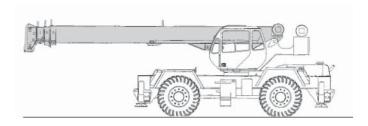




Rough Terrain Crane Specifications I RT300-1 Series



STANDARD BOOM EQUIPMENT

BOOM

30-94' (9.23-28.78 m), four section full power, mechanically synchronized boom. High-strength four plate construction with side plate holes. Anti-friction slide pads. Single boom hoist cylinder. Maximum tip height is 100' (30.48 m).

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. Provisions made for side-stow jib mounting.

OPTIONAL BOOM EQUIPMENT

JIBS

32' (9.68 m) side stow swing-on one-piece lattice type jib. Single sheave mounted on anti-friction bearing. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 129' (39.32 m) with 94' (28.49 m) boom

32-49' (9.68 -14.86 m) side-stow swing-on lattice type jib. Single sheave mounted on anti-friction bearing. Jib is extendible to 49' (14.86 m) by means of a 17' (5.18m) manual pull-out tip section, roller supported for ease of extension. Jib is offsettable at 0°, 15°, or 30°. Maximum tip height is 147' (44.81 m) with 94' (28.49 m) boom.

AUXILIARY BOOM HEAD

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

HOOK BLOCK

Three or four metallic sheaves on anti-friction bearings with hook and heavy duty hook latch.

HOOK AND BALL

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



RT300-1 SERIES

STANDARD UPPERSTRUCTURE EQUIPMENT

UPPERSTRUCTURE FRAME

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

TURNTABLE CONNECTION

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

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

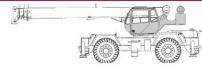
Heavy duty multiple disc swing brake is mechanically actuated from operator's cab by foot pedal. Brake may be locked on or used as a momentary brake

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 warning and automatic function disconnects.

OPERATORS 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 all 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 mechanical bar suspension and includes head and arm rests.



CONTROLS

All control levers and pedals are positioned for efficient operation. Armrest mounted dual axis controls for winch(s), swing, and boom elevation, winch rotation indication incorporated into control handles. Armrest swings up to improve access and egress. Vernier adjustable hand throttle included. Steering column mounted turn signal, wiper, and shift controls. Winches include ignition, engine stop, lights, horn, roof window wiper, hot air defroster, steering mode, parking brake, outriggers, 360° house lock. Horn and winch speed shift switches are mounted in the levers. Foot control pedals include swing brake, boom telescope, 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 and low coolant level audio/visual warning, hoist drum rotation indicator(s) and Rated Capacity Indicator. Accessories include fire extinguisher; light package including headlights, tail light, brake lights, directional signals, four-way hazard flashers, dome light and back-up lights with audible back-up alarm; windshield washer/wiper; skylight wipers; 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 have electric/hydraulic operators and include 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, Tachometer, Work Lights, Rotating Beacon

STANDARD CARRIER EQUIPMENT

CARRIER CHASSIS

High strength chassis with four-wheel drive and four-wheel steer (4x4x4). Has box beam type construction with reinforcing cross members, a precision machined turn table mounting plate and integrally welded outrigger boxes. Decking has anti-skid surfaces, including tool storage compartment, and access steps and handles 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.



23.5R25 tiresTwo-wheel: 36' 10.75" (11.25 m)
Four-wheel: 20' 4.7" (6.22 m)

21.00x25 tires 36' 8.7" (13.2 m) 24' 7" (7.5 m)

TRANSMISSION

Range-shift type power-shift transmission with integral torque converter has neutral safety start, six speeds forward and six speeds reverse provides wide ration coverage. Automatic pulsating back-up alarm.



RT300-1 SERIES

STANDARD CARRIER EQUIPMENT (CONTINUED)

MULTI-POSITION OUT AND DOWN OUTRIGGERS

Fully independent hydraulic outriggers may be utilized fully extended to 22'(6.71 m) centerline to centerline, in their 1/2 extended position, or fully retracted for maximum flexibility. Easily removable aluminum floats, each with an area of 452 in2 (2 919 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 AND TIRES

Disc type wheels with full tapered bead seat rim. 150.50" (3.82 m) wheel-

TIRES

23.5R25** std., 21.00x25 28 PR opt.

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

Main and auxiliary winch pump

- ▶ 59.5 gpm (225.2 lpm) @ 3,500 psi (246.1 kg/cm²) Boom Hoist and 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)

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 electronic rotation indicator.

Performance Max line speed (no load)	LO-Range	HI-Range		
First layer Fifth layer	184 fpm (56.1 m/min) 266 fpm (81.1 m/min)	369 fpm (112.5 m/min) 533 fpm (162.5 m/min)		
 Max. line pull-first layer Max. line pull-fifth layer Permissible line pull 	15,639 lb (7 094 kg) 10,827 lb (4 911 kg) 9,000 lb (4 082 kg)	7,298 lb (3 310 kg) 5,052 lb (2 292 kg)		

Drum Capacity

Max. Storage: 570' (173.7 m)

6th layer is not a working layer

Max. useable: 455' (138.7 m)*

Drum Dimensions

▶ 10.62" (270 mm) drum diameter

▶ 17.55" (446 mm) length

▶ 18.0" (457 mm) flange dia.

Cable: 5/8" x 450' (16 mm x 137.2 m)

Cable type: 5/8" (16 mm) 6 x 19 IWRC XIPS, right regular lay, performed.

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

OPTIONAL AUXILIARY WINCH

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

Performance	(Same as main winch)
Drum Dimensions and Capacity	(Same as main winch)

SERVICE BRAKES

Split system air over hydraulic brakes on all four wheels, 18" diameter disc single caliper brakes on front wheels and single caliper brakes on rear axle.

PARKING BRAKE

Front axle equipped with spring-set, air released emergency/parking brake.

OPTIONAL EQUIPMENT

Immersion Heater, Pintle Hook(s), Clearance Lights, Independent Rear Steering, Four Mode Rear Wheel Steer, 20,000 lb line pull front mounted winch.

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 114 gal (432 liters). Hydraulic oil cooler is standard.

OPTIONAL HOIST LINE

Main winch and optional auxiliary winch-5/8' (16mm) rotation resistant compacted strand 18 x 19 or 19 x 19. Min. breaking strength 22.6 tons (20.6 mt).

ENGINE SPECIFICATIONS

Make and Model	Cummins QSB5.9 (155 hp)
Type	6 cylinder
Bore and Stroke	4.02 x 4.72" (102x120 mm)
Displacement	360 cubic inches (5.91)
Rated HP	155 hp (116 kw) @ 2500 rpm
Maximum HP	160 hp (119 kw) @ 2300 rpm
Rated Torque	440 lb•ft (597 N•m) @ 1500 rpn
Aspiration	turbocharged
Air Filter	dry type
Electrical System	12 volt
Alternator	100 amp
Battery	(2) 12V-1600 CCA
Fuel Capacity	50 gal (189 L)

PERFORMANCE

Trans- mission Gear	Forward Drive	Max. Speed	Max. Tractive Effort	Grade- ability @ Stall*
▶ 1	4-wheel	1.5 mph	78,999 lb	240%
		2.4 km/h	35 800 kg	
2	4-wheel	3.3 mph	38,900 lb	66.8%
		5.3 km/h	17 237 kg	
3	4-wheel	9.0 mph	13,900 lb	19.4%
		14.5 km/h	6 309 kg	
4	2-wheel	4.6 mph	27,165 lb	42.5%
		7.4 km/h	12 322 kg	
5	2-wheel	9.5 mph	13,029 lb	18%
		15.3 km/h	5 910 kg	
6	2-wheel	24.5 mph	4,768 lb	5.2%
		20. 4 Jan /h	0,100 km	

*All performance data is based on a gross vehicle weight of 81,000 lb (36 741 kg).23.5x25 tires, 4x4 drive Performance may vary due to engine performance. Gradeability data is theoretical and is limited by tire slip, machine stability, or oil pan design.



GENERAL DIMENSIONS

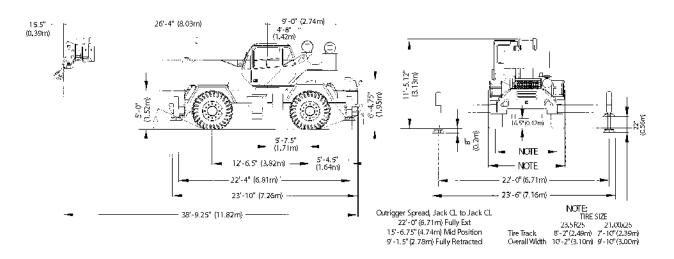
1. Dimensions given assume the boom is fully retracted in travel position and 23.5R25 tires. Add 3.0" (76 mm) for 21.00x25 tires.

2. Minimum ground clearance under: transmission-21.62" (549 mm)

axle bowls-18.65" (474 mm)

3. Approach and departure angles: 23.5R25 21.00x25
Approach angle (A): 22" 26°

Approach angle (A): $22^{"}$ 26° Departure angle (B): $18^{"}$ 21°



WEIGHTS &	GROSS WEIGHT		FACING ONT	GROSS WEIGHT	UPPER FACING FRONT				
AXLE LOADS	LB	FRONT	REAR	KG	FRONT	REAR			
Basic Crane with 10,000 lb (4536 kg) Counterweight	63,260	30,388	32,872	28 694	13 784	14 910			
Add Options:									
32' (9.68 m) Swing-on jib (Stowed)	+ 1,368	+ 1,814	- 446	+ 621	+ 823	- 202			
32'-49' (9.68 -14.86 m) Swing-on Jib (Stowed)	+ 1,789	+ 2,147	- 358	+ 811	+ 974	- 163			
Auxiliary Boom Head	+ 100	+ 260	- 160	+ 45	+ 118	- 73			
Auxiliary Winch Controls and Plumbing Only	+ 75	+ 0	+ 75	+ 34	+ 0	+ 34			
Auxiliary Winch with Wire Rope, Controls, Etc.	+ 264	- 56	+ 320	+ 120	- 25	+ 145			
40T (36.3 mt) 4-Sheave Hook Block	+ 690	+ 1,017	- 327	+ 313	+ 461	- 148			
30T (27.2 mt) 3-Sheave Hook Block	+ 670	+ 987	- 317	+ 304	+ 448	- 144			
25T (22.7 mt) 2-Sheave Hook Block	+ 682	+ 1,005	- 323	+ 309	+ 456	- 147			
6.25T Hook and Ball (In tool box)	+ 240	+ 261	- 21	+ 109	+ 118	- 9			
Pintle Hook: Front	+ 45	+ 64	- 19	+ 20	+ 29	- 9			
Rear	+ 45	- 22	+ 67	+ 20	- 10	+ 30			
Substitute:									
450' (137.2 m) of 18x19 class spin resistant	+ 60	- 39	+ 99	+ 27	+ 18	+ 45			

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

TEREX Cranes

106-12th Street S.E.

Waverly, Iowa 50677-9466 USA

TEL (319) 352-3920 FAX (319) 352-5727

EMAIL inquire@terexwaverly.com

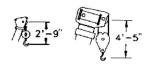
WEB terex.com



Range Diagram and Lifting Capacity | RT335-1

35 TON LIFTING CAPACITY

RANGE DIAGRAM 30' - 94' BOOM



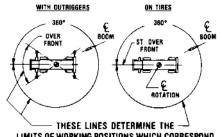
DIMENSIONS ARE FOR LARGEST FACTORY FURNISHED HOOK BLOCK AND HOOK & BALL, WITH ANTI-TWO BLOCK ACTIVATED

COUNTER WEIGHT	W/AUX. WINCH 8,900 LB W/O AUX. WINCH 10,000 LB
BOOM LENGTH	30'-94'
OUTRIGGER SPREAD	22'
STABILITY PERCENTAGE	ON OUTRIGGERS 85% ON TIRES 75%
PCSA CLASS	10-156

2.75	75	770				/WOH2						150′
		100	X									140′
25.75′	11	1	<u>[</u>	60				75				130′
				/		50"						120′
												110'
94'	4				X		/	40				100
83'-	7			/								
. //	7		/							7.01		90,
			X		7	Z	1		\rightarrow	30		80'
MO 50'-	\rightarrow	\mathcal{Y}		\times	<u> </u>		_	$\overline{}$		\backslash		70'
± 50'-	X	\wedge						1		-\	20	60,
13 / 1			X					_\\				50'
39.	\triangle	\wedge	\rightarrow			_					\	3000000
30				1	7						10.	40"
		1	1			1			1			30'
	1	+	+	1		1					\dashv	20'
												10'
© 10° 20 ROTATION	0, 30,	40'	50' 6	50' 7	70' 8	go. 8	10,	100'	110'	120'	130'	GRO LEVI

CRANE WORKING CONDITIONS

CRANE WORKING CONDITIONS



THESE LINES DETERMINE THE — LIMITS OF <u>WORKING POSITIONS</u> WHICH CORRESPOND TO THOSE SHOWN ON THE CRANE CAPACITY CHART.

REDUCTION IN MAIN BOOM CAPACITY

All jib in stowed position 0 lb Aux. boom in head sheave 100 lb

HOOK BLOCK WEIGHTS

Hook and ball	239 lb
Hook block (3 sheave)	670 lb
Hook block (4 sheave)	690 lb

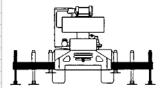


LIFTING CAPACITIES CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change

ON OUTRIGGERS - FULLY EXTENDED

	В	OOM LENGTH 3	0'	В	OOM LENGTH 3	39'	В	OOM LENGTH 5	0'	
LOAD	LOADED BOOM	OVER		LOADED BOOM	OVER		LOADED BOOM	OVER		LOAD
RADIUS	ANGLE	FRONT	360'	ANGLE	FRONT	360'	ANGLE	FRONT	360'	RADIUS
(FT)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LS)	(LB)	(FT)
10	63.0	70,000*	70,000*	69.4	46,600*	46,600*				10
12	58.5	60,800*	60,800*	66.2	46 600*	46,600*	71.7	46,600*	46,600*	12
15	51.4	50,600*	50,600*	61.2	46,600*	46,600*	68.0	44,300*	44,300*	15
20	37.4	36,100*	36,100*	52.3	36,900*	36,900*	61.6	37,500*	37,500*	20
25	13.7	27,300*	27,300*	42.0	28,200*	28,200*	54.8	28,800*	28,800*	25
30	**			28.8	22,300*	22,300*	47.3	22,900*	22,900*	30
35				**			38.7	18,800*	18,800*	35
40							27.9	15,600*	15,600*	40
45							7.9	13,100*	13,100*	45
50							**			50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90

USE THESE CHARTS ONLY WHEN ALL OUTRIGGERS **ARE FULLY EXTENDED**



	BOC	M LENGTH	61'	B00	OM LENGTH	72'	B00	M LENGTH	83'	B00	M LENGTH	52'	
	LOADED			LOADED			LOADED			LOADED			
LOAD	BOOM	OVER		BOOM	OVER		BOOM	OVER		BOOM	OVER		LOAD
RADIUS	ANGLE	FRONT	360°	ANGLE	FRONT	360°	ANGLE	FRONT	360°	ANGLE	FRONT	360°	RADIUS
(FT)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(FT)
10													10
12													12
15	72.1	38,100*	38,100*										15
20	67.1	33,000*	33,000*	70.8	27,400*	27,400*							20
25	61.9	27,900*	27,900*	66.5	23,100*	23,100*	69.8	21,800*	21,800*	72.2	1,500*	17,500*	25
30	56.3	23,300*	23,300*	62.0	19,900*	19,900*	66.0	18,300*	18,300*	69.0	15,000*	15,000*	30
35	50.4	19,100*	19,100*	57.4	17,400*	17,400*	62.2	15,900*	15,900*	65.7	13,100*	13,100*	35
40	43.9	16,000*	16,000*	52.5	15,400*	15,400*	58.1	13,800*	13,800*	62.2	11,500*	11,500*	40
45	36.5	13,500*	13,500*	47.2	13,800*	13,800*	53.9	12,100*	12,100*	58.7	10,100*	10,100*	45
50	27.3	11,500*	11,500*	41.4	11,800*	11,800*	49.5	10,900*	10,900*	55.1	9,000*	9,000*	50
55	13.0	9,900*	9,900*	34.8	10,200*	10,200*	44.7	9,700*	9,700*	51.2	8,200*	8,200*	55
60	**			26.9	8,800*	8,800*	39.5	8,800*	8,800*	47.2	7,300*	7,300*	60
65				15.5	7,700*	7,700	33.6	7,900*	7,800	42.8	6,600*	6,600*	65
70				**			26.6	6,900	6,800	38.0	6,000*	6,000*	70
75							17.0	5,900	5,800	32.7	5,500*	5,500*	75
80							**			26.4	5,000*	5,000*	80
85										18.1	4,600	4,500	85
90										**			90

**MAXIMUM CAPACITY AT O DEGREE BOOM ANGLE

BOOM LENGTH 30' BOOM LENGTH 39'			1 39'	BOOM LENGTH 50'			BOOM LENGTH 61'			BOOM LENGTH 72'			BOOM LENGTH 83'			BOOM LENGTH 94'				
LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER	
RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°
(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)
25.6	26,300	26,300	34.3	18,500	18,500	45.3	12,900	12,900	56.3	9,500	9,500	67.3	7,200	7,100	78.3	5,300	5,200	89.3	4,000	3,900

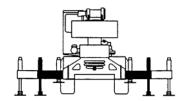


LIFTING CAPACITIES CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change

ON OUTRIGGERS - MID POSITION

	BOOM LE	NGTH 30'	BOOM LE	NGTH 39'	BOOM LE	NGTH 50'	
	LOADED		LOADED		LOADED		
LOAD	BOOM		BOOM		BOOM		LOAD
RADIUS	ANGLE	360°	ANGLE	360°	ANGLE	360'	RADIUS
(FT)	(DEG	(LB)	(DEG)	(LB)	DEG	(LB)	(FT)
10	63.0	70,000*	69.4	46,600*			10
12	58.5	60,800*	66.2	46,600*	71.7	46,600*	12
15	51.4	50,600*	61.2	46,600*	68.0	44,300*	15
20	37.4	33,000	52.3	33,800	61.6	34,300	20
25	13.7	21,200	42.0	22,400	54.8	22,800	25
30	**		28.8	15,900	47.3	16,500	30
35			**		38.7	12,500	35
40					27.9	9,600	40
45					7.9	7,400	45
50					**		50
55							55
60							60
65							65
70							70
75							75
80							80
85							85
90							90

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



	BOOM LENGTH 61'		BOOM LEI	NGTH 72'	BOOM LE	NGTH 83'	BOOM LE	NGTH 94'	
	LOADED		LOADED		LOADED		LOADED		
LOAD	BOOM		BOOM		BOOM		BOOM		LOAD
RADIUS	ANGLE	360°	ANGLE	360°	ANGLE	360°	ANGLE	360°	RADIUS
(FT)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(FT)
10									10
12									12
15	72.1	38,100*							15
20	67.1	33,000*	70.8	27,400*					20
25	61.9	23,100	66.5	23,100*	69.8	21,800*	72.2	17,500*	25
30	56.3	16,800	62.0	17,000	66.0	17,100	69.0	15,000*	30
35	50.4	12,800	57.4	12,900	62.2	13,100	65.7	13,100*	35
40	43.9	10,000	52.5	10,200	58.1	10,300	62.2	10,400	40
45	36.5	7,900	47.2	8,100	53.9	8,300	58.7	8,300	45
50	27.3	6,300	41.4	6,600	49.5	6,700	55.1	6,800	50
55	13.0	5,000	34.8	5,300	44.7	5,500	51.2	5,600	55
60	**		26.9	4,300	39.5	4,500	47.2	4,600	60
65			15.5	3,400	33.6	3,600	42.8	3,700	65
70			**		26.6	2,900	38.0	3,000	70
75					17.0	2,300	32.7	2,400	75
80					**		26.4	1,900	80
85							18.1	1,400	85
90							**		90

**MAXIMUM CAPACITY AT O DEGREE BOOM ANGLE

BOOM LENGTH 30'		BOOM LENGTH 39'		BOOM LENGTH 50'		BOOM LENGTH 61'		BOOM LENGTH 72'		BOOM LENGTH 83'		BOOM LENGTH 94'	
LOAD RADIUS	360°	LOAD RADIUS	360°	LOAD RADIUS	360°	LOAD RADIUS	360°	LOAD RADIUS	360°	LOAD RADIUS	360°	LOAD RADIUS	360°
(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)
25.6	20,100	34.3	12,100	45.3	7,300	56.3	4,700	67.3	3,000	78.3	1,900	89.3	1,000

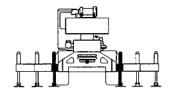


LIFTING CAPACITIES CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change

ON OUTRIGGERS - RETRACTED

	BOOM LE	NGTH 30'	BOOM LE	NGTH 39'	BOOM LE	NGTH 50'	
	LOADED		LOADED		LOADED		
LOAD	BOOM		BOOM		BOOM		LOAD
RADIUS	ANGLE	360°	ANGLE	360°	ANGLE	360'	RADIUS
(FT)	(DEG	(LB)	(DEG)	(LB)	DEG	(LB)	(FT)
10	63.0	51,000	69.4	46,600*			10
12	58.5	35 800	66.2	36,500	71.7	37,100	12
15	51.4	23,800	61.2	24,500	68.0	25,000	15
20	37.4	14,000	52.3	14,800	61.6	15,300	20
25	13.7	8,800	42.0	9,800	54.8	10,400	25
30	**		28.8	6,700	47.3	7,300	30
35			**		38.7	5,200	35
40					27.9	3,700	40
45					7.9	2,400	45
50					**		50
55							55
60							60

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



	BOOM LENGTH 61'		BOOM LE	NGTH 72'	BOOM LE	NGTH 83'	BOOM LE	NGTH 94'	
	LOADED		LOADED		LOADED		LOADED		
LOAD	BOOM		BOOM		BOOM		BOOM		LOAD
RADIUS	ANGLE	360°	ANGLE	360°	ANGLE	360°	ANGLE	360°	RADIUS
(FT)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(FT)
10									10
12									12
15	72.1	25,300							15
20	67.1	15,600	70.8	15,800					20
25	61.9	10,600	66.5	10,800	69.8	10,900	72.2	11,000	25
30	56.3	7,600	62.0	7,800	66.0	7,900	69.0	8,000	30
35	50.4	5,500	57.4	5,700	62.2	5,800	65.7	5,900	35
40	43.9	4,000	52.5	4,200	58.1	4,400	62.2	4,500	40
45	36.5	2,900	47.2	3,100	53.9	3,300	58.7	3,400	45
50	27.3	2,000	41.4	2,200	49.5	2,400	55.1	2,500	50
55	13.0	1,200	34.8	1,500	44.7	1,700	51.2	1,800	55
60	**		26.9	900	39.5	1,100	47.2	1,200	60

**MAXIMUM CAPACITY AT O DEGREE BOOM ANGLE

BOOM LENGTH 30'		NGTH 30'	BOOM LENGTH 39'		BOOM LENGTH 50'		BOOM LENGTH 61'		BOOM LENGTH 72'		BOOM LENGTH 83'		BOOM LENGTH 94'	
	LOAD		LOAD		LOAD		LOAD		LOAD		LOAD		LOAD	
	RADIUS	360°	RADIUS	360°	RADIUS	360°	RADIUS	360°	RADIUS	360°	RADIUS	360°	RADIUS	360°
	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)
	25.6	8,200	34.3	4,700	45.3	2,300	56.3	1,000						



LIFTING CAPACITIESCAUTION: 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

	26' OFFSETTABLE JIB/NO PULL OUT INSTALLED						43' 0	FFSETTABL	E JIB/PULL	OUT RETRA	ACTED		
	0° 0	FFSET	15° 0	15° OFFSET 30° OFFSET		FFSET	0° 0F	FSET	15° C	FFSET	30° C	FFSET	
LOADED	LOAD		LOAD		LOAD		LOAD		LOAD		LOAD		LOADED
BOOM	RADIUS		RADIUS		RADIUS		RADIUS		RADIUS		RADIUS		BOOM
ANGLE	(REI)	360°	(REI)	360°	(REI)	360°	(REI)	360°	(REI)	360°	(REI)	360°	ANGLE
(DEG)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(DEG)
75	38	9,100*	46	7,700*	52	5,900*	41	5,100*	55	3,400*	62	2,700*	75
73	42	8,600*	49	7,300*	55	5,800*	47	4,800*	59	3,300*	68	2,700*	73
71	45	8,200*	52	7,000*	58	5,600*	52	4,500*	64	3,200*	73	2,600*	71
68	50	7,800*	58	6,200*	63	5,100*	60	4,100*	70	3,000*	79	2,500*	68
65	56	6,700*	63	5,500*	68	4,600*	66	3,800*	76	2,900*	84	2,500*	65
62	61	5,900*	68	4,900*	73	4,200*	71	3,600*	81	2,800*	88	2,400*	62
59	66	5,200*	73	4,400*	77	3,800*	77	3,400*	86	2,700*	93	2,400*	59
55	73	4,400*	79	3,900*	83	3,400*	84	3,100*	93	2,600*	99	2,300*	55
51	79	3,800*	85	3,400*	88	3,100*	91	2,900*	99	2,500*	105	2,300*	51
47	86	3,300*	91	3,000*	94	2,800*	100	2,800*	106	2,400*	110	2,200*	47
43	92	2,900*	97	2,700*	99	2,500*	109	2,400*	112	2,200*	116	2,000*	43
38	100	2,400*	103	2,300*	105	2,200*	116	2,100*	119	1,900*	122	1,800*	38
32	106	2,100*	109	2,000*	110	1,900*	122	1,800*	126	1,600*	127	1,500*	32
25	113	1,700*	114	1,700*			129	1,500*	131	1,400*			25
17	118	1,500*	118	1,500*			133	1,300*	135	1,200*			17
0	121	1,200*					138	1,000*					0

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.

B. 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		23.5	R25**		21:00 X 25-28PR					
	BOOM			PICK &	CARRY			PICK 8	& CARRY		
RADIUS	LENGTH	STATIONARY		CREEP 2.5 MPH		STA	TIONARY	CREEP	2.5 MPH		
(FT)	(FT)	360°	ST	RAIGHT OVER FRO	DNT	360°	360° STR		NT		
10	30	30,900	63,700*	46,700*	39,000*	30,500	73,700*	56,000*	47,400*		
12	30	24,900	55,500	40,600*	33,800*	25,400	64,500*	48,900*	41,200*		
15	39	19,100	43,100	33,600*	27,800*	18,900	46,800	40,700*	34,100*		
20	39	12,400	24,600	24,600	20,900*	11,600	24,900	24,900	24,900		
25	50	8,400	16,400	16,400	16,100	7,600	16,500	16,500	16,500		
30	50	5,600	12,500	12,500	12,500	5,200	12,600	12,600	12,600		
35	50	4,300	9,600	9,600	9,600	3,900	9,600	9,600	9,600		
40	61	3,000	7,500	7,500	7,500	2,800	7,600	7,600	7,600		
45	61	2,300	6,100	6,100	6,100	2,100	6,200	6,200	6,200		
50	61	1,600	5,000	5,000	5,000	1,400	5,200	5,200	5,200		
55	61		4,300	4,300	4,300		4,300	4,300	4,300		
60	72		3,500	3,500	3,500		3,600	3,600	3,600		
65	72		2,800	2,800	2,800		2,800	2,800	2,800		
70	83		2,200	2,200	2,200		2,200	2,200	2,200		
75	83		1,800	1,800	1,800		1,900	1,900	1,900		
80	94		1,500	1,500	1,500		1,500	1,500	1,500		

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
23.5R25.**	24 PSI	94 PSI	94 PSI	76 PSI
21.00 x 25-28 PR	85 PSI	85 PSI	85 PSI	65 PSI

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7	8	
MAX. LOAD	9,080	18,160	27,240	36,320	45,400	54,480	65,560	72,640	
BOOM HEAD	2	3-D	2-3	1-4-D	2-3-4	2-3-4-D	1-2-3-4	1-2-3-4-D	
HOOK BLOCK	0	3	3-D	1-4	2-3-D	2-3-4	2-3-4-D	1-2-3-4	
WIRE ROPE: 5/8' ROTATION RESISTANT COMPACTED STRAND, 18X19 OR 19X19 MINIMUM BREAKING STRENGTH - 22.7 TONS									

5/8' 6X19 OR 6X37 IWPC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 17.9 TONS

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' (61m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
- E. Refer General Notes for additional information.



General Notes I RT300 Series

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 or 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 to 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 STANDINGS 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 he 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.
- BOOM SIDE OF CRANE The side of the crane over which the boom is positions when in OVER SIDE working position.

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 save 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.
- Do not elevate the boom above 60° unless the boom is positioned in-line with the crane's chassis or the outrigger are extended. Failure to observe this warning may result in loss of stability.

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.
- 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.
- 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 (*).
- 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 then 3* off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.
 - *"Use 2' off the center line of the base boom for a two section boom, 3' for a there section boom, or 4' for a four section boom."
- 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.
- 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 ares as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work areas.
- 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'.
- Weight of clamshell or magnet, plus contents are not to exceed 6,000 lb 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.

TEREX Cranes

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