



TEREX

RT555

rough terrain crane

55 ton capacity

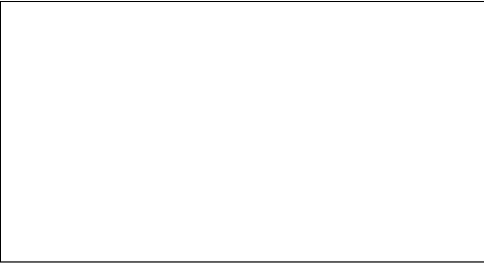
range diagram & lifting capacities

DIMENSIONS ARE FOR
LARGEST FACTORY
FURNISHED HOOK BLOCK
AND HOOK & BALL,
WITH ANTI-TWO BLOCK
ACTIVATED

Range
Diagram
(33'- 110'boom)



CRANE WORKING CONDITIONS



REDUCTION IN MAIN BOOM CAPACITY

All Jibs in Stowed Position	0
Lbs. Aux. Boom in Head	
Sheave	100 Lbs.

HOOK BLOCK WEIGHTS

Hook & Ball	239
Lbs. Hook Block (4	
Sheave)	690 Lbs. Hook Block
(5 Sheave)	888 Lbs. Hook
Block (6 Sheave)	913 Lbs.



Lifting Capacities – Pounds (33'– 110'boom)

MODEL RT 555

COUNTERWEIGHT: STABILITY PCT.
W/AUX. WINCH 13,100 LB ON OUTRIGGERS 85%
W/O AUX. WINCH 14,200 LB ON TIRES 75%
BOOM LENGTH 33-110 FT. PCSA CLASS 10-210
OUTRIGGER SPREAD 22 FT.



CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - FULLY EXTENDED

LOAD RADIUS (FT)	BOOM LENGTH 35 FT			BOOM LENGTH 50 FT			BOOM LENGTH 65 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	LOADED OVER FRONT (LB)	360° (LB)	BOOM ANGLE (DEG)	LOADED OVER FRONT (LB)	360° (LB)	BOOM ANGLE (DEG)	LOADED OVER FRONT (LB)	360° (LB)	
10	66.7	110,000*	110,000*	73.9	60,100*	60,100*				10
12	63.1	96,700*	93,700*	71.5	60,100*	60,100*				12
15	57.5	75,200*	73,100*	67.9	60,100*	60,100*	73.2	58,800*	58,800*	15
20	47.1	53,600*	52,300*	61.5	54,900*	53,600*	68.5	52,200*	52,200*	20
25	34.5	40,700*	39,700*	54.8	42,000*	41,100*	63.7	42,700*	41,700*	25
30	14.8	31,900*	31,200*	47.4	33,400*	32,700*	58.6	34,100*	33,400*	30
35	**			39.0	27,300*	26,700*	53.3	28,000*	27,400*	35
40				28.8	22,000*	21,000*	47.6	22,700*	21,700*	40
45				12.4	17,400*	16,500*	41.3	18,300*	17,400*	45
50				**			34.1	14,900*	14,200*	50
55							25.2	12,300*	11,700*	55
60							16.9	10,100*	9,600*	60
65							**			65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110

USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS
ARE FULLY EXTENDED

ON OUTRIGGERS - FULLY EXTENDED

LOAD RADIUS (FT)	BOOM LENGTH 80 FT			BOOM LENGTH 95 FT			BOOM LENGTH 110 FT			LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
10										10
12										12
15										15
20	72.7	38,700*	38,700*							20
25	68.9	33,600*	33,600*	72.3	29,300*	29,300*				25
30	65.0	29,600*	29,600*	69.1	25,900*	25,900*	72.1	22,900*	22,900*	30
35	61.0	26,500*	26,500*	65.9	23,000*	23,000*	69.3	20,500*	20,500*	35
40	56.8	23,000*	22,000*	62.5	20,800*	20,800*	66.5	18,400*	18,400*	40
45	52.4	18,600*	17,700*	59.1	18,800*	17,900*	63.6	16,500*	16,500*	45
50	47.7	15,300*	14,600*	55.5	15,500*	14,800*	60.7	14,900*	14,900*	50
55	42.7	12,700*	12,100*	51.7	12,900*	12,300*	57.7	13,000*	12,400*	55
60	37.1	10,700*	10,100*	47.8	10,900*	10,400*	54.5	11,000*	10,500*	60
65	30.6	9,000*	8,500*	43.6	9,200*	8,800*	51.3	9,400*	8,900*	65
70	22.6	7,500*	7,100*	39.0	7,900*	7,400*	47.8	8,000*	7,600*	70
75	9.8	6,300*	5,900*	33.9	6,700*	6,300*	44.2	6,800*	6,500*	75
80	**			28.1	5,700*	5,300*	40.4	5,900*	5,500*	80
85				20.8	4,800*	4,400*	36.1	5,000*	4,700*	85
90				9.0	3,900*	3,600*	31.5	4,200*	3,900*	90
95				**			26.5	3,500*	3,200*	95
100							19.3	2,900*	2,400*	100
105							8.4	2,300*	2,100*	105
110							**			110

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 35 FT			BOOM LENGTH 50 FT			BOOM LENGTH 65 FT			BOOM LENGTH 80 FT			BOOM LENGTH 95 FT			BOOM LENGTH 110 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° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)
31.2	20,900*	20,800*	46.2	12,600*	12,700*	61.2	8,200*	8,200*	76.2	5,400*	5,400*	91.2	3,500*	3,300*	106.17	2,100*	1,800*



Lifting Capacities – Pounds (33’– 110’boom)

MODEL RT 555



CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

COUNTERWEIGHT: STABILITY PCT.
W/AUX. WINCH 13,100 LBS ON OUTRIGGERS 85%
W/O AUX. WINCH 14,200 LBS. TIRES 75%
BOOM LENGTH 33-110 FT. PCSA CLASS 10-210
OUTRIGGER SPREAD 22 FT.

ON OUTRIGGERS - MID POSITION

LOAD RADIUS (FT)	BOOM LENGTH 35 FT		BOOM LENGTH 50 FT		BOOM LENGTH 65 FT		BOOM LENGTH 80 FT		BOOM LENGTH 95 FT		BOOM LENGTH 110 FT		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	
10	66.7	87,600*	73.9	60,100*									10
12	63.1	71,400*	71.5	60,100*									12
15	57.5	55,200*	67.9	56,500*	73.2	57,200*							15
20	47.1	38,900*	61.5	40,200*	68.5	40,800*	72.7	38,700*					20
25	34.5	25,800	54.8	27,300	63.7	27,900	68.9	28,200	72.	28,400			25
30	14.8	17,700	47.4	19,400	58.6	19,900	65.0	20,200	3	20,400	72.	20,600	30
35	**		39.0	14,200	53.3	14,900	61.0	15,200	69.	15,400	1	15,500	35
40			28.8	10,700	47.6	11,400	56.8	11,800	1	11,900	69.	12,100	40
45			12.4	8,000	41.3	8,800	52.4	9,200	65.	9,400	3	9,500	45
50			**		34.1	6,800	47.7	7,200	9	7,500	66.	7,600	50
55					26.2	5,200	42.7	5,700	62.	5,900	5	6,000	55
60					10.9	3,800	37.1	4,400	5	4,700	63.	4,800	60
65					**		30.6	3,300	50.	3,600	6	3,800	65
70							22.6	2,400	1	2,700	60.	2,900	70
75							9.8	1,600	55.	1,900	7	2,100	75
80							**		5	1,300	57.	1,500	80
									51.		7		

7
47.
8
43.
6
30
8
44.
2
40.
4

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 35 FT		BOOM LENGTH 50 FT		BOOM LENGTH 65 FT		BOOM LENGTH 80 FT		BOOM LENGTH 95 FT		BOOM LENGTH 110 FT	
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
31.2	16,100*	46.2	7,300	61.2	3,500	76.2	1,400				1

USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS ARE
PINNED IN MID POSITION



Lifting Capacities – Pounds (33’– 110’boom)

MODEL RT 555



CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

COUNTERWEIGHT: STABILITY PCT.
W/AUX. WINCH 13,100 LB ON OUTRIGGERS 85%
W/O AUX. WINCH 14,200 LB ON TIRES 75%
BOOM LENGTH 33-110 FT. PCSA CLASS 10-210
OUTRIGGER SPREAD 22 FT.

ON OUTRIGGERS - RETRACTED

LOAD RADIUS (FT)	BOOM LENGTH 35 FT		BOOM LENGTH 50 FT		BOOM LENGTH 65 FT		BOOM LENGTH 80 FT		BOOM LENGTH 95 FT		BOOM LENGTH 100 FT		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	
10	66.7	67,000	73.9	60,100*									10
12	63.1	46,800	71.5	48,000									12
15	57.5	30,900	67.9	32,100	73.2	32,600							15
20	47.1	17,900	61.5	19,300	68.5	19,700	72.	20,000					20
25	34.5	11,200	54.8	12,600	63.7	13,200	7	13,400	72.	13,600			25
30	14.8	7,000	47.4	8,500	58.6	9,200	68.	9,500	3	9,600	72.	9,70	30
35	**		39.0	5,700	53.3	6,400	9	6,800	69.	6,900	1	0	35
40			28.8	3,700	47.6	4,400	65.	4,800	1	5,000	69.	7,10	40
45			12.4	2,100		2,900	0	3,300	65.	3,500	3	0	45
50					41.3	1,700	61.	2,100	9	2,400	66.	5,10	50
55			**		34.1		0		62.	1,400	5	0	55
					56.		5		63.	3,70			
					8		59.		6	0			
					52.		1		60.	2,50			
					4		55.		7	0			
					47.		5		57.	1,60			
					7		51.		7	0			
							7						

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 35 FT		BOOM LENGTH 50 FT		BOOM LENGTH 65 FT		BOOM LENGTH 80 FT		BOOM LENGTH 95 FT		BOOM LENGTH 100 FT	
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
31.2	6,000	46.2	1,700								

USE THESE CHARTS WHEN
ALL OUTRIGGER BEAMS ARE
NOT IN EITHER THE MID OR
FULLY EXTENDED POSITION

Lifting Capacities – Pounds (33’– 110’boom)

MODEL RT 555

COUNTERWEIGHT: STABILITY PCT.
W/AUX. WINCH 13,100 LBS ON OUTRIGGERS 85%
W/O AUX. WINCH 14,200 LBS. TIRES 75%
BOOM LENGTH 33-110 FT. PCSA CLASS 10-210
OUTRIGGER SPREAD 22 FT.

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS

LOADED BOOM ANGLE (DEG)	32 FT OFFSETABLE JIB/NO PULL OUT INSTALLED						33FTOFFSETABLEJIB/PULL OUT RETRACTED						57 FT OFFSETABLE JIB						LOADED BOOM ANGLE (DEG)
	0° OFFSET		15° OFFSET		30° OFFSET		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)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	
75	38	12,100*	45	8,500*	52	6,600*	38	12,100*	46	8,500*	53	6,600*	46	6,100*	61	4,600*	71	3,400*	7
73	43	11,600*	50	8,200*	57	6,400*	44	11,600*	51	8,200*	58	6,400*	53	6,100*	66	4,400*	77	3,300*	5
71	49	11,100*	56	7,800*	62	6,300*	50	11,100*	57	7,800*	63	6,300*	59	5,900*	73	4,200*	83	3,200*	7
68	56	10,400*	63	7,400*	69	6,000*	57	10,400*	64	7,400*	70	6,000*	67	5,600*	80	3,900*	90	3,100*	3
65	63	9,600*	69	7,100*	75	5,900*	64	8,700*	70	7,100*	76	5,900*	75	5,200*	88	3,700*	96	3,000*	7
62	70	8,500*	75	6,800*	80	5,700*	71	7,100*	76	6,300*	81	5,700*	84	4,800*	95	3,500*	102	2,900*	1
59	76	7,100*	81	6,500*	86	5,500*	78	6,100*	83	5,600*	87	5,200*	93	4,500*	103	3,400*	108	2,800*	6
55	83	5,800*	89	5,300*	92	5,100*	85	4,900*	90	4,400*	93	4,000*	103	3,700*	111	3,200*	114	2,700*	8
51	90	4,600*	95	4,300*	99	4,100*	91	3,900*	97	3,400*	101	3,200*	112	2,800*	118	2,600*	121	2,500*	6
47	97	3,800*	102	3,600*	105	3,400*	98	3,000*	103	2,700*	107	2,600*	120	2,200*	125	2,100*	128	2,000*	5
43	103	3,100*	108	3,000*	111	2,900*	104	2,100*	110	2,100*	112	2,100*	128	1,700*	132	1,600*	135	1,500*	6
38	111	2,400*	115	2,300*	117	2,200*	112	1,500*	117	1,600*	118	1,500*	135	1,200*	139	1,100*	142	1,100*	2
32	119	1,700*	122	1,800*	124	1,700*	120	1,000*	123	1,000*	125	1,000*	143						5
25	126	1,200*	129	1,200*									700						9
17	133	800*																	5

NOTES FOR JIB CAPACITIES

A. For all boom lengths less than the maximum with B. For boom angle not shown, use the capacity of a jib erected, the rated loads are determined by the next lower boom angle.
boom angle only in the appropriate column. C. Listed radii are for extended main boom only.

ON TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	21:00 X 25 28PR					26:5 x 25-26PR					RADIUS (FT)
				PICK & CARRY					PICK & CARRY			
		STATIONARY	CREEP	2.5 MPH	STATIONARY	CREEP	2.5 MPH	STATIONARY	CREEP	2.5 MPH		
		360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	
10	35	46,600*	74,000*	56,300*	47,600*	41,200*	65,100*	49,300*	41,200*			10
12	35	31,200*	64,400*	48,800*	41,100*	34,600*	56,600*	42,500*	35,400*			12
15	35	19,800*	53,600*	40,200*	33,600*	22,900*	46,900*	34,900*	28,800*			15
20	35	12,800*	33,000*	30,300*	25,000*	14,800*	31,600*	26,000*	21,100*			20
25	50	8,900*	20,800*	20,800*	19,200*	9,600*	20,800*	20,000*	15,900*			25
30	50	5,200*	13,300*	13,300*	13,300*	6,200*	14,300*	14,300*	12,100*			30
35	50	3,300*	10,300*	10,300*	10,300*	4,000*	10,600*	10,600*	9,500*			35
40	50	2,200*	8,000*	8,000*	8,000*	2,700*	8,000*	8,000*	7,700*			40
45	65		6,400*	6,400*	6,400*	1,800*	6,400*	6,400*	6,300*			45
50	65	1,300*	5,200*	5,200*	5,200*		5,200*	5,200*	5,100*			50
55	65		4,200*	4,200*	4,200*		4,200*	4,200*	4,100*			55
60	80		3,200*	3,200*	3,200*		3,200*	3,200*	3,200*			60
65	80		2,400*	2,400*	2,400*		2,400*	2,400*	2,400*			65

NOTES FOR ON TIRE CAPACITIES

A. For Pick and Carry operations, boom must be centered over the front of the crane with swing brake and lock engaged. Use minimum boom point height and keep load close to ground surface.
B. The load should be restrained from swinging. NO ON TIRE OPERATION WITH JIB ERECTED.
C. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires to ensure stability.
D. Creep speed is crane movement of less than 200 Ft. (61m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
E. Refer to General Notes for additional information.

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7	8	9	10
MIN & AUX. HOIST	1,250	22,500	33,750	45,000	56,250	67,500	78,750	90,000	101,250	112,500
WIRE ROPE: 5/8" ROTATION RESISTANT 34 x 7 COMPACTED STRAND, GRADE 2160, MINIMUM BREAKING STRENGTH - 28.21 TONS 5/8" 6X19 OR 6X37, XIPS, IWRC, PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 20.6 TONS										

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	21/2 MPH	TRAVEL
21:00 X 25-28 PR	85 PSI	P 85	85 PSI	65 PSI
26:50 X 25-26 PR	65 PSI	PSI	65 PSI	50 PSI

65
PSI

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 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.
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.

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.

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 the two.

**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.



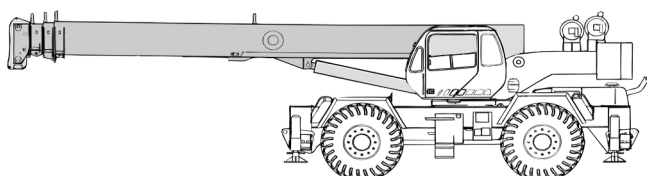
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TEREX RT 500SERIES

rough terrain crane
specifications



STANDARD BOOM EQUIPMENT

BOOM

35-110 ft.(10.67-33.53 m), four section full power boom.

Telescoping is mechanically synchronized with single lever control. The synchronization system consists of a single telescope cylinder and high strength leaf chains to extend and retract the third section and the tip section. The boom is a high-strength four plate design, welded inside and out with anti-friction slide pads. Boom side plates are made with stamped impressions to reduce weight and increase strength. A single boom hoist cylinder provides for boom

elevation of -4 to 76 degrees. Maximum tip height 115 ft. (35.05 m).

BOOM HEAD

Welded to fourth section of boom. Five or six metallic load sheaves and two idler sheaves mounted on heavy duty, anti-friction bearings. Quick reeving boom head. Provision made for side-stow jib mounting.

OPTIONAL BOOM EQUIPMENT

JIBS

32ft. (9.68 m) side stow swing-on one-piece lattice type jib. Single metallic sheave mounted on anti-friction bearing. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 146 ft.(44.50 m).

33-57 ft. (10.15-17.30 m) side stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendible to 57 ft. (17.30 m) by means of a 25 ft. (7.62 m) manual pull-out tip section, roller supported for ease of extension. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 170 ft. (51.82 m).

AUXILIARY BOOM HEAD

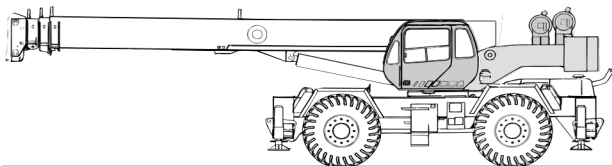
Removable auxiliary boom head has single metallic sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only. Removal is not required for job use.

HOOK BLOCK

Five or six metallic sheaves on anti-friction bearings with hook and hook latch. Quick reeving design does not require removal of wedge and socket from rope.

HOOK & BALL

7ton(6.3mt) top swivel ball with hook and hook latch.



STANDARD UPPERSTRUCTURE EQUIPMENT

UPPERSTRUCTURE FRAME

All welded one-piece structure fabricated with high tensile strength alloy steel. Counterweight is bolted to frame.

TURNTABLE CONNECTION

Swing bearing is a single row, ball-type, with internal teeth. The swing bearing is bolted to revolving upperstructure and to the carrier frame.

SWING

A hydraulic motor drives a double planetary reduction gear for precise and smooth swing function. Swing speed (no load) is 2.8 rpm.

SWING BRAKE

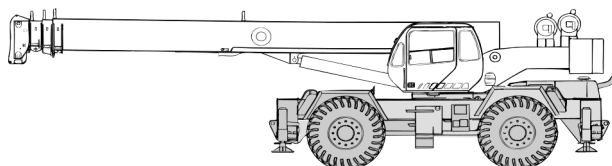
Heavy duty multiple disc swing brake is mechanically actuated from operator's cab by foot pedal. Brake may be locked on or used as a momentary brake. A 360° mechanical house lock is standard.

RATED CAPACITY INDICATOR

Rated Capacity Indicator with visual and audible warning system and automatic function disconnects. Second generation pictographic display includes: boom radius, boom angle, boom length, allowable load, actual load, and percentage of allowable load registered by bar graph. Operator settable alarms provided for swing angle, boom length, boom angle, tip height, and work area exclusion zone. Anti-two block system includes audio/visual function disconnects.

OPERATOR'S CAB

Environmental cab with all steel construction, optimum visibility, tinted safety glass throughout, and rubber floor matting is mounted on vibration absorbing pads. The cab has a sliding door on the left side, framed sliding window on the right side, hinged tinted all glass skylight and removable front windshield to provide



STANDARD CARRIER EQUIPMENT

CARRIER CHASSIS

Chassis is Terex designed with four-wheel drive and four-wheel steer (4x4x4). Has box-type construction with reinforcing cross members, a precision machined turntable mounting plate and integrally welded outrigger boxes. Decking has anti-skid surfaces, including between the frame rails lockable front tool storage compartment, and access steps and handles to the rightsides and on all four corners.

AXLES AND SUSPENSION

Rear axle is a planetary drive/steer type with 10.5 in (0.26 m) of total oscillation. Automatic oscillation lockouts engage when the superstructure is swung 10° in either direction. Front axle is a planetary drive/steer type, rigid mounted to the frame for increased stability.

optimum visibility of the load open or closed. Acoustical foam padding insulates against sound and weather. The deluxe six-way adjustable seat is equipped with a mechanical suspension and includes head and arm rests.

CONTROLS

All control levers and pedals are positioned for efficient operation. Hand operated control levers include swing, boom telescope, boom hoist, winch(s), 360° house lock, shift, and vernier adjustable hand throttle. Switches include ignition, engine stop, two-speed winch(s), lights, horn, windshield wipers, defroster, steering mode, parking brake, and outrigger controls. Foot control pedals include swing brake, boom raise, boom lower, service brakes and accelerator.

INSTRUMENTATION AND ACCESSORIES

In-cab gauges include air pressure, bubble level, tachometer, engine oil pressure, fuel, engine temperature, voltmeter, transmission temperature, and transmission oil pressure. Indicators include low air, high water temperature/low oil pressure/high transmission temperature audio/visual warning, low coolant audio/visual warning, hoist drum rotation indicator(s), and Rated Capacity Indicator. Accessories include fire extinguisher; light package including headlights, tail lights, brake lights, directional signals, four-way hazard flashers, dome light, and back-up lights with audible back-up alarm; windshield washer/wiper; skylight wiper; R.H. and L.H. rear view mirrors; dash lights; and seat belt. Circuit breakers protect electrical circuits.

HYDRAULIC CONTROL VALVES

Valves are mounted on the rear of the upperstructure and are easily accessible. Valves are mechanically operated and include one pressure compensated two spool valve for boom elevation and telescope, one pressure compensated two spool valve for main and auxiliary winch, and one single spool valve for swing. Quick disconnects are provided for ease of installation of pressure check gauges.

OPTIONAL EQUIPMENT

Auxiliary Winch • Heater/Defroster • Hydraulically powered Air Conditioner with or without hydraulic heater • LP or Diesel Heater/Defroster • Work Lights • Rotating Beacon

STEERING

Hydraulic four-wheel full power steering for two-wheel, four-wheel coordinated, or four-wheel crab steer is easily controlled by steering wheel. A rear axle centering light is provided.

Turning radius (standard tires) outside (optional tires)
Two-wheel 40' 4" (12.3 m) 40' 0" (12.2 m)
Four-wheel 23' 4" (7.1 m) 23' 0" (7.0 m)

TRANSMISSION

Power-shift transmission with integral torque converter has neutral safety start, 6 speeds forward, and 3 speeds reverse provides wide ratio coverage. Automatic pulsating back-up alarm.

STANDARD CARRIER EQUIPMENT *(continued)*

MULTI-POSITION OUT & DOWN OUTRIGGERS

Fully independent hydraulic outriggers may be utilized fully extended to 22 ft. (6.71 m) centerline to centerline, in their ¹/₂ extended position, or fully retracted for maximum flexibility. Easily removable steel floats, each with an area of 254 in² (1639 cm²), stow on the outrigger boxes at their point of use. Complete controls and a sight leveling bubble are located in the operator's cab.

WHEELS & TIRES

Disc type wheels with full tapered bead seat rim. 150.50 in (3.82 m) wheelbase.

TIRES

Wide earthmover (E3) style tread tires provide life and flotation. 26.50x25, 26 P.R. - std.
21.00x25, 28 P.R. opt.

SERVICE BRAKES

Splitsystem air brakes on all four wheels; 20¹/₄ "x4" (51.43x10.2cm) wedge type drum brakes.

PARKING BRAKE

Front and rear axles equipped with spring-set, air-released emergency/parking chambers acting on service brakes.

OPTIONAL EQUIPMENT

Cold Weather Starting Aid • Immersion Heater • Pintle Hook • Clearance Lights • Independent Rear or Four Mode Rear Wheel Steer • 20,000 lb (9072 kg) line pull front mounted winch

HYDRAULIC SYSTEM

HYDRAULIC PUMPS

Three gear type pumps, one single and two in tandem, driven off the transmission. Combined system capability is 119 gpm (450 lpm). Includes pump disconnect on tandem pump.

Main and Auxiliary Winch Pump
59.5 gpm (225.2 lpm) @ 3,500 psi (246.1 kg/cm²)

Boom Hoist, Telescope Pump

38.5 gpm (145.7 lpm) @ 3,500 psi (246.1 kg/cm²)

Power Steering, Outrigger and Swing Pump

21 gpm (79.5 lpm) @ 2,500 psi (175 kg/cm²)

FILTRATION

Full flow oil filtration system with bypass protection includes a removable 60 mesh (250 micron) suction screen-type filter and 5 micron replaceable return line filter.

HYDRAULIC RESERVOIR

All steel, welded construction with internal baffles and diffuser. Provides easy access to filters and is equipped with an external sight level gauge. The hydraulic tank is pressurized to aid in keeping out contaminants and in reducing potential pump cavitation. Capacity is 112 gal (424 liters). Hydraulic oil cooler is standard.

MAIN WINCH SPECIFICATIONS

Hydraulic winch with bent axis piston motor and planetary reduction gearing provides 2-speed operation with equal speeds for power up and down. Winch is equipped with an integral automatic brake, grooved drum, tapered flanges, standard cable roller on drum, and an electronic drum rotation indicator.

PERFORMANCE

Max. line speed (no load)

	LO-RANGE	HI-RANGE
First layer	184 fpm (56.1 m/min)	369 fpm (112.5 m/min)
Fifth layer	266 fpm (81.1 m/min)	533 fpm (162.5 m/min)
Max. line pull-first layer	15,639 lbs (7093 kg)	7,298 lbs (3310 kg)
Max. line pull-fifth layer	10,827 lbs (4911 kg)	5,052 lbs (2291 kg)
Permissible line pull	11,250 lbs (5102 kg)	

DRUM DIMENSIONS

10.62 in (270 mm) drum diameter
22.42 in (570 mm) length
20.0 in (508 mm) flange dia.
Cable: ⁵/₈ in. x 500 ft (16 mm x 152.4 m)
Cable type: ⁵/₈ in. (16 mm) 6 x 19 IWRC, XIPS, right regular lay, preformed.

DRUM CAPACITY

Max. Storage: 939 ft (286.2 m)
7th layer not a working layer
Max. Useable: 772 ft (235.3 m)*

*Based on minimum flange height above top layer to comply with ANSI B30.5

OPTIONAL AUX. WINCH

Hydraulic 2-speed winch with bent axis piston motor, equal speed power up and down, planetary reduction with integral automatic brake, grooved drum with tapered flanges, drum roller, and rotation indicator.

Performance

Max. line speed (no load)
Fifth layer 533 fpm (162.5 m/min)
Max. line pull
First layer 15,639 lbs (7,093 kg)
Drum Dimensions and Capacity
(Same as main winch)

OPTIONAL HOIST LINE

MAIN WINCH AND OPTIONAL AUXILIARY WINCH - 5/8" (16 mm) rotation resistant compacted strand 34 x 7. Min. breaking strength 28.21 tons (25.59 mt).

ENGINE SPECIFICATIONS

Make and Model	Cummins 6BTA5.9	Caterpillar 3116 DITA
Type	6 cylinder	6 cylinder
Bore and Stroke	4.02 x 4.72 in (102x120 mm)	4.12 x 5.0 in (105x127 mm)
Displacement	359 cu in (5.9 l)	402 cu in (6.6 l)
Gross HP	174 hp (130 kw) @ 2500 rpm	175 hp (130 kw) @ 2400 rpm
Gross Torque	480 lb-ft (651 N-m) @ 1500 rpm	482 lb-ft (654 N-m) @ 1450 rpm
Aspiration	turbocharged & aftercooled	turbocharged & aftercooled
Air Filter	dry type	dry type
Electrical System	12 volt	12 volt
Alternator	102 amp	115 amp
Battery	(2) 12V-1600 CCA	(2) 12V-1600 CCA
Fuel Capacity	50 gal (189 l)	50 gal (189 l)

PERFORMANCE (Standard Engine)

Transmission Gear	Forward Drive	Maximum Speed	Maximum Tractive Effort	Gradeability @ Stall
1	4-wheel	2.4 mph 3.9 km/h	66,538 lbs 27,460 kg	127.6%
2	4-wheel	4.2 mph 6.8 km/h	34,255 lbs 15,538 kg	48.5%
3	4-wheel	5.6 mph 9.0 km/h	26,061 lbs 11,821 kg	34.7%
4	2-wheel	8.0 mph 12.8 km/h	14,785 lbs 6,697 kg	18.0%
5	2-wheel	13.9 mph 22.4 km/h	10,410 lbs 4,722 kg	12.0%
6	2-wheel	24.1 mph 38.8 km/h	5,960 lbs 2,703 kg	5.9%

All performance data is based on a gross vehicle weight of 75,000 lbs (34,014 kg), 26.5x25 tires, 4x4 drive. Performance may vary due to engine performance. Gradeability data is theoretical and is limited by tire slip, stability, or oil pan design.

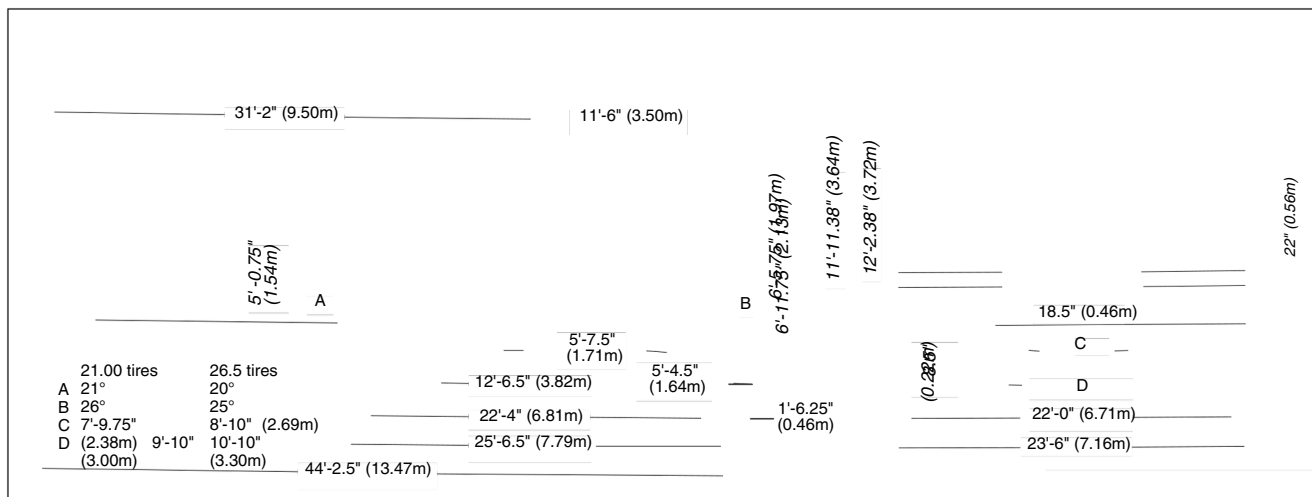
GENERAL DIMENSIONS

NOTES:

1. Dimensions given assume the boom is fully retracted in travel position and 26.50x25 tires.

2. Minimum ground clearance under: transmission- 25.25"

- 22.25" axle bowls
- 25.5" tie rods



WEIGHTS & AXLE LOADS	GROSS WEIGHT LBS.	UPPER FACING FRONT		GROSS WEIGHT KG.	UPPER FACING FRONT	
		FRONT REAR			FRONT REAR	
Basic Crane with 14,200 lb. (6440 kg) Counterweight	76,832		40,040 36,792	34 850		18 16216 688
Add Options:						
32' (9.68 m) Swing-on jib (Stowed)	+ 1,260	+	-870 -	+572	+966 +	-394
33'-57' (10.15-17.30 m) Swing-On Jib	+ 2,160	2,130	1,440	+980	1,633	-653
(Stowed)	+100	+	-230	+45	+136	-91
Auxiliary Boom Head	+75	3,600	+75	+34	+ 0	+34
Auxiliary Winch Controls and Plumbing	+264	+300	+204	+120	-27	+93
Only	+755	+ 0	-375	+342	+512	-170
Aux. Winch with Wire Rope, Controls, Etc.	+723	-60	-357	+328	+490	-162
50T (45.3 mt) 6-Sheave Hook Block	+580	+	-290	+263	+395	-132
50T (45.3 mt) 5-Sheave Hook Block	+240	1,130	-50	+109	+130	-21
22T (20 mt) 2-Sheave Hook Block		+				
6.25T Hook and Ball (In tool box)	+ 4	1,086	- 1	+ 2	+ 2	- 7
Pintle Hook:	+ 5	+870	+ 5	+ 0	- 7	+ 31
Substitute:	4	+290	7	2	1	
21.00 x 25 28 PR Tires	- 450	- 250	- 200	- 102	- 5	- 9
500' of 34x7 class spin resistant wire rope	+ 65	- 42	+107	+ 30	+ 1	+ 1

NOTE: Weights are for Terex supplied equipment and are subject to 2% variation due to manufacturing tolerances.

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.



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