers may be utilized fully extended to 23 ft.
 7.5 in. (7.2 m), in their mid extended position or fully retracted positions.
- 414 HP (309 kw) Detroit Diesel S60 engine.

POWERFUL, TWO-SPEED WINCHES

- 456 fpm (181 mpm) maximum line speed, 20,400 lbs. (9250 kg) maximum line pull. Single lever control.
- · Integral automatic brake.

- · Electronic drum indicators.
- · Winch drum rollers.

HIGH CAPACITY, DEPENDABLE HYDRAULIC SYSTEM

- Two tandem gear-type pumps driven off front of carrier engine. Combined system capability is 158 gpm (598 lpm).
- Hydraulic reservoir with 177 gal. (615 I) capacity and full flow oil filtration system.

OPTIONS INCLUDE:

- 38 ft. or 38 to 60 ft. (11.6 or 11.6 to 18.3 m) swingaway jib. Both offset 0°, 17° or 30°.
- Auxiliary winch with rope and drum roller.
- Heater/defroster, air conditioner for operator's cab; air conditioner for carrier cab.
- · Cold weather kit for carrier cab.

For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Cranes Distributor.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty applicable to the particular product and sale. We make no other warranty, expressed or implied.



Highway 501 East/P.O. Box 260002 Conway, SC 29528-6002 USA (843) 349-6900 • FAX: (843) 349-7090 E-mail: conway@terexlifting.com

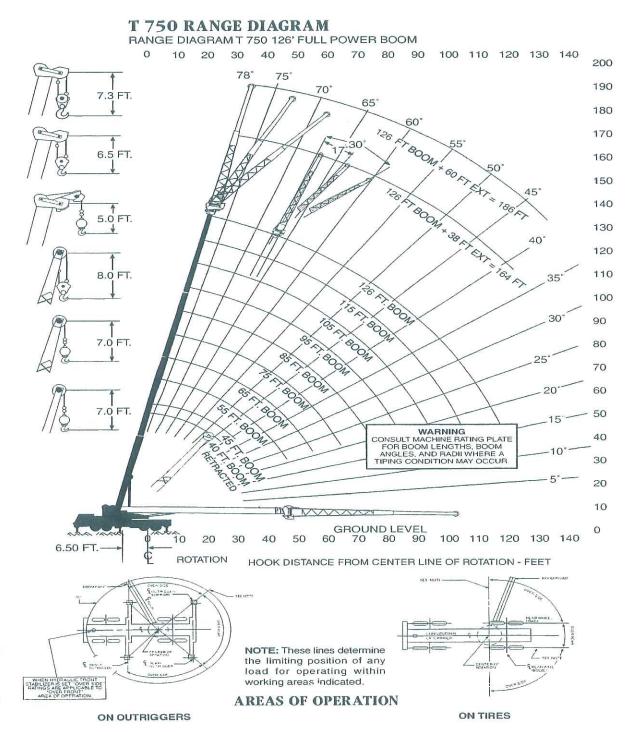




TEREX T750

Range diagram & lifting capacities

Truck Crane
75 Ton Capacity



HEIGHT ABOVE GROUND-FEET

40.5 - 126 FT BOOM ON FULLY EXTENDED OUTRIGGERS - 360° 9700 POUND TOTAL COUNTERWEIGHT

9700 POUND TOTAL COUNTERWEIGHT

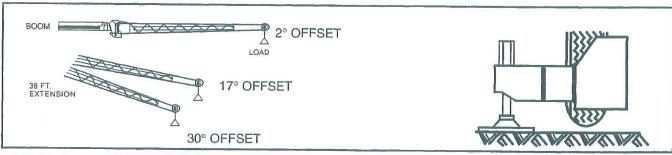
	T	-	5		_			1	Т	7	7	T	7	7	Т	Т	Т	T	T	1	T	7	Т	_	garan.	\neg
6		LOAD	Ħ	10	12	15	20	52	30	32	40	45	20	55	09	99	2	75	80	82	06	95	100			
	FF	LOAD, LB	SIDE						22500	20500	18800	17100	15700	14800	12700	10600	8800	7400	6100	2000	4100	3300	2500			
	126	LOADED	ANGLE						92	74	72	69	- 67	64	61	58	26	53	49	46	43	39	35			
	FT	LOAD, LB	SIDE					2B200	25400	23100	21000	19200	17500	15200	12600	10500	8700	7300	0009	2000	4000	3200	2400		•	
	115		ANGLE					77	74	72	69	99	64	61	57	54	51	47	44	40	35	30	24		-	
		LOAD, LB	SIDE					31600	28800	25800	23200	21000	18300	15100	12500	10400	8700	7200	0009	4900	3900	3100			9	0 (98.5)
	105 F		ANGLE					75 3			99	_	-			49 1	46	41	37	31	25	17				
	-	LOAD, LB BO	SIDE				40000	36300	32400	29500	26700	21900	18300	15100	12600	10500	8800	7300	6100	5000				T.)	"	3200 (88.5)
	95 FT	-	ANGLE &				76 4(73 36		-	63 26	-	H	52 1			38					_	-	ADII (F		0
(— 11 12	-	-		-			_	_	-		-		-	-									-	B) / (B	1 / / (0.	2 2
H.	OWERED BOOM LENGTH IN FEET 75 FT 85 FT	2000		-	-		-	N DO A	1004	4700 (78.5)																
LENG		LOAD	ANGLE ANGLE				74	70	67	63	59	55	20	46	40	35	28	18					-	0 1 11	בו ב	0
BOOM		-	SIDE			61000	55700	48500	44500	35000	27800	22100	17900	14700	12100	10000								PEE BOOM ANOTE LOADS (LB) / (BADII (ET.))	JIM AING	6300
TIONS		LOADED	ANGLE			75	71	67	63	58	24	48	43	37	20	19								200	בה שכ	0
SEE DEDU	12	LOAD, LB	SIDE	101101111111111111111111111111111111111	77800	73200	64000	54000	45000	35400	27600	21000	17700	14400										0000	עבאט טבטאו	8600
0000	C.	LOADED	ANGLE	+	75	73	68	63	28	22	4E	30	34	2.6	-									72.0	7117	0
		DAD. LB	_	T	04700	80000	00069	SARON	45100	35400	27300	04000	21000													12300
ON NO		-	ANGLE	77	1,0	27	63	22	2 02	42	200	+ 00	777									I				0
NA NA		LOAD. LB	SIDE	102000	100000	01700	69500	55200	74700	24800	24000															18700
IST IST	1	-	ANGLE	Į,	- 5	00	75	70	90	00	63			1												0
BASE 1ST AXIS TONGITUDINAL AXIS TONGITUDINAL HORIZO		DAD IR		T	00000	116000	60600	20000	22600	44300															9	23000
• 4	3	LOADED 1	ANGLE	18	3 6	20 20	2 00	2 44	4 00	60		1									T					0
			RADIUS FT.		2	77	0 6	2 2	0 8	9 5	S S	40	45	20 1	200	8 2	200	0 1	00	28	82	36	92	100		

MIN. BOOM ANGLE (DEG) FOR INDICATED BOOM LENGTH (NO LOAD)	-,
MAX BOOM I ENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD)	105



126 FT BOOM FULLY EXTENDED 126 FT. BOOM PLUS EXTENSION FULLY EXTENDED OUTRIGGERS - 360°

9700 POUND TOTAL COUNTER WEIGHT



2 DEG EX STINGE	T OFFSET WITH R RETRACTED	REF. LOAD
	OM LENGTHS FT - 164 FT	RADIUS FT.
LOADED BOOM ANGLE 本。	LOAD, LB 360°	FOR 164 FOOT BOOM ONLY
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	6900	80
60	5800	85
58	4800	90
_53	3200	100
THE RESERVE OF THE PERSON NAMED IN		

Contract of the last of the la		
17 DEG E STINGE	XT OFFSET WITH R RETRACTED	REF.
	OM LENGTHS FT - 164 FT	RADIUS FT.
LOADED BOOM ANGLE	LOAD, LB 360°	FOR 164 FOOT BOOM ONLY
77	8700	50
75	8400	55
73	8000	60
72	7700	65
70	7300	70
68	6900	75
66	6500	80
64	6200	85
61	5600	90
56	3800	100
51	2400	110

COLUMN TO THE PARTY OF THE PART		
	XT OFFSET WITH R RETRACTED	REF. LOAD
	OM LENGTHS FT - 164 FT	RADIUS FT.
LOADED BOOM ANGLE	LOAD, LB 360°	FOR 164 FOOT BOOM ONLY
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	4300	100
53	2800	110

	T OFFSET WITH R EXTENDED	REF. LOAD
	OM LENGTHS FT - 186 FT	RADIUS FT.
LOADED BOOM ANGLE	LOAD, LB 360°	FOR 186 FOOT BOOM ONLY
77	7100	45
76	6800	50
75	6600	55
73	6300	60
72	6100	65
70	5700	70
_68	5500	75
67	5300	80
65	5200	85
64	5100	90
60	4600	.100
56	3300	110
51	2200	120

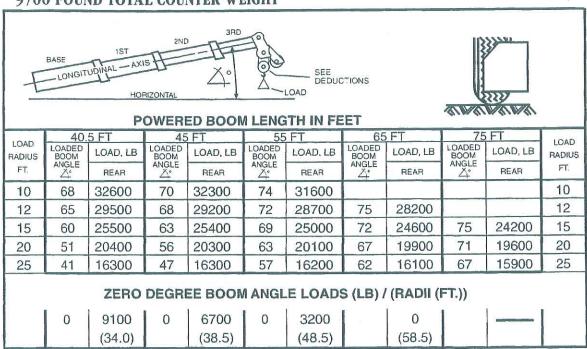
	XT OFFSET WITH ER EXTENDED	REF.
	OM LENGTHS FT - 186 FT	RADIUS FT.
LOADED BOOM ANGLE ご	LOAD, LB 360°	FOR 186 FOOT BOOM ONLY
77	5000	60
76	4900	65
74	4600	70
72	4400	75
71	4200	80
69	4100	85
67	3900	90
64	3. 30	100
60	3400	110
56	2900	120
51	1900	130

30 DEG EX STINGE	XT OFFSET WITH ER EXTENDED	REF. LOAD
	OM LENGTHS FT - 186 FT	RADIUS FT.
LOADED BOOM ANGLE 公°	LOAD, LB 360°	FOR 186 FOOT BOOM ONLY
77	3700	70
76	3600	75
74	3500	80
72	3300	85
70	3200	90
67	3100	100
63	3000	110
59	2700	120
54	2100	130



40.5 - 75 FT BOOM ON TIRES CREEP - OVER REAR

9700 POUND TOTAL COUNTER WEIGHT



MINIMUM BOOM ANGLE (DEG) FOR INDICATED BOOM LENGTH (NO LOAD)	-2
MAXIMUM BOOM LENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD)	65

TIRE	INFLATION CHART	
TIRE SIZE	ROADING	CREEP
14.00R20	90	105
315/80R22.5	115	115
425/65R22.5	120	120

		208	& MAIN 0	AUXILIAF	RY HOIST	REEVING	6 X 37					
	.75 INCH (19mm) DIAMETER 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		

	.75 INCH		IST REEV				-	B. (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	100530
MAXIMUM LOAD-KGS.	4600	9300	14000	18700	23400	28100	32800	37500	42200	46900

40.5 - 126 FT BOOM ON FULLY EXTENDED OUTRIGGERS - OVER REAR 9700 POUND TOTAL COUNTERWEIGHT LOAD MOMENT DEVICE (LMI) CODE # 04

9700 POUND TOTAL COUNTERWEIGHT

		LOAD	Ē	10	12	15	20	25	30	35	40	45	20	55	09	65	.70	75	80	85	90	95	100	110		
	126 FT	LOAD, LB R	REAR						22500	20500	18800	17100	15700	14800	13600	12100	10300	8800	7500	6300	5300	4500	3700	2300		0 (119.5)
		LOADED	14					1	1	1	72	69	29	64	19	59	26	53	20	46	43	39	35	25		0
		LOAD, LB	REAR					28200	25400	23100	21000	19200	17500	16000	4200	12000	10200	8700	7400	6300	5300	4400	3600			0 (308 5)
	115 F	LOADED LC					+	77 2	74 2	72 2	69 2	99	1	61 1	1		1	48	44	40	35	30	24			0
		LOAD, LB	REAR					31600	28800	25800	23200	21000	18400	16700	14100	12000	10200	8600	7300	6200	5200	4300				2500
	105 FI	LOADED LOA					-	+	72 28		-		+	H	53 14	-	-	41 8	-	32 6	25 5					
	-		REAR 2				-																1	0 00		
	95 FT	ED LOAD, LB					-		32400	29500	26700	21900	-	16800	-	12100	-	8800		6300					DII (FT.)	3400
	-	LB LOADED BOOM) 76	-	07 70		0 63	09 00	99 29					33	26	17					3) / (RA	0 - 0
	85 FT	LOAD.	REAR				48200	42200	39000	33400	27200	22500	19800	16500	13900	11700	0066	8400							ADS (LI	4700
N LENG	8	LOAD	To the				74	70	19	63	59	55	20	46	40	35	28	18			_		\prod		TE LO	0
SEE DEPUCTIONS POWERED BOOM LENGTH IN FEET	I L	LOAD, LB	REAR			61000	55700	48500	44500	35000	27800	23100	19700	16400	13700	11600									OM ANG	6300
	75	BOOM	Ţ.¢Ţ	L		75	7.1	67	63	58	54	49	43	37	29	19									EE BO	0
	旦	LOAD, LB	REAR		77800	73200	64000	54000	45000	35400	28000	23700	19400	16200									1000		ZERO DEGREE BOOM ANGLE LOADS (LB) / (RADII (FT.))	8600
TOOD	65	LOADED	Z°CE		75	73	99	63	58	52	46	39	31	21											ZERC	0
E. J.		LOAD, LB	REAR	95000	94700	00068	00069	54600	45100	35800	28300	23300														12300
#XI	55 FT	LOADED L	ANGLE A	74	72	69	63	57	20	43	34	22														0
2ND AXIS HORIZONTAL		AD, LB	REAR	102000	100000	91700	69500	55200	44700	36000		-														18700
ASE 1ST AXIS LONGITUDINAL — AXIS HORIZ	45 FT	LOADED LC			68 1		-			25																0
NGITUDING	-	D, LB	REAR	150000	116000	92500	00969	55600	44500																	23000
BASE	40.5 FT	LOADED LO.		_		-	51 69	-	28 44								Ĥ						-	H		- 23
	-	LOAD	FT. A	10	-	-		25	-	33	40	45	50	55	90	65	70	75	80	85	06	88	100	110		

MIN. BOOM ANGLE (DEG) FOR INDICATED BOOM LENGTH (NO LOAD) -2
MAX. BOOM LENGTH (FEET) AT -2 DEGREE BOOM ANGLE (NO LOAD) 126



GENERAL NOTES

GENERAL

- 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.
- 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 Operators, Parts and Safety Manuals supplied with this machine. If these manuals are missing,
- Order replacements from the manufacturer thru your distributor.

 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 CRANE, DERRICKS AND HOISTS, ASME/ANSI B30.5.

DEFINITIONS

- 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.
- 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.
- WORKING AREA- Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
- FREELY SUSPENDED LOAD- Load hanging free with no direct External force applied except by the hoist rope.
- SIDE LOAD- Horizontal force applied to the lifted load either on the ground or in the air.
- NO LOAD STABILITY LIMIT- The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to position the boom, when the boom angle is less than the minimum shown on the applicable load chart, because the machine can overturn without any load.

SET-UP

- Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
- 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.
- Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressure in tires. Consult operator's manual for precautions.
- Use of jibs, lattice-type boom extensions, our 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 descriptions of hoist line reeving.
- 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.
- P7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manuals 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 5, unless otherwise specified by the wire rope manufacturer.

OPERATION

- CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
- When either radius or boom length, or both, are between listed values, The smaller of the two listed load ratings shall be used.
- 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 2 times the weight of any Hook block, slings, and auxiliary lifting devices at the jib head to the loads.
- Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping loads as determined by SAE Crane Stability Test Code J765A. Rated loads for partially extended outriggers are determined from the Formula. Rated Load=(Tipping Load 0.1 X Tip Reaction)/ 1.25. Structural strength ratings in chart are indicated with an asterisk *.
- 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* ft. off the center line of the base boom section due to effects of wind, inertia, or both.
 - **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.
- The maximum load that 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.
- Load ratings are dependent upon the crane being maintained according to manufacturers specifications.
- It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom had at all times.
- 13. FOR TRUCK ONLY: 360 deg. capacities apply only to machines equipped with a front outrigger jack and all 5 outrigger jacks properly set. If the front (5) 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 deg. Load ratings in the overside work areas.



DEDUCTIONS TO BE MADE FROM LOAD RATINGS

HOOK BLOCK WEIGHTS

9.2 Ton Ball Hook

476 Pounds

8.3 M Ton Ball Hook

213 Kg.

20 Ton 1 Sheave Hook Block

420 Pounds

18.1M Ton 1 Sheave Hook Block

190 Kg.

75 Ton 5 Sheave Hook Block

1,220 Pounds

68M Ton 5 Sheave Hook Block

443 Kg.

Note: These weights apply only to TEREX, INC supplied equipment.

The load charts for the T750 are net load charts. The deductions to these charts are:

- 1. 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.
- 2. When lifting over the lattice extension of the weight of any hook block, slings, and auxiliary lifting devices at the main boom head must be added to the load.
- 3. 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.
- 4. Add 150 pounds to the chart values if the auxiliary boom head sheave is not erected.
- 5. All other deductions have been taken in the charts.

NOTE: All designs, specifications, and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time and without advance notice. Capacity charts and information printed here are only a guide and may not be complete. They should not be relied upon to operate the crane. The individual load charts and related lifting data on each crane must be understood and govern operation of the crane. Data published herein is informational in nature and shall not be construed to warrant suitability of the machine for any particular purpose as performance may vary with conditions encountered. The only warranty applicable is out standard warranty for this machine.

TEREX CRANES, INC.

P.O. Box 260002 Hwy. 501 East/Atlantic Center Conway, SC 29526-2602 U.S.A. (803) 349-6900 FAX (803) 349-7090



T750-Rev00-E-mail: inquire@terexlifting.com * www.terexlifting.com