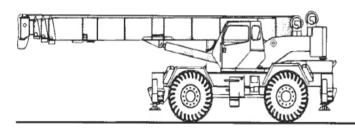


RT 400 SERIES

rough terrain cranes specifications



STANDARD BOOM EQUIPMENT

BOOM

33-105 ft. (10.06-32.00 m), four section full power boom. Telescoping is fully synchronized with single lever control. High-strength, four plate construction with side plate holes providing reduced weight. Anti-friction slide pads. Single boom hoist cylinder.

BOOM HEAD

Welded to fourth section of boom. Four or five load sheaves and two idler sheaves mounted on heavy duty, anti-friction bearings. Quick reeving boom head eliminates need to remove wedge and socket from rope. Provision made for side-stow jib mounting.

OPTIONAL BOOM EQUIPMENT

JIBS

33 ft. (10.06 m) side stow swing-on piece lattice type jib. Single sheave mounted on anti-friction bearing. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 142 ft. (43.3 m).

33-58 ft. (10.06-17.68 m) side stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendible to 58 ft. (17.68 m) by means of a 25 ft. (7.62 m)

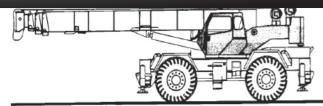
AUXILIARY BOOM HEAD

Removable auxiliary boom head has single sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only.

HOOK BLOCK

Three, four or five sheaves and locking type hook latch. Quick reeving design does not require removal of wedge and socket from rope.





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 single row, ball-type, with internal teeth. The swing gear is bolted to revolving upperstructure and to carrier

SWING

A hydraulic motor drives a double planetary reduction gear for precise and smooth swing function. Swing speed (no load) is 2.5 rpm.

SWING BRAKE

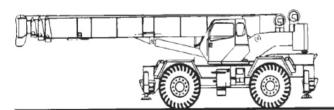
Heavy duty multiple disc swing brake is mechanically actuated from operator's cab by foot pedal. Brake may be locked on or used as a momentary brake. A separate 2-position mechanical house lock is also provided.

RATED CAPACITY INDICATOR

Rated Capacity Indicator with visual and audible warning system and automatic function disconnects. 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 warning and automatic function disconnects.

OPERATOR'S CAB

Environmental cab with all steel construction, optimized 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 glass skylight and removable front windshield to provide



optimized visibility of the load open or closed. Acoustical foam padding insulates against sound and weather. The deluxe six-way adjustable operator's seat is equipped with a torsion bar 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, single lever two-speed main winch, shift, vernier adjustable hand throttle and two position house lock. Switches include ignition, engine stop, steering mode, parking brake, and outrigger controls. Foot control pedals include swing brake, boom raise, boom lower, service brake and accelerator.

INSTRUMENTATION AND ACCESSORIES

In-cab gauges include air pressure, bubble level, 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 and Rated Capacity Indicator. Accessories include fire extinguisher; light package including headlights, tail lights, brake lights, directional signals, four-way hazard flashers, and back-up lights with audio pulsating back-up alarm; windshield and skylight washers/wipers; R.H. and L.H. rear view mirrors; dome light; dash lights; and seat belt.

HYDRAULIC CONTROL VALVES

Valves are mounted on the upperstructure and are easily accessible. Valves include one four-spool main valve for boom hoist, telescope and main winch, one single-spool valve for swing. High pressure regeneration feature provides 2-speed boom extension. Quick disconnects are provided for quick attachment of pressure check gauges.

OPTIONAL EQUIPMENT

Auxiliary Winch • 360° House Lock • Heater/Defroster • Air Conditioner • Tachometer • Work Lights • Revolving Amber Light • Independent Rear Wheel Steering • Roof Mounted Spotlight

STANDARD CARRIER EQUIPMENT

CARRIER CHASSIS

Chassis is designed and built with four-wheel drive and fourwheel steer (4x4x4). Has box beam type construction with reinforcing cross members, a precision machined turntable mounting plate and integrally welded outrigger boxes. Decking has anti-skid surfaces, including tool storage compartment and access ladders left and right side and front and rear corners.

AXLES AND SUSPENSION

Rear axle is a planetary drive/steer type with automatic oscillation lockouts that 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.

STEERING

Hydraulic four-wheel power steering for two-wheel, four-wheel, or crab steer is easily controlled by steering wheel.

Turning radius to center of outside tire.

21.00 x 25 38' 0.6" (11.6 m) 26.5 x 25

Two-wheel Four-wheel 20' 10.4" (6.4 m)

38' 4.2" (11.7 m) 21' 1.9" (6.5 m)

TRANSMISSION

Full power-shift transmission with integral torque converter has neutral safety system, 6 speeds forward, and 3 speeds reverse. Automatic pulsating backup alarm.



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)

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 114 gal (432 liters). Swing-away hydraulic oil cooler is standard.

MAIN WINCH SPECIFICATIONS

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

PERFORMANCE	LO-RANGE	HI-RANGE	
Max. line speed (no load)		000 ((00 ()	
First layer	177 fpm (54 m/min)	293 fpm (89 m/min)	
Fifth layer	257 fpm (78 m/min)	425 fpm (130 m/min)	
Max. line pull-first layer	15,000 lb	s (6804 kg)	
Permissible line pull	10,000 lb	s (4536 kg)	
			_

10,000 lbs (4536 kg)
DRUM CAPACITY
Max. Storage: 899 ft (274 m)
7th layer not a working layer
Max. Useable: 738 ft (225 m)*
* Based on min. flange height above top layer to comply with ANSI B30.5

OPTIONAL HOIST LINE

MAIN WINCH – $^{5}/_{6}$ " (14.29 mm) rotation resistant, compacted strand, 16 x 19 or 19 x 19. Minimum break strength 22.7 tons (20.4 mt).

OPTIONAL AUX. WINCH

Hydraulic winch, power up and down, equal speed, planetary reduction with integral automatic brake, tapered drum flanges, electronic drum rotation indicator, and drum roller.

STANDARD:

Performance

Max. line speed (no load)

Fifth layer 338 fpm (103 m/min)

Max. line pull

First layer 10,100 lbs (4582 kg)

Drum Dimensions

10.5 in (267 mm) drum diameter

16.1 in (408 mm) length

17.8 in (452 mm) flange diameter

Cable: 1/2 in x 500 ft (12.7 mm x 152.4 m)

Cable type: 6 x 19 IWRC-XIPS regular lay preformed.

Drum Capacity

Max. storage: 815 ft (248 m).

HI-TORQUE:

Same as low speed main winch.

OPTIONAL AUXILIARY WINCH – ⁹/₁₆ in. (15.88 mm) rotation resistant compacted strand, 18 x 19 or 19 x 19. Minimum break strength 18.5 tons (16.6 mt).

ENGINE SPECIFICATIONS

6 cylinder	6 cylinder
4.02 x 4.72 in (102x120 mm)	4.12 x 5.0 in (105x127 mm)
359 cu in (5.9 l)	402 cu in (6.6 l)
174 hp (130 kw) @ 2500 rpm	175 hp (130 kw) @ 2400 rpm
455 lb•ft (617 N•m) @ 1500 rpm	490 lb•ft (664 N•m) @ 1450 rpm
turbocharged & aftercooled	turbocharged & aftercooled
dry type	dry type
12 volt	12 volt
102 amp	115 amp
(2) 12V-1600 CCA	(2) 12V-1600 CCA
50 gal (189 I)	50 gal (189 I)
	359 cu in (5.9 l) 174 hp (130 kw) @ 2500 rpm 455 lb•ft (617 N•m) @ 1500 rpm turbocharged & aftercooled dry type 12 volt 102 amp (2) 12V-1600 CCA

PERFORMANCE (Cummins 6BTA5.9 Engine)

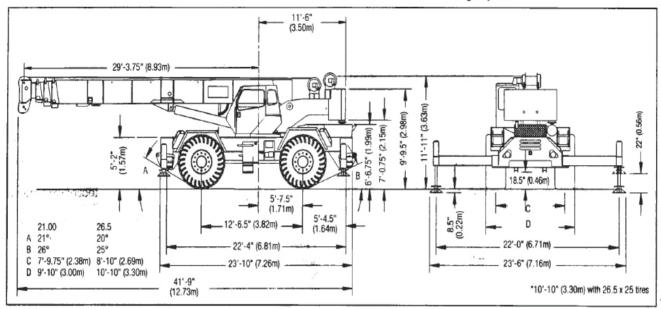
Trans- mission Gear	Forward Drive	Maximum Speed	Maximum Tractive Effort	Grade- ability @ Stall
1	4-wheel	2.4 mph 3.9 km/h	60,538 lbs 27 460 kg	127.6%
2	4-wheel	4.2 mph 6.8 km/h	34,255 lbs 15 538 kg	48.5%
3	4-wheel	5.6 mph 9.0 km/h	26,061 lbs 11 821 kg	34.7%
4	2-wheel	9.8 mph 15.8 km/h	14,765 lbs 6697 kg	18.0%
5	2-wheel	13.9 mph 22.4 km/h	10,410 lbs 4722 kg	12.0%
6	2-wheel	24.1 mph 38.8 km/h	5,960 lbs 2703 kg	5.9%

All performance data is based on a gross vehicle weight of 75,0000 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 engine oil pan design.



RELIABLE CRANE SERVICE

- 1. Dimensions given assume the boom is fully retracted in travel position and 26.50x25 tires.
- 2. Minimum ground clearance under: transmission 25.25" (0.64m) axle bowls tie rods 25.5" (0.65m)
 - ds 25.5" (0.65m)
- ** The winch cable roller and drum rotation indicator increase the overall height by 4.50"



WEIGHTS & AXLE LOADS	GROSS WEIGHT	UPPER FAC	ING FRONT	GROSS	UPPER FAC	ING FRONT
WEIGHTS & AXEL LOADS	LBS.	FRONT	REAR	WEIGHT KG.	FRONT	REAR
Basic Crane with 14,000 lb. (6349 kg) Counterweight and 26.5 x 25 26 PR Tires	76,095	37,192	38,903	34 516	16 870	17 646
Add Options: 33' (10.06 m) Swing-on jib (Stowed)	+ 1,705	+2,850	-1,145	+ 773	+ 1293	- 520
33'-58' (10.06-17.68 m) Swing-On Jib (Stowed)	+ 2,545	+4,000	-1,455	+ 1154	+ 1814	- 660
Auxiliary Boom Head	+ 100	+ 285	- 185	+ 45	+ 129	- 84
Caterpillar 3116 DITA Engine	+ 180	- 15	+ 195	+ 82	- 7	+ 195
Aux. Winch, 1/2"x450' Wire Rope, Drum Roller	- 65	+ 15	- 80	- 29	+ 7	- 22
Hi-Torq Aux Winch 5/8"x500' Rope, Drum Roller	+ 298	- 45	+ 343	+ 135	- 20	+ 155
50T (45.3 mt) 6-Sheave Hook Block	+ 913	+1,367	- 454	+ 414	+ 620	- 206
50T (45.3 mt) 5-Sheave Hook Block	+ 888	+1,329	- 441	+ 403	+ 603	- 200
7.0T (6.3 mt) Hook and Ball (In tool box)	+ 240	+ 290	- 50	+ 109	+ 130	- 21
Pintle Hook:						
Front	+ 45	+ 60	- 15	+ 20	+ 27	- 7
Rear	+ 45	- 25	+ 70	+ 20	- 11	+ 31
Substitute: 360° Mechanical House Lock	+ 85	- 38	+ 47	+ 39	- 17	+ 22
21.00 x 25 28 PR Tires	- 460	- 230	- 230	- 208	- 104	- 104
5/8" x 500' of 18x19 class spin resistant wire rope	+ 35	- 5	+ 40	+ 16	- 2	+ 18

NOTE: Weights are for factory 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 WAR-RANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.

http://www.terexlift.com

TEREX CRANES

Waverly, Iowa

106 12th Street S.E. • Waverly, IA 50677-9466 USA (319) 352-3920 • FAX: (319) 352-5727

TC-448-3

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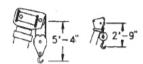
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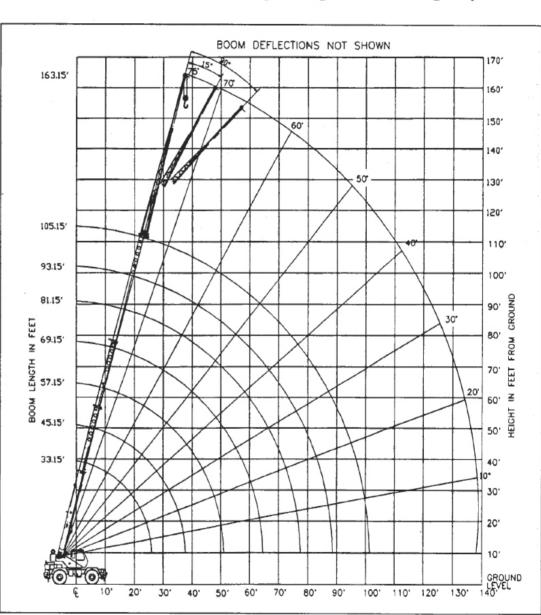
TEREX RT 450

rough terrain crane 50 ton capacity

range diagram & lifting capacities

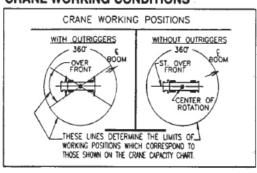


DIMENSIONS ARE FOR LARGEST FACTORY FURNISHED HOOK BLOCK AND HOOK & BALL, WITH ANTI-TWO BLOCK ACTIVATED



Range Diagram (33' - 105' 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 S	eave)690 Lbs.
Hook Block (5 S	eave)888 Lbs.
Hook Block (6 S	eave)913 Lbs.



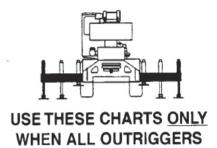
CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

MODEL RT 450

COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT. STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

ON OUTRIGGERS - FULLY EXTENDED

011 0	V 11111	auri.	0 10		X I LIV					
	BOOM	LENGTH 3	3.15 FT	BOOM	LENGTH 4	5.15 FT	BOOM	LENGTH 5	7.15 FT	
		LOADED			LOADED			LOADED		
LOAD	BOOM	OVER	360°	BOOM ANGLE	OVER FRONT	360°	BOOM ANGLE	OVER FRONT	360°	LOAD RADIUS
RADIUS (FT)	ANGLE (DEG)	FRONT (LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(FT)
10	65.3	100.000*	100,000*	72.2	75,100°	75,100*	(-00)	(/	()	10
12	61.5	76,200*	76,200°	69.5	73,100°	73,100*	73.9	59,700*	59,700*	12
15	55.4	64,300*	62,500*	65.4	61,800*	61,800°	70.8	55,100*	55,100*	15
20	44.0	46,300*	44,300*	58.1	47,200*	45,200*	65.4	47,700*	45,700*	20
25	29.6	34,800*	33,300*	50.3	35,800*	34,300*	59.7	36,300*	34,800*	25
30	**			41.5	28,100*	27,000*	53.7	28,700*	27,500*	30
35				30.7	22,700*	21,700*	47.2	23,200*	22,300*	35
40				13.9	18,500*	17,700*	39.9	19,100*	18,300*	40
45							31.3	15,900*	15,200*	45
50							19.6	13,300*	12,700*	50
55							**			55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100



ARE FULLY EXTENDED

ON OUTRIGGERS - FULLY EXTENDED

	BOOM	LENGTH 6	9.15 FT	BOOM	LENGTH 8	1.15 FT	BOOM	LENGTH 93	3.15 FT	BOOM L	ENGTH 10	5.15 FT	
	LOADED			LOADED	OUED		LOADED	OVER		LOADED BOOM	OVER		LOAD
LOAD	BOOM ANGLE	OVER REAR	360°	BOOM	OVER REAR	360°	ANGLE	REAR	360°	ANGLE	REAR	360°	RADIUS
RADIUS (FT)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(FT)
10	(BEG)	(60)	(20)	(520)	(20)	()	(===)	(/	. ,		` _	-	10
12	-												12
15	74.2	44,000*	44,000°										15
20	69.8	36,200*	36,200*	72.9	33,500°	33,500*							20
25	65.4	30,400*	30,400*	69.2	28,400*	28,400*	72.0	22,200*	22,200*				25
30	60.7	26,100°	26,100°	65.4	24,300*	24,300*	68.7	19,000*	19,000*	71.2	15,100*	15,100*	30
35	55.8	22,800*	22,600*	61.4	21,100*	21,100*	65.4	16,300*	16,300°	68.3	13,400*	13,400*	35
40	50.7	19,500*	18,700*	57.3	18,700*	18,700*	61.9	14,300*	14,300*	65.4	12,000°	12,000*	40
45	45.1	16,300*	15,600*	53.0	16,500°	15,800*	58.4	12,400*	12,400*	62.3	10,800*	10,800*	45
50	38.9	13,800*	13,100*	48.4	14,000*	13,400*	54.7	10,900*	10,900*	59.2	9,600*	9,600*	50
55	31.7	11,500	10,900	43.5	11,700	11,000	50.8	9,700*	9,700*	56.0	8,600*	8,600*	55
60	22.6	9,500	8,900	38.1	9,700	9,100	46.7	8,700*	8,700*	52.6	7,600*	7,600*	60
65				32.0	8,100	7,600	42.4	7,800*	7,700	49.1	6,700*	6,700*	65
70				24.5	6,700	6,200	37.6	6,900	6,400	45.4	6,000*	6,000*	70
75				13.7	5,500	5,100	32.2	5,700	5,300	41.4	5,300*	5,300*	75
80				**			25.8	4,800	4,400	37.1	4,700*	4,500	80
85							17.5	3,900	3,500	32.3	4,000	3,700	85
90										26.8	3,300	2,900	90
95										20.0	2,600	2,300	95
100		1							l	9.1	2,000	1,700	100

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM	LENGTH 3	3.15 FT	BOOM LENGTH 45.15 FT BOOM LENG			ENGTH 5	7.15 FT	15 FT BOOM LENGTH 69.15 FT			BOOM LENGTH 81.15 FT			BOOM LENGTH 93.15 FT			BOOM LENGTH 105.15 FT			
LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAO RADIUS (FT)	OVER FRONT (L8)	360° (LB)	LOAD RAOIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)
29.3	17,100°	17,100°	41.3	10,700*	10,700*	53.3	6,900*	6,900*	65.3	4,500°	4,500*	77.3	2,700*	2,700*	89.3	1,500*	1,500*	101.3	500°	500*



COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT.

STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

MODEL RT 450

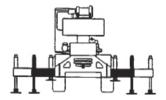
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ON OUTRIGGERS - MID POSITION

	BOOM LENGTH 33.15 FT BOOM LENGTH 45.15				BOOM LEN	IGTH 57.15 FT	BOOM LEN	GTH 69.15 FT	BOOM LEN	GTH 81.15 FT	BOOM LEN	GTH 93.15 FT	BOOM LEN	GTH 105.15 FT	
LOAD	LOADED BOOM		LOADED BOOM		LOADED BOOM		LOADED BOOM		LOADED 800M		LOADED BOOM		LOADED BOOM		LOAD
RADIUS (FT)	ANGLE (DEG)	360° (LB)	ANGLE (DEG)	360° (LB)	ANGLE (DEG)	360° (LB)	ANGLE (DEG)	360° (LB)	ANGLE (DEG)	360° (L8)	ANGLE (DEG)	360° (LB)	ANGLE (DEG)	360° (LB)	RADIUS (FT)
10	65.3	87,000*	72.2	75,100°	<u> </u>	, ,			,,	(,	(==0,	()	(525)	(22)	10
12	61.5	70,900*	69.5	71,800*	73.9	59,7 0 0*									12
15	55.4	54,800*	65.4	55,700*	70.8	55,100*	74.2	44,000*							15
20	44.0	38,600*	58.1	39,500*	65.4	39,900*	69.8	36,200*	72.9	33,500°					20
25	29.6	25,300	50.3	26,400	59.7	26,700	65.4	26,900	69.2	27,000	72.0	22,200*			25
30	**		41.5	18,600	53.7	19,000	60.7	19,200	65.4	19,300	68.7	19,000*	71.2	15,100*	30
35			30.7	13,500	47.2	14,000	55.8	14,200	61.4	14,400	65.4	14,400	68.3	13,400*	35
40			13.9	9,800	39.9	10,600	50.7	10,800	57.3	10,900	61.9	11,000	65.4	11,100	40
45			••		31.3	8,000	45.1	8,300	53.0	8,500	58.4	8,500	62.3	8,600	45
50					19.6	5,900	38.9	6,300	48.4	6,600	54.7	6,600	59.2	6,700	50
55					••		31.7	4,800	43.5	5,000	50.8	5,100	56.0	5,200	55
60							22.6	3,500	38.1	3,800	46.7	3,900	52.6	4,000	60
65									32.0	2,700	42.4	2,900	49.1	3,000	65
70									24.5	1,800	37.6	2,000	45.4	2,100	70
75											32.2	1,300	41.4	1,400	75

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

_											_			
	BOOM LENGTH 33.15 FT		BOOM LENGTH 45.15 FT		BOOM LENGTH 57.15 FT		BOOM LENGTH 69.15 FT		BOOM LENGTH 81.15 FT		BOOM LENGTH 93.15 FT		BOOM LENGTH 105.15 FT	
	LOAD RADIUS (FT)	360° (LB)	LDAD RADIUS (FT)	360° (LB)	LDAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360°	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
ſ	29.3	17,100*	41.3	8,900	53.3	4,700	65.3	2,300						



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



COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT. STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

MODEL RT 450

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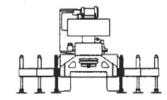
CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - RETRACTED

	BOOM LE	NGTH 33.15 FT	BOOM LEN	GTH 45.15 FT	BOOM LEN	IGTH 57.15 FT	BOOM LEN	GTH 69.15 FT	BOOM LEN	IGTH 81.15 FT	BOOM LEN	GTH 93.15 FT	BOOM LEN	GTH 105.15 FT	
LOAD RADIUS (FT)	LOADED BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	LOAD RADIUS (FT)
10	65.3	70,000	72.2	70,700	(===,	(/	(===,	,,	(222)	()	(525)	(/	(===)	(==/	10
12	61.5	48,900	69.5	49,500	73.9	49,800									12
15	55.4	32,300	65.4	33,000	70.8	33,300	74.2	33,400							15
20	44.0	18,700	58.1	19,700	65.4	20,000	69.8	20,100	72.9	20,200					20
25	29.6	11,700	50.3	12,700	59.7	13,100	65.4	13,300	69.2	13,400	72.0	13,500			25
30	**		41.5	8,400	53.7	8,900	60.7	9,200	65.4	9,300	68.7	9,300	71.2	9,400	30
35			30.7	5,500	47.2	6,000	55.8	6,300	61.4	6,500	65.4	6,600	68.3	6,600	35
40			13.9	3,300	39.9	3,900	50.7	4,300	57.3	4,500	61.9	4,600	65.4	4,600	40
45					7.9	2,300	45.1	2,700	53.0	2,900	58.4	3,000	62.3	3,100	45
50					19.6	1,100	38.9	1,500	48.4	1,700	54.7	1,800	59.2	1,900	50

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

	LENGTH 5 FT	B00M L 45.1		B00M L 57.1		BOOM L 69.1		B00M L 81.1		BOOM I 93.1		BOOM L 105.1	
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS 360° (FT) (LB)		LOAD RADIUS (FT)	360° (LB)								
29.3	7,500	41.3	2,700										



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



COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT. STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

MODEL RT 450

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

	33 F	T OFFSET	ABLE JIB/N	O PULL O	UT INSTAL	LED	33	FT OFFSE	TABLE JIB/	PULL OUT	RETRACT	ED			8 FT OFFS	ETABLE JI	В		
	0° OF	FŞET	15° 0	FFSET	30° 0	FFSET	0° OF	FSET	15° 0	FFSET	30° 0	FFSET	0° 0F	FSET	15° 0	FFSET	30° 01	FFSET	
LOADED BOOM ANGLE (DEG)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360°	LOAD RADIUS (REF) (FT)	360° (LB)	LOADED BOOM ANGLE (DEG)												
75	38	9,100*	46	7,300*	52	6,100*	38	9,100*	46	7,300*	52	6,100*	50	5,100*	64	4,100*	75	3,400*	75
73	43	7,800*	50	6,700*	57	5,600*	43	7,800*	50	6,700*	57	5,600*	55	4,800*	69	3,900*	79	3,300*	73
70	50	7,600*	56	6,400*	63	5,500*	50	7,400*	56	6,000*	63	5,100*	63	4,600*	76	3,600*	86	3,000*	70
67	57	7,400*	63	6,000*	69	5,200*	57	6,800*	63	5,500*	69	4,700*	71	4,500*	83	3,300*	92	2,800*	67
64	63	6,400*	69	5,300*	75	4,700*	63	5,800*	69	4,800*	75	4,100*	78	4,400*	90	3,000*	98	2,600*	64
61	70	5,600*	76	4,800*	81	4,200*	70	5,000*	76	4,200*	81	3,700*	86	4,000*	97	2,900*	104	2,300*	61
58	76	5,000*	81	4,300*	86	3,800*	76	4,300*	81	3,700*	86	3,300*	93	3,600*	103	2,700*	110	2,300*	58
54	83	4,300*	88	3,800*	93	3,400*	83	3,600*	88	3,100*	. 93	2,800*	102	3,100*	111	2,600*	117	2,200*	54
50	90	3,800*	95	3,300*	99	3,100*	90	3,100*	95	2,700*	99	2,500*	110	2,700*	118	2,300*	123	2,000*	5 0
46	97	3,300*	101	2,900*	105	2,700*	97	2,600*	101	2,300*	105	2,100*	117	2,000	124	1,900	128	1,800*	46
42	103	2,900*	107	2,700*	110	2,500*	103	2,200*	107	2,000*	110	1,900*	123	1,400	. 130	1,300	133	1,300	42
38	109	2,200	112	2,000	115	1,800	109	1,500	112	1,400	115	1,300	129	1,100					38
32	117	1,500	116	1,400	121	1,400													32

NOTES FOR JIB CAPACITIES

- A. 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.
- For boom angle not shown, use the capacity of the next lower boom angle.
- C. Listed radii are for extended main boom only

ON TIRES

	MAX		21:00 X	25–28PR			26:5 x 2	5-26PR		
1	воом			PICK &	CARRY			PICK &	CARRY	
RADIUS	LENGTH	STATIO	NARY	CREEP	2.5 MPH	STATIO	NARY	CREEP	2.5 MPH	RADIUS
(FT)	(FT)	360°	STRAI	GHT OVER	FRONT	360°	STRAIG	HT OVER	FRONT	(FT)
10	33	36,000	70,000*	53,100*	47,200*	39,500*	61,800*	47,200*	39,800*	10
12	33	30,600	64,900*	49,400*	43,700*	32,100*	57,000*	43,300*	36,300*	12
15	33	22,900	53,500	41,800*	35,900*	23,000	48,800*	36,600*	30,200*	15
20	45	14,000	31,800	31,800	27,000*	14,700	33,200	27,500*	22,500*	20
25	45	9,300	21,700	22,000	21,000	10,500	21,500	21,200	17,100*	25
30	45	6,100	15,300	15,300	15,300	7,500	15,400	15,400	13,000*	30
35	45	4,000	12,000	12,000	12,000	5,200	11,900	11,900	10,300*	35
40	57	2,400	9,400	9,400	9,400	3,500	9,500	9,500	8,200*	40
45	57		7,400	7,400	7,400	2,000	7,600	7,600	6,500*	45
50	57		6,000	6,000	6,000		6,000	6;000	5,100*	50
55	69		4,700	4,700	4,700		4,700	4,700	4,000*	55
60	69		3,600	3,600	3,600		3,600	3,600	3,000*	60

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.
- Without outriggers, never maneuver the boom beyond listed load radii for applicable tires to ensure stability.
- Creep speed is crane movement of less than 200
 (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

LIMIT DADTO			^							40
LINE PARTS		2	3	4	5	6	7	8	9	10
STD. HOIST	10,000	20,000	30,000	40.000	50,000	60,000	70,000	80,000	90,000	100,000
AUX HOIST	9,080	18,160	27,240	36,320	45,400	54,480	65,560	70,000	81,270	90,000
HOOK BLOCK	7,400	14,800	22,200	29,600	37,000	44,400	51,800	59,200	66,600	74,000
	WIRE	OR 1 5/8*	9X19 MINIMU 6X19 OR 6X3	IM BREAKING IWRC IPS PE	IPACTED STRA STRENGTH - REFORMED RI KING STRENG	22.7 TONS GHT	s			

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
21:00 X 25-28 PR	85 PSI	85 PSI	85 PSI	65 PSI
26:50 X 25-26 PR	65 PS(65 PSI	65 PSI	50 PSI



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 Operator's, Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through 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 ENGI-NEERS (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

- 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 pressures in tires. Consuit Operator's Manual for precautions.
- Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
- Consult appropriate section of the Operator's and Service Manual for more exact description 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.
- Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.

 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.

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.
- Power telescoping boom sections must be extended equally.
- 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.
- 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. 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* 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.
- 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 had at all times.
- 13. FOR TRUCK 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.

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.

http://www.terexlift.com



Waverly, Iowa

TEREX CRANES, INC. 106 12th Street S.E. • Waverly, IA 50677-9466 USA (319) 352-3920 • FAX: (319) 352-5727



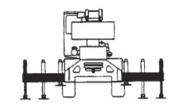
CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

MODEL RT 450

COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT. STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

ON OUTRIGGERS - FULLY EXTENDED

OI O	OINK	JULI	9-10		. A I LIV	020				
	BOOM	LENGTH 3	3.15 FT	BOOM	LENGTH 4	5.15 FT	BOOM	LENGTH 5	7.15 FT	
		LOADED			LOADED		20011	LOADED		1040
LOAD RADIUS	BOOM	OVER	360°	BOOM ANGLE	OVER FRONT	360°	BOOM	OVER FRONT	360°	LOAD RADIUS
(FT)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(FT)
10	65.3	100,000*	100,000*	72.2	75,100*	75,100*				10
12	61.5	76,200*	76,200°	69.5	73,100*	73,100*	73.9	59,700*	59,700*	12
15	55.4	64,300*	62,500*	65.4	61,800*	61,800°	70.8	55,100*	55,100*	15
20	44.0	46,300*	44,300*	58.1	47,200*	45,200*	65.4	47,700*	45,700*	20
25	29.6	34,800*	33,300*	50.3	35,800*	34,300*	59.7	36,300*	34,800*	25
30	**			41.5	28,100*	27,000*	53.7	28,700*	27,500*	30
35				30.7	22,700*	21,700*	47.2	23,200*	22,300*	35
40				13.9	18,500*	17,700*	39.9	19,100*	18,300*	40
45							31.3	15,900*	15,200*	45
50							19.6	13,300*	12,700*	50
55							**			55
60										60
65										65
70								,		70
75										75
80										80
85										85
90										90
95										95
100										100



WHEN ALL OUTRIGGERS
ARE FULLY EXTENDED

ON OUTRIGGERS - FULLY EXTENDED

	BOOM	LENGTH 6	9.15 FT	BOOM	LENGTH 8	1.15 FT	BOOM	LENGTH 9	3.15 FT	BOOM L	ENGTH 10	5.15 FT	
LOAD	LOADED BOOM	OVER		LOADED	OVER		LOADED BOOM	OVER		LOADED BOOM	OVER		LOAD
RADIUS (FT)	ANGLE (DEG)	REAR (LB)	360° (LB)	ANGLE (DEG)	REAR (LB)	360° (LB)	ANGLE (DEG)	REAR (LB)	360° (LB)	ANGLE (DEG)	REAR (LB)	360° (LB)	RADIUS (FT)
10	(===)	(==/	(,										10
12													12
15	74.2	44,000*	44,000*										15
20	69.8	36,200*	36,200*	72.9	33,500*	33,500*							20
25	65.4	30,400*	30,400*	69.2	28,400*	28,400*	72.0	22,200*	22,200*				25
30	60.7	26,100°	26,100*	65.4	24,300*	24,300*	68.7	19,000*	19,000*	71.2	15,100*	15,100*	30
35	55.8	22,800*	22,600*	61.4	21,100*	21,100*	65.4	16,300*	16,300°	68.3	13,400*	13,400*	35
40	50.7	19,500*	18,700*	57.3	18,700*	18,700*	61.9	14,300*	14,300*	65.4	12,000*	12,000*	40
45	45.1	16,300*	15,600*	53.0	16,500*	15,800*	58.4	12,400*	12,400*	62.3	10,800*	10,800*	45
50	38.9	13,800*	13,100*	48.4	14,000*	13,400*	54.7	10,900*	10,900*	59.2	9,600*	9,600*	50
55	31.7	11,500	10,900	43.5	11,700	11,000	50.8	9,700*	9,700*	56.0	8,600*	8,600*	55
60	22.6	9,500	8,900	38.1	9,700	9,100	46.7	8,700*	8,700*	52.6	7,600*	7,600*	60
65				32.0	8,100	7,600	42.4	7,800*	7,700	49.1	6,700*	6,700*	65
70				24.5	6,700	6,200	37.6	6,900	6,400	45.4	6,000*	6,000*	70
75				13.7	5,500	5,100	32.2	5,700	5,300	41.4	5,300*	5,300*	75
80				**			25.8	4,800	4,400	37.1	4,700*	4,500	80
85							17.5	3,900	3,500	32.3	4,000	3,700	85
90							**			26.8	3,300	2,900	90
95										20.0	2,600	2,300	95
100	1									9.1	2,000	1,700	100

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM	LENGTH 3	3.15 FT	B00M	LENGTH 4	5.15 FT	BOOM (ENGTH 5	7.15 FT	BOOM I	ENGTH 69	9.15 FT	BOOM I	ENGTH 8	1.15 FT	BOOM L	ENGTH 9	3.15 FT	BOOM L	ENGTH 10	5.15 FT
LOAD RADIUS (FT)	OVÉR FRONT (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)	LOAO RADIUS (FT)	OVER FRONT (L8)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)
29.3	17,100°	17,100°	41.3	10,700*	10,700*	53.3	6,900*	6,900*	65.3	4,500°	4,500*	77.3	2,700*	2,700*	89.3	1,500*	1,500*	101.3	500°	500*



COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT. STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

MODEL RT 450

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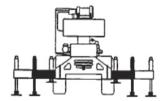
CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - MID POSITION

	BOOM LE	NGTH 33.15 FT	BOOM LEN	GTH 45.15 FT	BOOM LEN	IGTH 57.15 FT	BOOM LEN	GTH 69.15 FT	BOOM LEN	GTH 81.15 FT	BOOM LEN	GTH 93.15 FT	BOOM LEN	GTH 105.15 FT	
LOAD RADIUS (FT)	BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (L8)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED 800M ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOAD RADIUS (FT)
10	65.3	87,000*	72.2	75,100°									, ,	/	10
12	61.5	70,900*	69.5	71,800*	73.9	59,700*									12
15	55.4	54,800*	65.4	55,700*	70.8	55,100*	74.2	44,000*					-		15
20	44.0	38,600*	58.1	39,500*	65.4	39,900*	69.8	36,200*	72.9	33,500°					20
25	29.6	25,300	50.3	26,400	59.7	26,700	65.4	26,900	69.2	27,000	72.0	22,200*			25
30	**		41.5	18,600	53.7	19,000	60.7	19,200	65.4	19,300	68.7	19,000*	71.2	15,100*	30
35			30.7	13,500	47.2	14,000	55.8	14,200	61.4	14,400	65.4	14,400	68.3	13,400*	35
40			13.9	9,800	39.9	10,600	50.7	10,800	57.3	10,900	61.9	11,000	65.4	11,100	40
45			••		31.3	8,000	45.1	8,300	53.0	8,500	58.4	8,500	62.3	8,600	45
50					19.6	5,900	38.9	6,300	48.4	6,600	54.7	6,600	59.2	6,700	50
55							31.7	4,800	43.5	5,000	50.8	5,100	56.0	5,200	55
60							22.6	3,500	38.1	3,800	46.7	3,900	52.6	4,000	60
65							"		32.0	2,700	42.4	2,900	49.1	3,000	65
70									24.5	1,800	37.6	2,000	45.4	2,100	70
75											32.2	1,300	41.4	1,400	75

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

	LENGTH 5 FT	BOOM L 45.1		BOOM L 57.1		BOOM L 69.1	- 1	BOOM L 81.1		BOOM L 93.1		BOOM L 105.1	
LOAD RADIUS (FT)	360° (LB)	LDAD RADIUS 360° (FT) (LB)		LDAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
29.3	17,100*	41.3	8,900	53.3	4,700	65.3	2,300	- "					



WHEN ALL OUTRIGGERS ARE PINNED IN MID POSITION



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.

MODEL RT 450

COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT. OUTRIGGER SPREAD 22 FT.

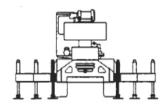
STABILITY PCT. ON OUTRIGGERS 85% ON TIRES 75% PCSA CLASS 10-176

ON OUTRIGGERS - RETRACTED

	BOOM LE	NGTH 33.15 FT	BOOM LEN	GTH 45.15 FT	BOOM LEN	IGTH 57.15 FT	BOOM LEN	GTH 69.15 FT	BOOM LEN	GTH 81.15 FT	BOOM LEN	IGTH 93.15 FT	BOOM LEN	GTH 105.15 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)	BOOM ANGLE (DEG)	360° (LB)	LOAD RADIUS (FT)
10	65.3	70,000	72.2	70,700											10
12	61.5	48,900	69.5	49,500	73.9	49,800									12
15	55.4	32,300	65.4	33,000	70.8	33,300	74.2	33,400							15
20	44.0	18,700	58.1	19,700	65.4	20,000	69.8	20,100	72.9	20,200					20
25	29.6	11,700	50.3	12,700	59.7	13,100	65.4	13,300	69.2	13,400	72.0	13,500			25
30	**		41.5	8,400	53.7	8,900	60.7	9,200	65.4	9,300	68.7	9,300	71.2	9,400	30
35			30.7	5,500	47.2	6,000	55.8	6,300	61.4	6,500	65.4	6,600	68.3	6,600	35
40			13.9	3,300	39.9	3,900	50.7	4,300	57.3	4,500	61.9	4,600	65.4	4,600	40
45					7.9	2,300	45.1	2,700	53.0	2,900	58.4	3,000	62.3	3,100	45
50					19.6	1,100	38.9	1,500	48.4	1,700	54.7	1,800	59.2	1,900	50

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

	BOOM LENGTH BOOM LEN 33.15 FT 45.15 F				BOOM LENGTH 57.15 FT		BOOM LENGTH 69.15 FT		BOOM LENGTH 81.15 FT		BOOM LENGTH 93.15 FT		ENGTH 15 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)	LOAD RADIUS (FT)	360° (LB)
29.3	7,500	41.3	2,700										



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



COUNTERWEIGHT: W/AUX. WINCH 13,100 LBS. W/O AUX. WINCH 14,200 LBS. BOOM LENGTH 33-105 FT.

OUTRIGGER SPREAD 22 FT.

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-176

MODEL RT 450

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

	33 FT OFFSETABLE JIB/NO PULL OUT INSTALLED						33 FT OFFSETABLE JIB/PULL OUT RETRACTED					58 FT OFFSETABLE JIB							
1	0° OF	FŞET	15° 0	FFSET	30° 0	FFSET	0° OF	FSET	15° 0	FFSET	30° 0	FFSET	0° 0F	FSET	15° 0	FFSET	30° 0	FFSET	
LOADED BOOM ANGLE (DEG)	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)	LOADED BOOM ANGLE (DEG)
75	38	9,100*	46	7,300*	52	6,100*	38	9,100*	46	7,300*	52	6,100*	50	5,100*	64	4,100*	75	3,400*	75
73	43	7,800*	50	6,700*	57	5,600*	43	7,800*	50	6,700*	57	5,600*	55	4,800*	69	3,900*	79	3,300*	73
70	50	7,600*	56	6,400*	63	5,500*	50	7,400*	56	6,000*	63	5,100*	63	4,600*	76	3,600*	86	3,000*	70
67	57	7,400*	63	6,000*	69	5,200°	57	6,800*	63	5,500*	69	4,700*	71	4,500*	83	3,300*	92	2,800*	67
64	63	6,400*	69	5,300*	75	4,700*	63	5,800*	69	4,800*	75	4,100*	78	4,400*	90	3,000*	98	2,600*	64
61	70	5,600*	76	4,800*	81	4,200*	70	5,000*	76	4,200*	81	3,700*	86	4,000*	97	2,900*	104	2,300*	61
58	76	5,000*	81	4,300*	86	3,800*	76	4,300*	81	3,700*	86	3,300*	93	3,600*	103	2,700*	110	2,300*	58
54	83	4,300*	88	3,800*	93	3,400*	83	3,600*	88	3,100*	. 93	2,800*	102	3,100*	111	2,600*	117	2,200*	54
50	90	3,800*	95	3,300*	99	3,100*	90	3,100*	95	2,700*	99	2,500*	110	2,700*	118	2,300*	123	2,000*	5 0
46	97	3,300*	101	2,900*	105	2,700*	97	2,600*	101	2,300*	105	2,100*	117	2,000	124	1,900	128	1,800*	46
42	103	2,900*	107	2,700*	110	2,500*	103	2,200*	107	2,000*	110	1,900*	123	1,400	. 130	1,300	133	1,300	42
38	109	2,200	112	2,000	115	1,800	109	1,500	112	1,400	115	1,300	129	1,100					38
32	117	1,500	116	1,400	121	1,400													32

NOTES FOR JIB CAPACITIES

- A. 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.
- For boom angle not shown, use the capacity of the next lower boom angle.
- C. Listed radii are for extended main boom only

ON TIRES

	MAX		21:00 X	25–28PR						
	BOOM			PICK & CARRY				PICK & CARRY		
RADIUS	LENGTH	STATIO	NARY	CREEP	2.5 MPH	STATIO	NARY	CREEP	2.5 MPH	RADIUS
(FT)	(FT)	360°	STRA	GHT OVER	FRONT	360°	STRAIG	HT OVER	FRONT	(FT)
10	33	36,000	70,000*	53,100*	47,200*	39,500*	61,800°	47,200*	39,800*	10
12	33	30,600	64,900*	49,400*	43,700*	32,100*	57,000*	43,300*	36,300*	12
15	33	22,900	53,500	41,800*	35,900*	23,000	48,800*	36,600*	30,200*	15
20	45	14,000	31,800	31,800	27,000*	14,700	33,200	27,500*	22,500*	20
25	45	9,300	21,700	22,000	21,000	10,500	21,500	21,200	17,100*	25
30	45	6,100	15,300	15,300	15,300	7,500	15,400	15,400	13,000*	30
35	45	4,000	12,000	12,000	12,000	5,200	11,900	11,900	10,300*	35
40	57	2,400	9,400	9,400	9,400	3,500	9,500	9,500	8,200*	40
45	57		7,400	7,400	7,400	2,000	7,600	7,600	6,500*	45
50	57		6,000	6,000	6,000		6,000	6;000	5,100*	50
55	69		4,700	4,700	4,700		4,700	4,700	4,000*	55
60	69		3,600	3,600	3,600		3,600	3,600	3,000*	60

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.
- Without outriggers, never maneuver the boom beyond listed load radii for applicable tires to ensure stability.
- 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	
STD. HOIST	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000	
AUX HOIST	9,080	18,160	27,240	36,320	45,400	54,480	65,560	70,000	81,270	90,000	
HOOK BLOCK	7,400	14,800	22,200	29,600	37,000	44,400	51,800	59,200	66,600	74,000	
	WIRE ROPE: 5/8* ROTATION RESISTANT COMPACTED STRAND, 18X19 OR 19X19 MINIMUM BREAKING STRENGTH - 22.7 TONS 5/8* 6X19 OR 6X37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 17.9 TONS										

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
21:00 X 25-28 PR	85 PSI	85 PSI	85 PSI	65 PSI
26:50 X 25-26 PR	65 PSI	65 PSI	65 PSI	50 PSI



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 Operator's, Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through 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 ENGI-NEERS (ASME) SAFETY STANDARDS FOR CRANES.
- 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

- 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 pressures in tires. Consult Operator's Manual for precautions.
- Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
- Consult appropriate section of the Operator's and Service Manual for more exact description 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.
- Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.

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.

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.
- Power telescoping boom sections must be extended equally.
- 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.
- 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.
 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* 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.
- 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 had at all times.
- 13. FOR TRUCK 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.

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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