



**POWER
CRANE**

EQUIPMENT LOAD CHART



TEREX®

RT 100US

100 USt capacity class

Rough terrain crane

Datasheet

imperial



RT 100US

WORKS FOR YOU.™

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RT 100US

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KEY

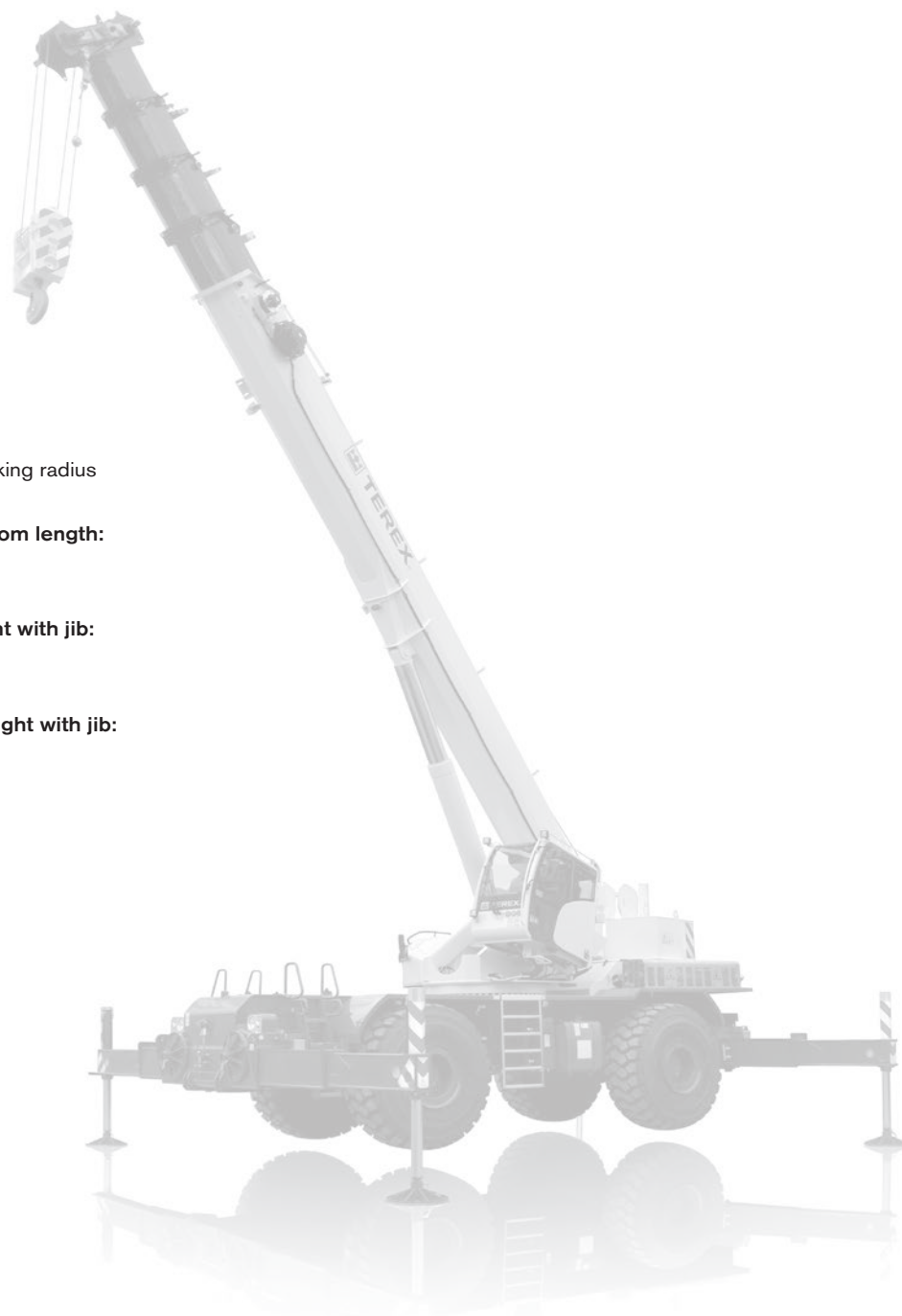
RT 100US

	Counterweight		Performance
	Main boom		Tip height
	Boom length		Boom elevation angle
	Boom extension		Working radius
	Angular offsets		Auxiliary head
	Telescoping		Minimum distance between hook block and boom head
	Outriggers / Lifting on outriggers		Crane / Crane in standard configuration
	Slewing brake		Removable counterweight system
	Slewing / Allowable range		Lifting on wheels / Pick & Carry
	Slewing locked		Gross vehicle weight
	Slewing gears		Weight on front axle
	Hoist speed		Weight on rear axle
	Rope		Hook block
	Rope diameter		Electric circuit
	Rope length		Operation temperature
	Line pull		Speed
	Main hoist		Engine
	Auxiliary hoist		Mechanical transmission
	Lights		Cab
	Gradeability		Operator aid
	Heating / Air conditioning		Rated weight on hook block
	Hydraulics		No. of sheaves
	Steering		Single hook
	Tires		Rams-horn hook
	Controls		No. of lines
	Lubrication system		Differential lock

HIGHLIGHTS

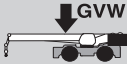
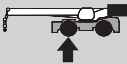
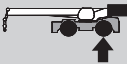
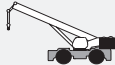
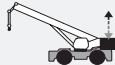
RT 100US

- ▶ **Rated capacity:**
100 USt at 8 ft working radius
- ▶ **Maximum main boom length:**
154.2 ft
- ▶ **Maximum tip height with jib:**
216.5 ft
- ▶ **Maximum hook height with jib:**
209.9 ft



WEIGHTS

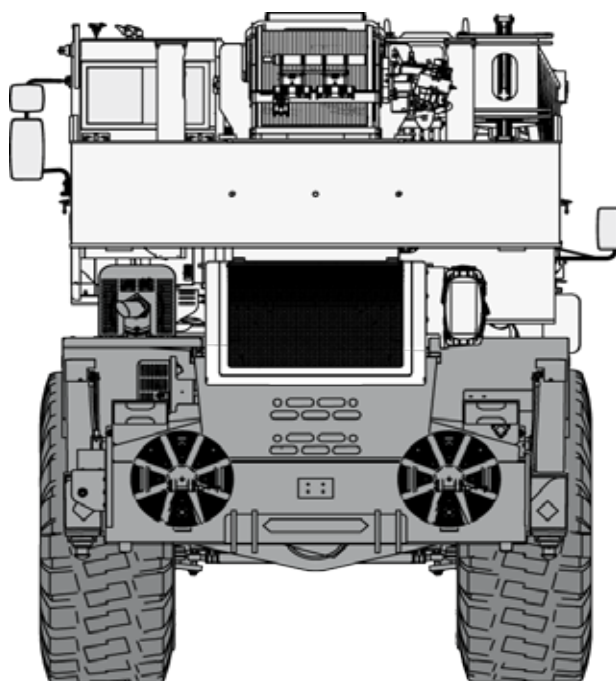
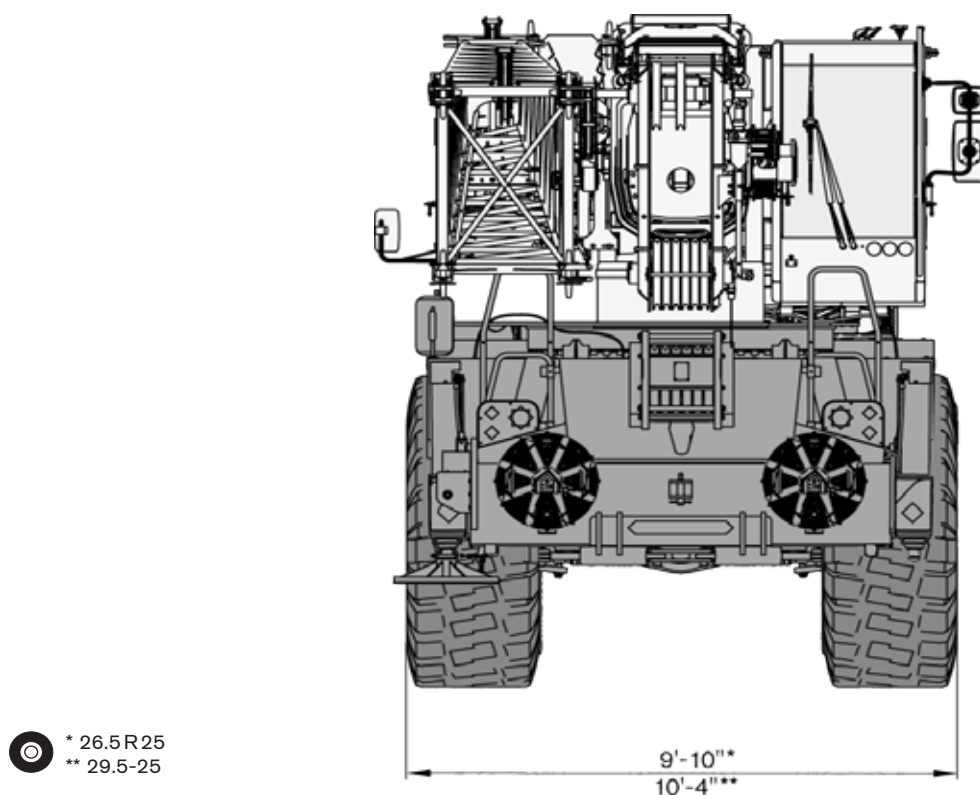
RT 100US

				
 Without hook block Tires 26.5R25		115,919 lb	57,421 lb	58,498 lb
 Without counterweight		93,873 lb	63,368 lb	30,505 lb
Add / Subtract for main optional equipment				
 Removable counterweight system		+ 331 lb	– 89 lb	+ 420 lb
 29.5-25		+ 1,146 lb	+ 573 lb	+ 573 lb
 55.8 ft Jib stowed		+ 3,086 lb	+ 5,959 lb	– 2,872 lb
 Auxiliary sheave		+ 176 lb	+ 503 lb	– 327 lb
 2 Auxiliary winch		+ 2,425 lb	– 451 lb	+ 2,876 lb
 6 100 USt hook block, 6 sheaves		+ 2,094 lb	+ 3,945 lb	– 1,851 lb
 3 55 USt hook block, 3 sheaves		+ 1,102 lb	+ 2,076 lb	– 974 lb
 1 22 USt hook block, 1 sheave		+ 661 lb	+ 1,246 lb	– 584 lb
 11 USt headache ball		+ 397 lb	+ 748 lb	– 351 lb

NOTE: Values are subject to 2% variation

DIMENSIONS

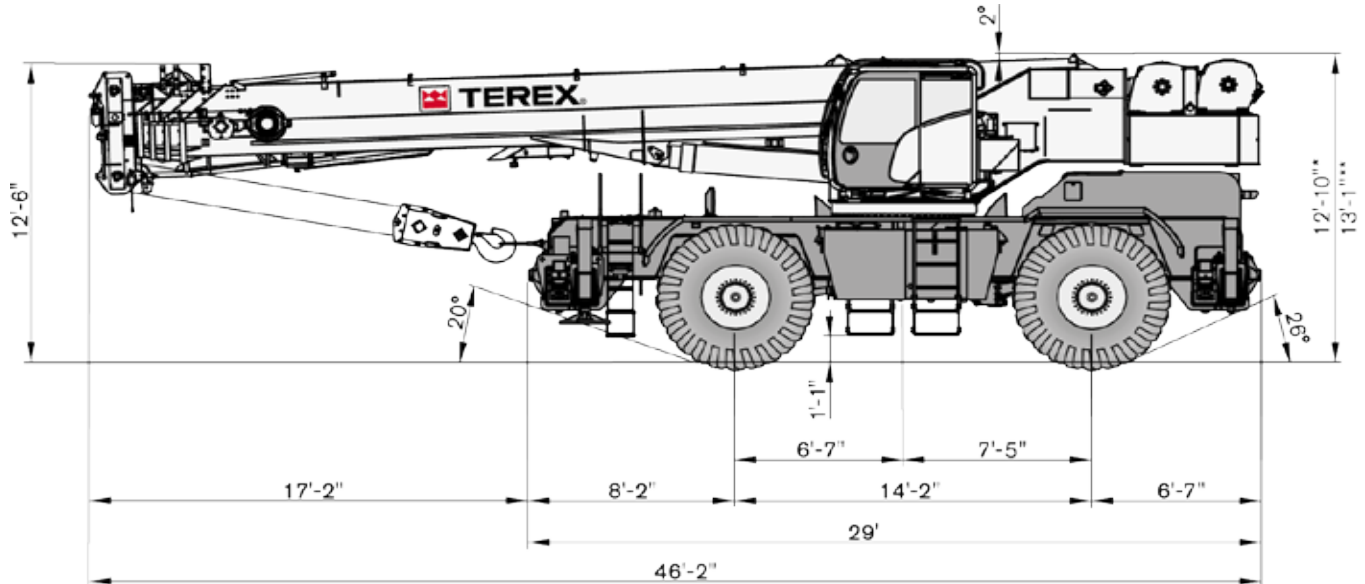
RT 100US



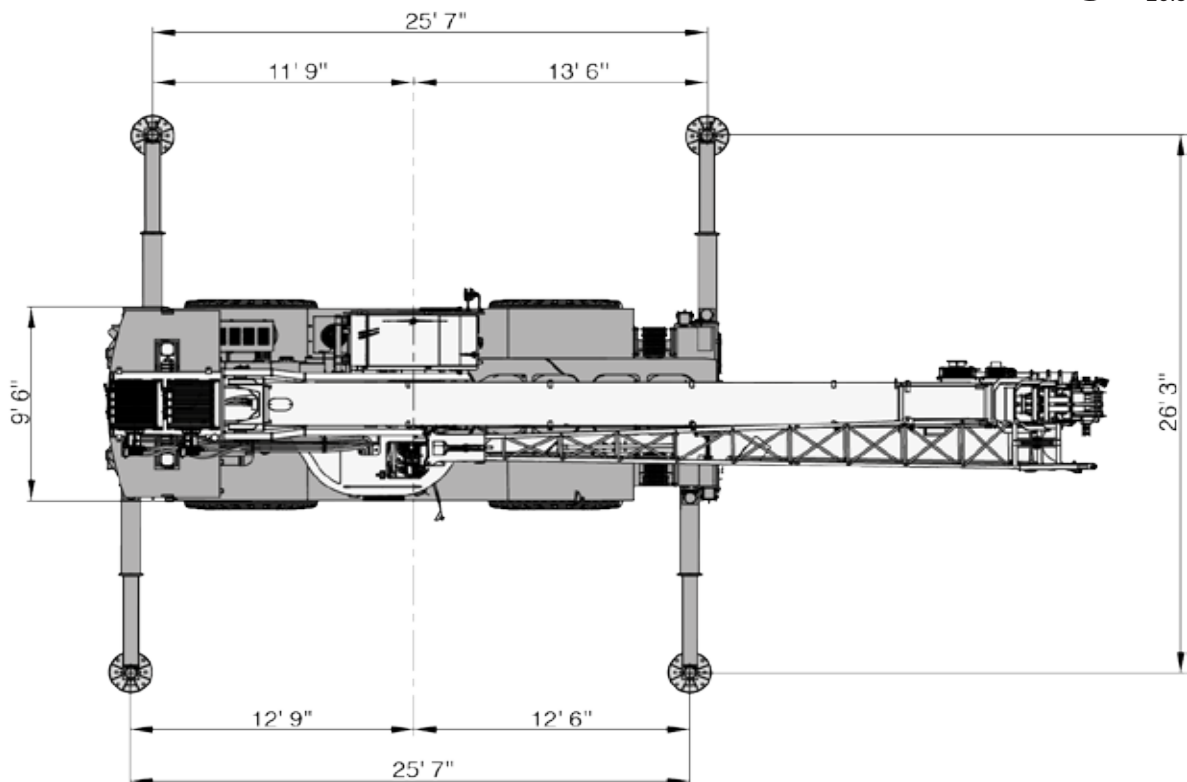


DIMENSIONS

RT 100US



* 26.5R25
** 29.5-25



Drawings show optional rooster sheave

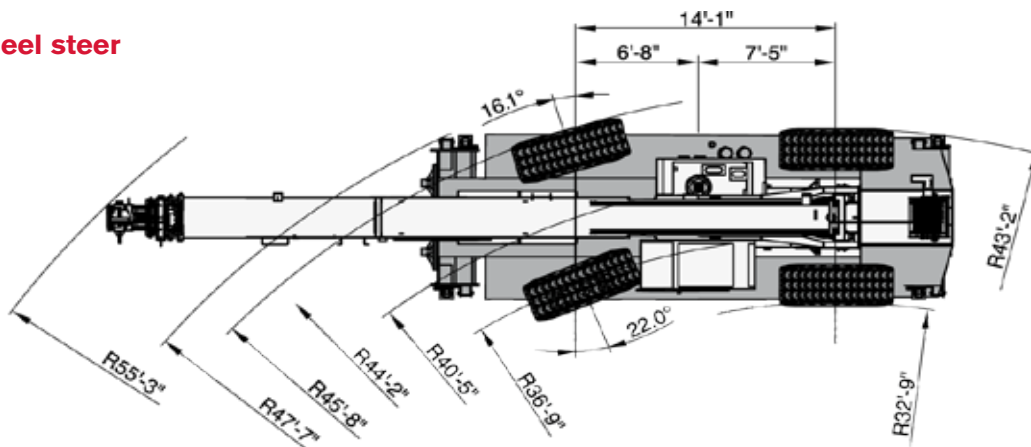


STEERING RADII

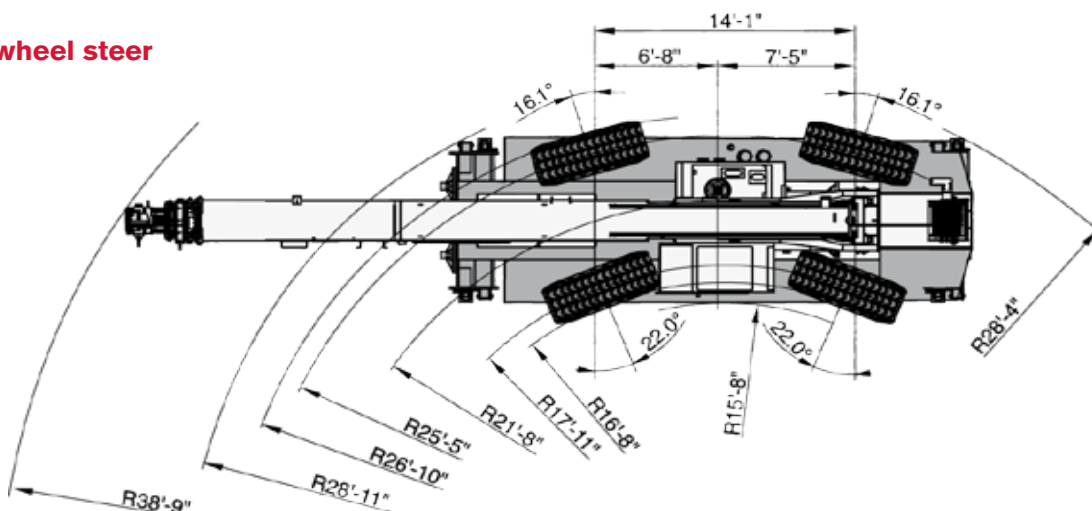
RT 100US

with 26.5R25 tires

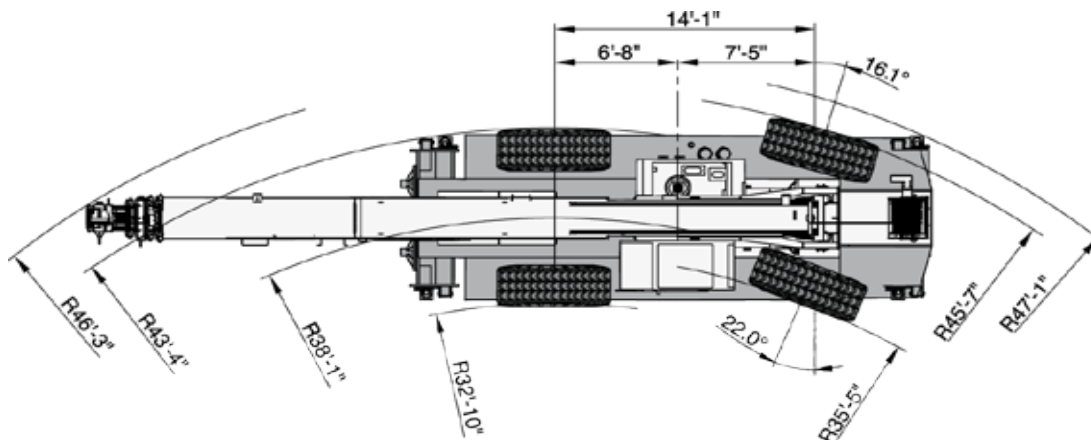
Two wheel steer



Four wheel steer



Rear



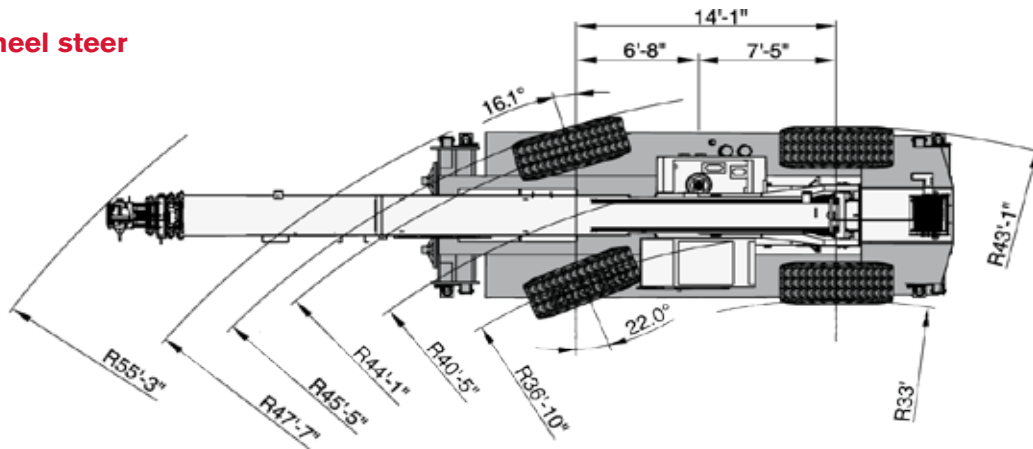


STEERING RADII

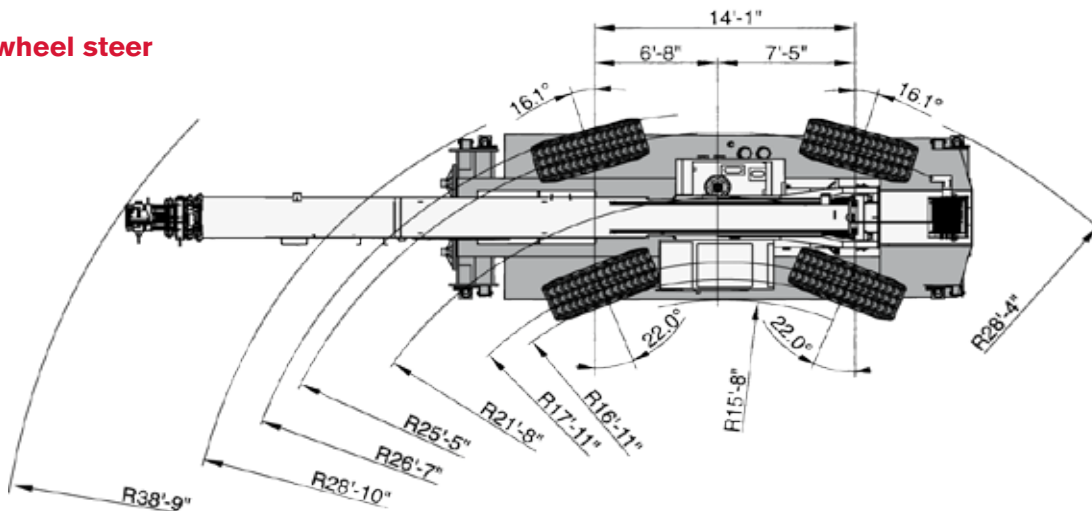
RT 100US

with 29.5-25 tires

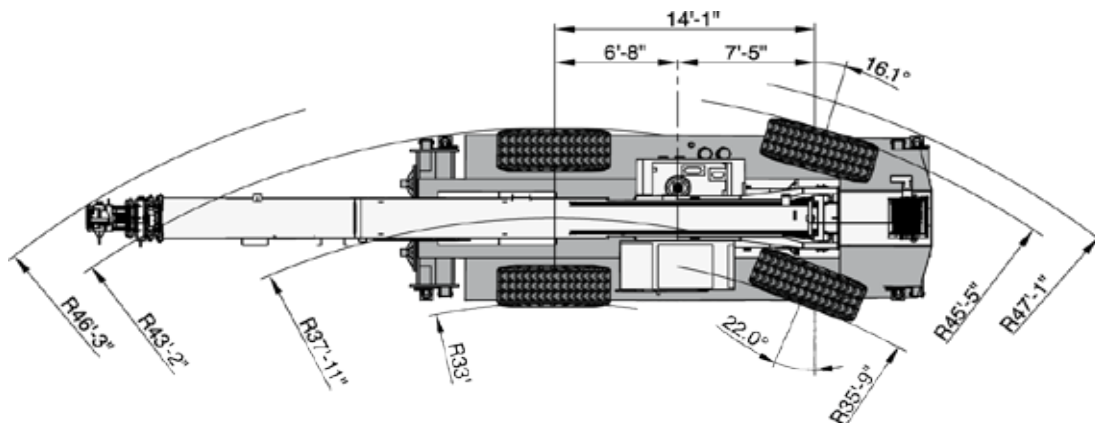
Two wheel steer



Four wheel steer



Rear

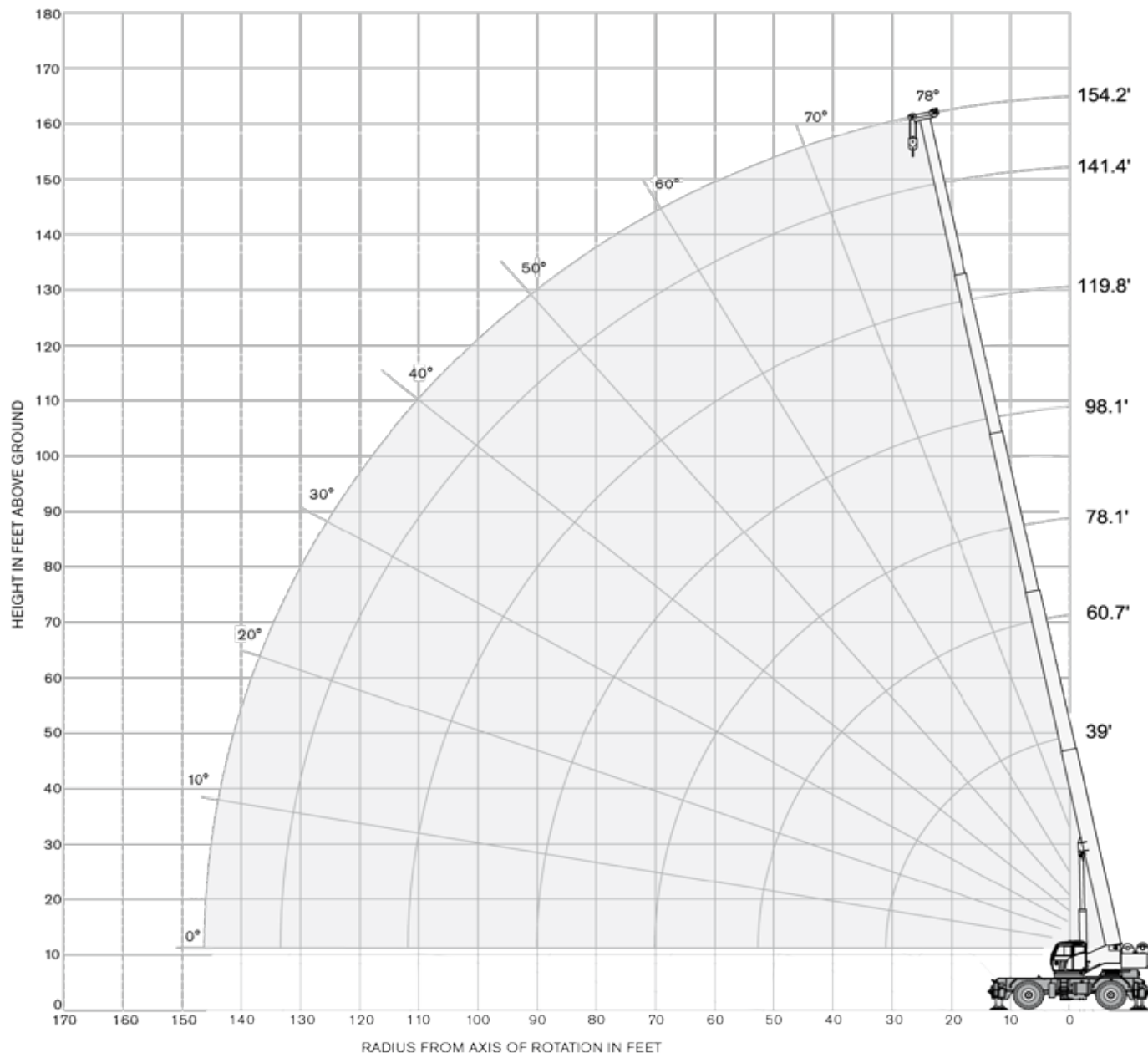
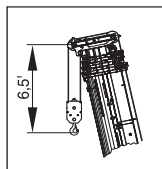
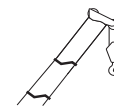




RANGE DIAGRAM – MAIN BOOM

RT 100US

Outriggers Fully Extended (100 %), 3 Modes



TEREX®

LOAD CHART – MAIN BOOM

RT 100US
Outriggers Fully Extended (100 %), 3 Modes
 22,000 lb

 25.6 x 26.2 ft
(100 %)

 360°

Standard ASME
B30.5

	Boom Length							
	39.0 ft	60.7 – 62.0 ft	78.1 – 82.3 ft	98.1 – 102.4 ft	119.8 – 121.1 ft	141.4 – 142.7 ft	154.2 ft	
ft	lb	lb	lb	lb	lb	lb	lb	ft
	200,000*							
8.2	191,800							8.2
10	174,900	101,500						10
15	135,800	79,600	78,700					15
20	99,100	79,600	78,300					20
25	76,000	75,500	73,600	50,500				25
30		62,200	61,300	47,100	33,200			30
35		50,900	50,000	42,200	31,800			35
40		40,300	41,400	37,200	28,900	23,400	19,600	40
45		32,700	33,600	31,500	25,900	20,700	19,400	45
50		27,200	28,000	26,300	23,300	19,800	17,500	50
55			23,500	22,400	21,000	18,300	15,400	55
60			20,000	20,400	18,600	16,700	13,600	60
65			17,300	17,700	15,800	15,200	12,100	65
70			15,100	15,400	13,400	13,800	10,700	70
75				13,300	11,700	12,200	9,600	75
80				11,500	10,600	10,400	8,600	80
85				10,000	9,800	8,900	7,600	85
90				6,800	8,900	7,700	6,700	90
95					8,000	6,500	5,700	95
100					7,000	5,500	4,600	100
105					6,200	4,600	3,700	105
110					5,300	3,800	2,900	110
115						3,100	2,200	115
120						2,400		120

* special equipment needed

Notes to lifting capacity:

see page 21

LOAD CHART – MAIN BOOM

RT 100US
Outriggers Half Extended (50 %), 3 Modes
 22,000 lb

 25.6 x 17.4 ft
(50 %)

 360°

Standard ASME
B30.5

	Boom Length							
	39.0 ft	60.7 – 62.0 ft	78.1 – 82.3 ft	98.1 – 102.4 ft	119.8 – 121.1 ft	141.4 – 142.7 ft	154.2 ft	
ft	lb	lb	lb	lb	lb	lb	lb	ft
8.2	175,700							8.2
10	156,000	101,500						10
15	112,700	79,600	75,600					15
20	65,600	64,400	58,300					20
25	43,000	45,300	43,900	41,100				25
30		32,500	33,300	32,700	27,900			30
35		25,200	25,900	26,300	25,200			35
40		19,600	20,300	20,700	20,900	18,100	16,600	40
45		15,900	16,600	17,000	17,200	15,100	13,800	45
50		13,200	13,700	14,100	14,300	12,600	11,300	50
55			11,300	11,800	12,000	10,500	9,300	55
60			9,400	9,900	10,100	8,800	7,700	60
65			7,900	8,300	8,600	7,200	6,300	65
70			6,800	7,100	7,300	6,000	5,100	70
75				6,000	6,300	4,900	4,100	75
80				5,100	5,300	4,000	3,100	80
85				4,200	4,500	3,100	2,300	85
90					3,800	2,500		90
95					3,100			95
100					2,400			100

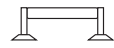
Notes to lifting capacity:

see page 21



LOAD CHART – MAIN BOOM

RT 100US
Outriggers Fully Extended (100 %), 3 Modes
 0 lb

 25.6 x 26.2 ft
(100 %)

 360°

Standard ASME
B30.5

	Boom Length							
	39.0 ft	60.7 – 62.0 ft	78.1 – 82.3 ft	98.1 – 102.4 ft	119.8 – 121.1 ft	141.4 – 142.7 ft	154.2 ft	
ft	lb	lb	lb	lb	lb	lb	lb	ft
8.2	191,800							8.2
10	172,700	101,500						10
15	123,000	79,600	76,500					15
20	86,600	78,600	74,600					20
25	59,300	60,700	54,100	46,500				25
30		41,600	41,300	37,600	32,500			30
35		30,800	31,800	31,200	26,500			35
40		23,000	23,800	24,500	23,100	20,300	18,700	40
45		17,900	18,800	19,500	19,600	16,800	15,200	45
50		14,200	15,000	15,600	16,200	13,800	12,200	50
55			12,000	12,600	13,200	11,200	9,600	55
60			9,600	10,200	10,600	8,900	7,400	60
65			7,700	8,200	8,600	7,100	5,700	65
70			6,200	6,600	7,100	5,500	4,300	70
75				5,300	5,600	4,100	3,100	75
80				4,200	4,400	2,900		80
85				3,100	3,400	2,000		85
90					2,500			90

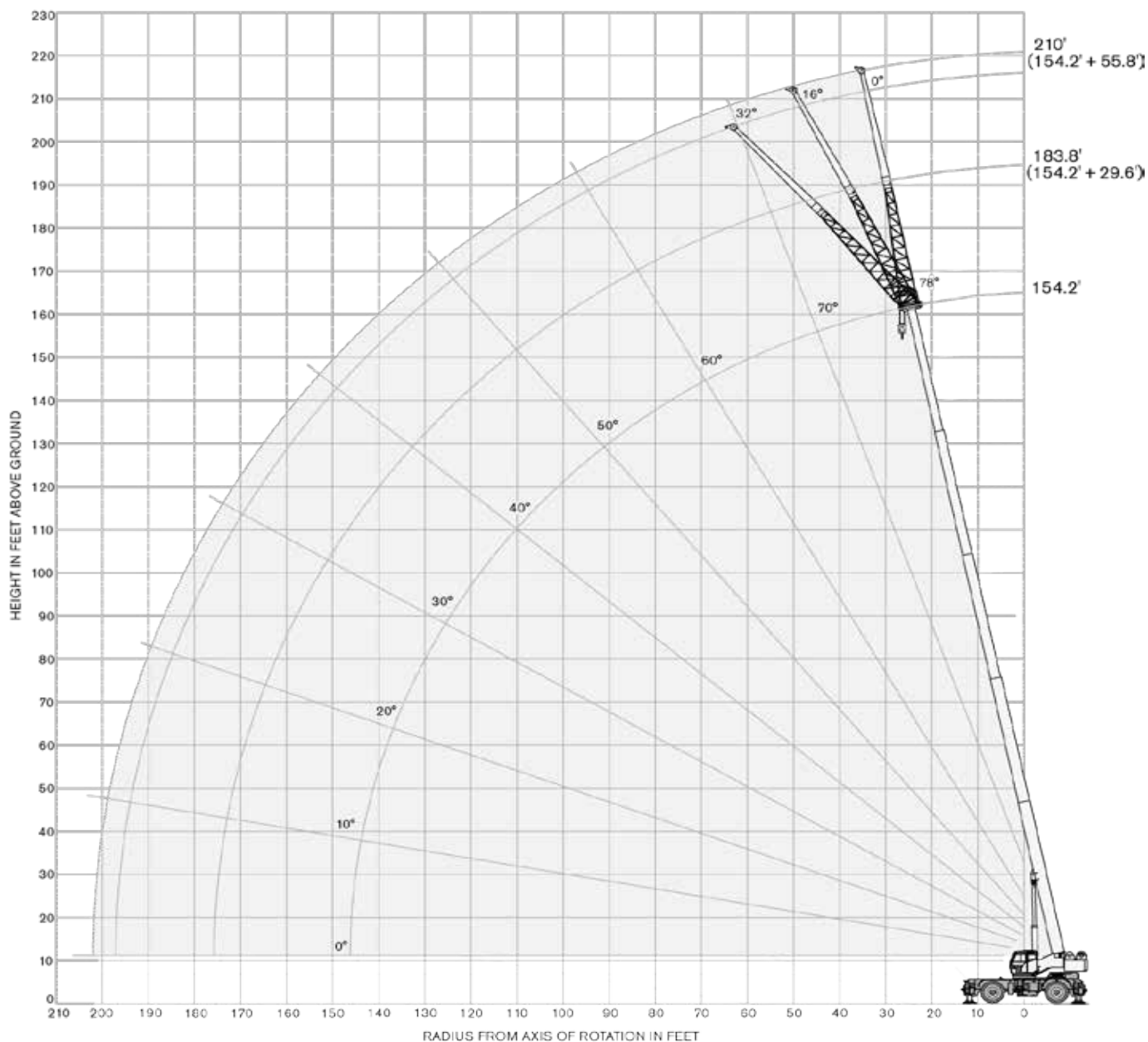
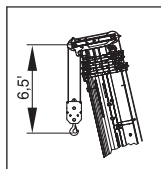
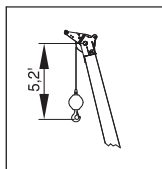
Notes to lifting capacity:

see page 21

RANGE DIAGRAM – JIB

RT 100US

55.8 ft offset, 3 Modes



LOAD CHART – JIB

RT 100US
Outriggers Fully Extended (100 %)
 22,000 lb

 25.6 x 26.2 ft
(100 %)

 360°

Standard ASME
B30.5

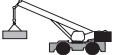
Boom Length 154.2 ft							
	 29.5 ft			 55.8 ft			
	0°	16°	32°	0°	16°	32°	
ft	lb	lb	lb	lb	lb	lb	ft
50							50
55	11,000						55
60	11,000	10,900		6,800			60
65	11,000	10,400	9,500	6,800			65
70	10,400	9,800	9,000	6,800			70
75	9,600	9,200	8,500	6,700	5,500		75
80	8,600	8,600	8,100	6,600	5,500		80
85	7,600	8,000	7,700	6,400	5,300	4,600	85
90	6,500	7,300	7,200	6,200	5,300	4,500	90
95	5,500	6,300	6,700	5,600	5,200	4,400	95
100	4,500	5,200	6,000	4,800	5,000	4,400	100
105	3,500	4,400	4,800	4,000	4,800	4,400	105
110	2,700	3,600	4,000	3,300	4,500	4,200	110
115	2,000	2,700	3,200	2,600	3,900	4,200	115
120			2,400	2,000	3,300	4,000	120
125					2,600	3,500	125
130					1,900	2,800	130
135						2,100	135

Notes to lifting capacity:
see page 21

LOAD CHART – MAIN BOOM

RT 100US
On Tires, Mode 3


 22,000 lb


 On tires
26.5 R 25 / 29.5-25


 360°

Standard ASME
B30.5

Boom Length									
	39 ft	44.9 ft	50.5 ft	56.4 ft	62.0 ft	67.9 ft	73.5 ft	79.4 ft	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
15	27,300	25,600	24,000	22,500	21,400	20,100	19,000	17,900	15
16	24,000	22,500	21,200	20,100	19,000	17,900	17,000	15,900	16
20	19,000	17,900	16,800	15,900	15,000	14,300	13,400	12,800	20
23	15,000	14,100	13,400	12,800	12,100	11,500	10,800	10,400	23
26	12,100	11,500	10,800	10,100	9,700	9,300	8,600	8,200	26
30	9,700	9,300	8,600	8,200	7,700	7,300	6,800	6,400	30
33		7,500	6,800	6,400	6,200	5,700	5,300	5,100	33
39			4,200	3,700	3,500	3,300	3,100	2,600	39
46				2,000	1,800				46

Notes to lifting capacity:
see page 21



LOAD CHART – MAIN BOOM

RT 100US
On Tires, Mode 3
 22,000 lb

**Boom straight over front
Creep**
 On tires
26.5 R 25 / 29.5-25

Standard ASME
B30.5

	Boom Length								
	39 ft	44.9 ft	50.5 ft	56.4 ft	62.0 ft	67.9 ft	73.5 ft	79.4 ft	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
8	54,500								8
10	48,100	48,500	48,700	48,700	48,900	48,900			10
12	42,800	43,200	43,400	43,400	43,700	43,700			12
13	38,400	38,800	39,000	39,000	39,000	39,200	39,200		13
15	34,400	35,100	35,300	35,300	35,300	35,500	35,500	35,500	15
16	31,100	31,700	32,000	32,000	32,000	32,200	32,200	32,200	16
20	25,800	26,500	26,500	26,700	26,700	26,700	26,900	26,900	20
23	21,600	22,000	22,300	22,500	22,500	22,500	22,700	22,700	23
26	18,300	18,700	19,000	19,000	19,200	19,200	19,200	19,200	26
30	15,400	15,900	16,100	16,300	16,300	16,300	16,500	16,500	30
33		13,700	13,700	13,900	14,100	14,100	14,100	14,100	33
39			10,100	10,100	10,400	10,400	10,400	10,400	39
46				7,500	7,500	7,700	7,700	7,700	46
53					5,300	5,500	5,500	5,500	53

Notes to lifting capacity:

see page 21

TECHNICAL DESCRIPTION

RT 100US

Hydraulic Boom

	5 sections	
	Triple mode	Mode 1: Optimized for best capacity on longer radius Mode 2: Optimized for best capacity on short radius Mode 3: Full proportional
	Min. / Max.	39 ft / 154.2 ft
	Max. tip height main boom	164.0 ft
	Boom luffing angle range (min. / max.)	-2° / +78°
	Boom raising / lowering time ⁽¹⁾	50 s / 55 s
	Boom extension / retraction time ⁽¹⁾	120 s / 125 s

Hoist

	Hydraulic motor Rope roller device Normally engaged brake	
	2 speeds	
	Max. ⁽¹⁾	502 ft /min (6th layer)
	Rotational resistant	
		3/4 in
		820 ft
	Permissible line pull	16,000 lb

Upper Structure

		22,000 lb
	Non stop Maximum speed ⁽¹⁾	360° 1.0 rpm
	Hydraulic motor Planetary reducer	

TECHNICAL DESCRIPTION

RT 100US

Cab and Controls

	S-space cab:
	Sliding door
	Wide visibility
	Front and upper window with windscreen wiper
	Upper windows can be opened
	Tilttable cab
	Fully adjustable seat onto shockproof suspensions
	Equipped with tilttable arm rests with integrated hand controls for crane operation
	Radio with CD player
	Seat belts
	Climatized cab
	Air-conditioning
	Electro-proportional joysticks
	IC-1 control system – Load indicator with graphic interface
	Adjustable working light outside the cab

Carrier

	Cummins QSB6.7 Stage 4 - Tier 4F	
	No. of cylinders	6
	Gross power	225 hp @ 2200 rpm
	Maximum gross torque	770 lb-ft @ 1500 rpm
	Fuel tank capacity	79 gallons
	Diesel Exhaust Fluid (DEF)	10 gallons
	Rear axle differential lock	

Vehicle Performance

	Max. ⁽²⁾	76 %	
	Max. ⁽²⁾	Tires 29.5-25	19.3 mph
		Tires 26.5 R25	18.0 mph
	Min. / Max.	-20° / 45 °C	
		(-20 °C with special fluids and options)	

Tires

	Earth moving style	29.5-25
---	--------------------	---------

TECHNICAL DESCRIPTION

RT 100US

Options

	Cummins QSB6.7 Stage IIIA - Tier 3	
	No. of cylinders	6
	Gross power	220 hp @ 2200 rpm
	Maximum gross torque	700 lb-ft @ 1500 rpm
	Fuel tank capacity	79 gallons
	Auxiliary winch	
		26.5 R 25
	Bi-fold extension	29.5 ft / 55.8 ft
	Rooster sheave	
	Auxiliary diesel heater	
	Centralized lubrication system	

Note: refer to your local dealer for a full list of options.

(1) Indicative value only for reference.

(2) Standard crane in travelling configuration – value calculated with nominal tire radius and max power delivered to the wheels.

NOTES TO LIFTING CAPACITY

RT 100US**Notes page 11-13 + 15-17**

Weight of hook blocks and slings is considered part of the load and must be subtracted from the capacity ratings.
Consult operation manual for further details.

Note: Data published herein is intended as a guideline only and shall not be construed to warrant applicability for lifting purposes.
For actual crane operation refer to the computer charts and the operating manual, both of which are supplied with the crane.



NOTES





NOTES

RT 100US

TEREX CRANES**Rough Terrain Cranes**

Via Cassoletta, 76 – Fraz. Crespellano
40053 Valsamoggia (BO)
Italy

Ph: +39 051 6501011

Email: info.cranes@terex.com

Tower Cranes

Via delle Innovazioni, 17
33074 Fontanafredda (PN)
Italy

Ph: +39 0434 989111

Email: info.cranes@terex.com

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www.terex.com/cranes

Brochure Reference: RT-DS-I-E-RT100US-12/19

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