



### ROUGH TERRAIN CRANE RT 670

**DATASHEET - IMPERIAL** 



#### **Features:**

- Rated capacity:70 ton @ 9 ft working radius
- Maximum boom length: 111 ft
- Maximum tip height: 170 ft

**WORKS FOR YOU.** 



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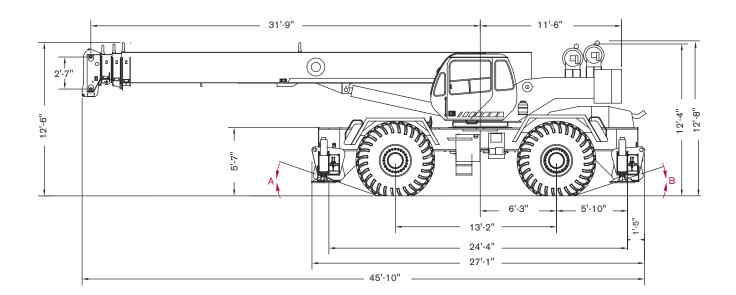
KEY RT 670

	Counterweight		General performance
	Main boom		Telescoping mode
	Boom length	A	Boom luffing angle
/ The last of the	Tip height		Working radius
	Boom with extension	R	Max. boom length with extension
	Main boom with aux head		Distance from the hook to the head sheave pin
(b)	Slewing / Allowable slewing range		Slewing locked / Slewing locked at specified position
(+)	Slewing brake	(+)	Slewing gears
	Outriggers / Lifting on outriggers (100/50/0% extended)		Lifting on wheels / Pick & Carry
1	Main hoist	2	Auxiliary hoist
	Hoist speed		Rope length
	Rope - Standard / Optional	<b>←</b>	Max. line pull
	Rope diameter	0	Tire
	Hook block		Controls
	Cab		Engine
	Operator aids / Load limiter / Load indicator		Steering
<b>(2)</b>	Mechanical transmission		Speed
HYDR	Hydraulics	<u> </u>	Heating / Air conditioning
	Working temperature		Gradeability
<b>≣</b> O	Lights	GVW	Gross vehicle weight
	Crane / Crane in standard configuration		Weight on front axle
	Crane without counterweight		Weight on rear axle



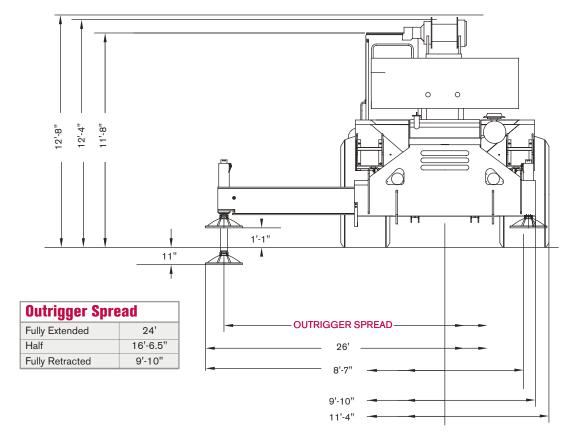
# **CRANE DIMENSIONS**

**RT 670** 



**Note:** All heights based on 26.5 X 25-26 PR tires.

Angles				
Α	(Approach Angle)	19°		
В	(Departure Angle)	18°		







# **CRANE WEIGHTS**

**RT 670** 

### **Approximate Weights**

		<b>↓</b> Gvw		
	STD (without hook block)	85,694 lb	45,238 lb	40,456 lb
Add / Subtra	act for main optional equipment			
	33 ft to 57 ft swing on jib stowed	+ 2,170 lb	+ 3,580 lb	- 1,410 lb
	Auxiliary boom head	+ 125 lb	+ 365 lb	- 240 lb
2	Auxiliary hoist*	+ 584 lb	- 30 lb	+ 614 lb
	5 sheaves, 75T	+ 1,040 lb	+ 1,971 lb	– 931 lb
	5 sheaves, 60T	+ 1,204 lb	+ 2,233 lb	- 1,029 lb

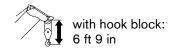
NOTE: Values are subject to 2% variation

<sup>\*</sup> Weight includes rope

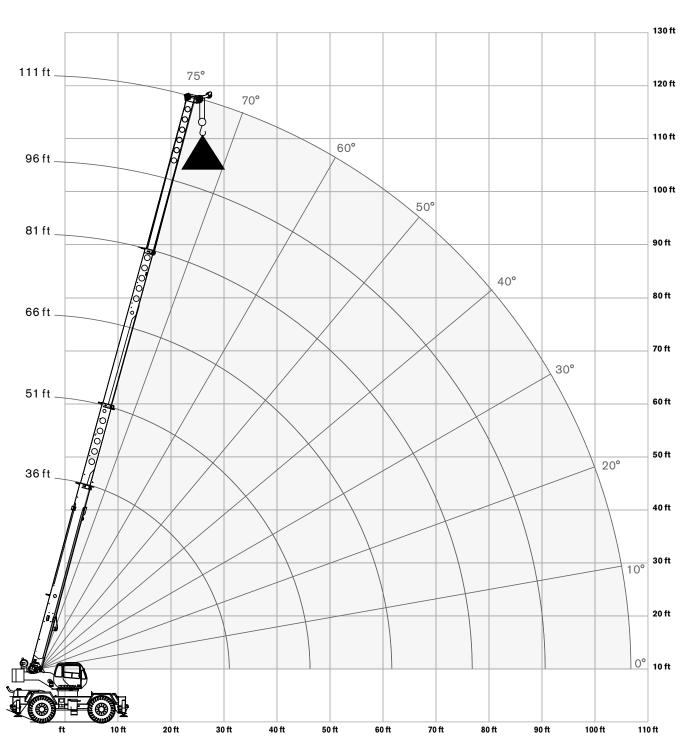


**RT 670** 

**Outriggers Fully Extended (100%)** 







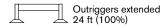




**RT 670** 

### **Outriggers Fully Extended (100%)**







Standard ASME

	Boom Length						
/ <del>/~</del>	35 ft	51 ft	66 ft	81 ft	96 ft	111 ft	/ <del>/~</del>
ft	lb	lb	lb	lb	lb	lb	ft
9	140,000						9
10	130,000	80,000					10
12	106,700	80,000					12
15	85,800	78,400	61,900				15
20	62,000	63,300	54,800	46,200			20
25	47,600	48,800	49,100	40,700	35,300		25
30	37,700	39,100	39,800	36,000	31,200	27,500	30
35		32,200	32,900	32,300	28,000	24,800	35
40		26,900	27,400	27,800	25,300	22,500	40
45		21,300	22,100	22,400	22,600	20,600	45
50			18,200	18,500	18,700	18,800	50
55			15,100	15,500	15,700	15,800	55
60			12,600	13,100	13,300	13,400	60
65				11,200	11,400	11,500	65
70				9,500	9,800	9,900	70
75				8,100	8,400	8,600	75
80					7,300	7,400	80
85					6,200	6,400	85
90					5,300	5,600	90
95						4,800	95
100						4,100	100
105						3,500	105

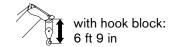
### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

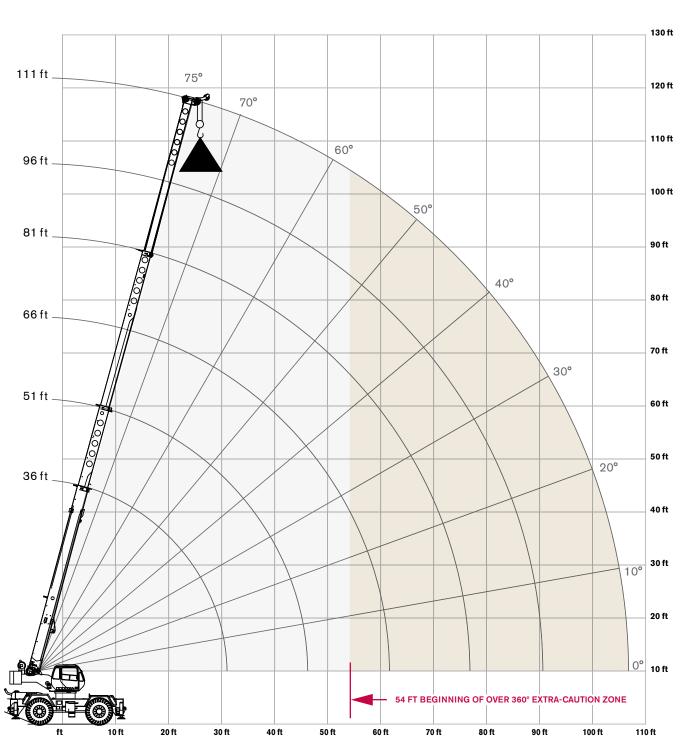


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**Outriggers Fully Retracted (0%)** 







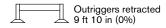




**RT 670** 

### **Outriggers Fully Retracted (0%)**







Standard ASME

	Boom Length						
<b>/</b> √ <b>←</b>	35 ft	51 ft	66 ft	81 ft	96 ft	111 ft	
ft	lb	lb	Ib	Ib	lb	Ib	ft
10	73,600	74,800					10
12	51,600	52,600					12
15	34,200	35,200	35,700				15
20	20,000	21,300	21,700	22,000			20
25	12,700	14,000	14,500	14,800	14,900		25
30	8,100	9,500	10,100	10,400	10,600	10,700	30
35		6,500	7,100	7,500	7,600	7,700	35
40		4,300	4,900	5,300	5,500	5,600	40
45		2,500	3,300	3,700	3,900	4,000	45
50				2,400	2,600	2,800	50

#### **Notes to lifting capacity**

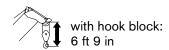
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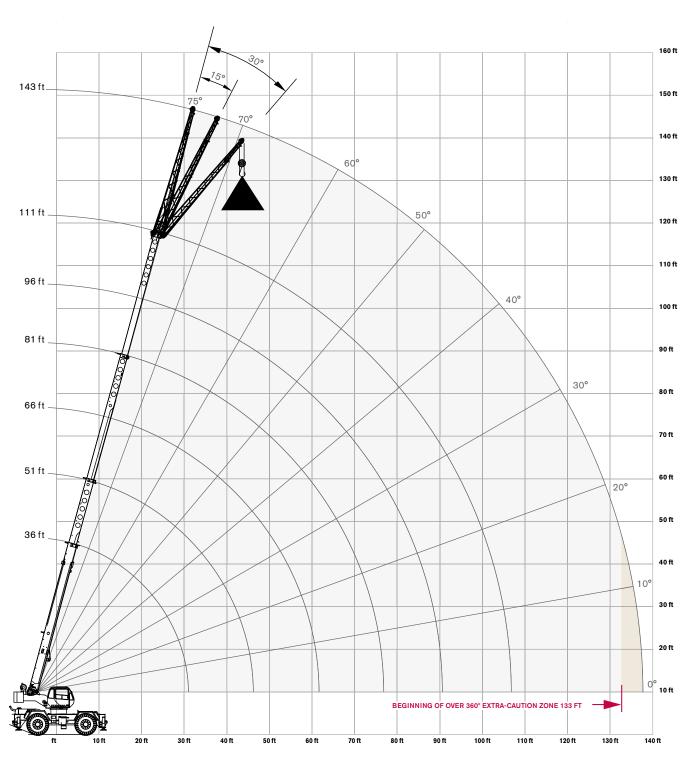


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With Jib, 33 ft offset





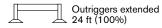




**RT 670** 

With Jib, 33 ft offset







Standard ASME

33 ft Offsettable Jib					
0° Of	fset	15° O	ffset	30° Offset	
Radius (ft)	lbs	Radius (ft) lbs		Radius (ft)	lbs
41	12,500	49	8,400	55	6,500
47	11,800	54	8,100	60	6,300
52	11,200	59	7,700	64	6,200
59	10,300	66	7,300	71	5,900
66	9,500	72	7,000	77	5,800
72	8,800	79	6,700	84	5,600
79	8,100	85	6,400	89	5,400
87	6,700	92	6,100	96	5,200
94	5,600	99	5,100	103	4,900
101	4,600	106	4,300	109	4,100
107	3,800	112	3,500	114	3,500
114	3,000	120	2,800	120	2,800
122	2,200	125	2,100	126	2,100
129	1,700	132	1,600		
135	1,200	137	1,200		

#### **Notes to lifting capacity**

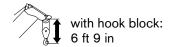
Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

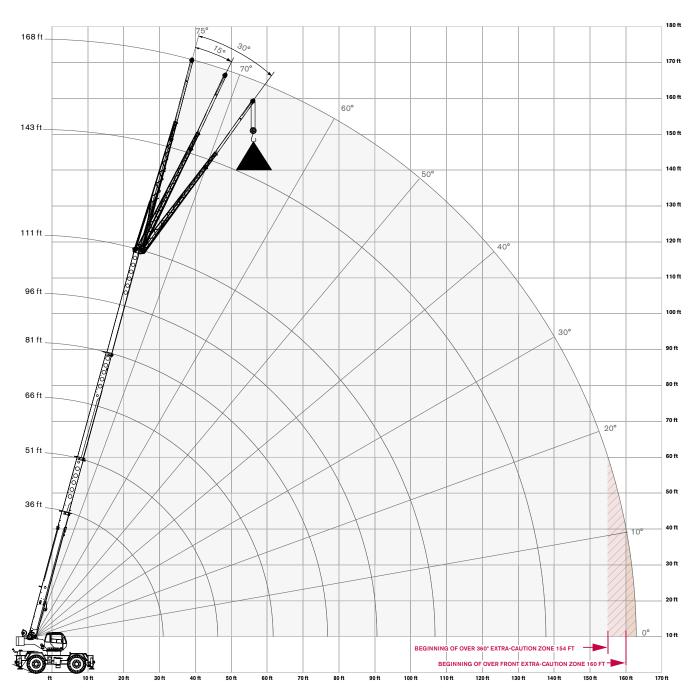


**RT 670** 



With Jib, 57 ft offset





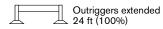




**RT 670** 

With Jib, 57 ft offset







Standard ASME

57 ft Offsettable Jib						
0° Of	fset	15° O	ffset	30° Offset		
Radius (ft)	lbs	Radius (ft) lbs		Radius (ft)	lbs	
52	6,500	64	4,500	74	3,300	
58	6,100	70	4,300	80	3,200	
64	5,800	76	4,100	85	3,100	
73	5,500	83	3,800	92	3,000	
81	5,100	91	3,600	99	2,900	
89	4,700	98	3,400	106	2,800	
96	4,400	105	3,300	112	2,700	
105	4,000	113	3,100	119	2,600	
114	3,700	121	2,900	126	2,600	
122	3,400	128	2,800	132	2,500	
129	2,900	135	2,700	138	2,500	
137	2,300	142	2,100	144	2,100	
145	1,700	149	1,600	149	1,600	
153	1,200	155	1,100			
159	900	160	800			

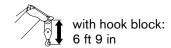
### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

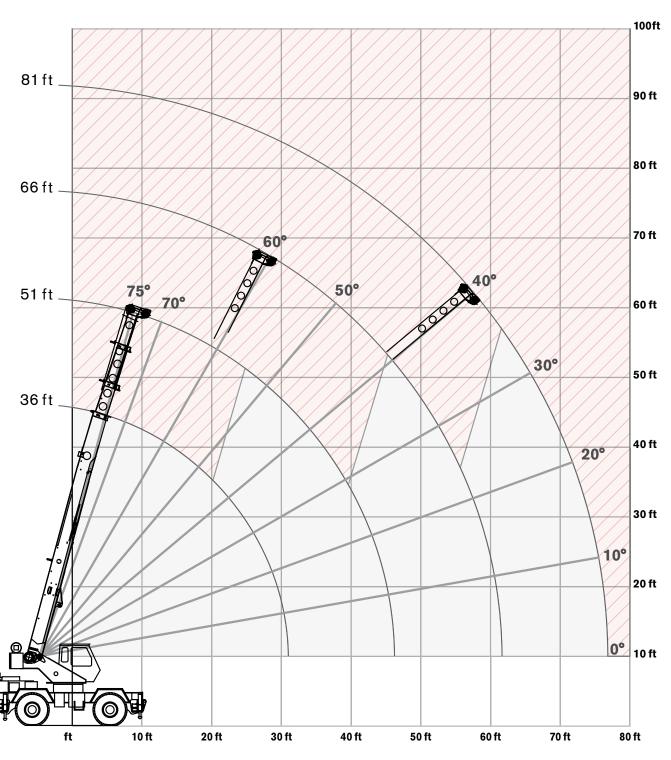


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**On Tires** 









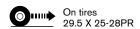


**RT 670** 

**On Tires** 







Standard ASME

Во	om		Travel Speed Boom straight over fror	nt
Radius	Length	0 mph	Creep	2.5 mph
ft	ft	lb	lb	lb
10	36	87,500	68,700	51,800
12	36	77,200	60,400	45,300
15	36	61,300	50,700	37,600
20	36	37,200	37,200	28,700
25	51	22,500	22,500	22,500
30	51	15,600	15,600	15,600
35	51	12,600	12,600	12,600
40	51	10,100	10,100	10,100
45	66	8,000	8,000	8,000
50	66	6,400	6,400	6,400
55	66	5,100	5,100	5,100
60	81	4,100	4,100	4,100
65	81	3,300	3,300	3,300
75	81	2,600	2,600	2,600

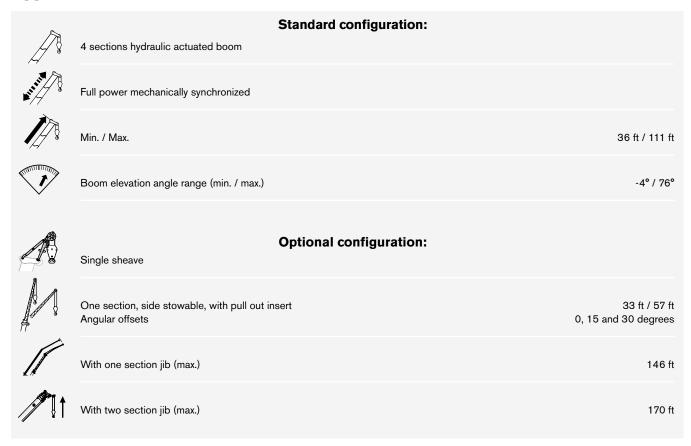
### **Notes to lifting capacity**

Lifting capacities do not exceed 75% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.



**RT 670** 

#### **Boom**



#### **Hoist, Rope and Hook**

	Standard configuration:	
1	Grooved drum Storage capacity	561 ft
	Two speed ratios Without load in 5th layer (low range / high range) Without load in 1st layer (low range / high range)	269 ft/min / 431 ft/min 187 ft/min / 300 ft/min
	6 x 19 IWRC XIPS, right regular lay, preformed	
		3/4 in
		600 ft
<b>←</b>	Max. line pull; 1st layer low-range Max. line pull permissible	18,450 lb 13,800 lb

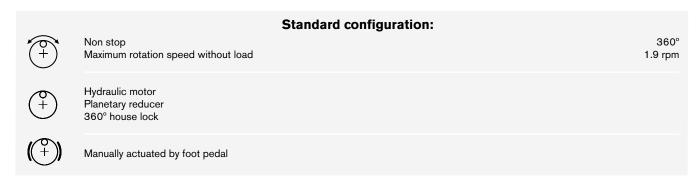




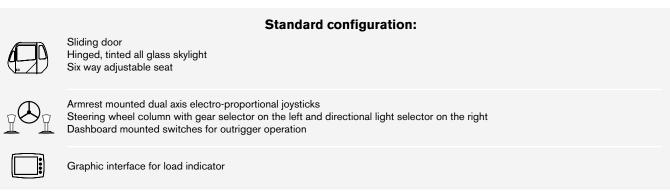
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	Optional configuration:	
	5 sheaves 5 sheaves	60 ton 75 ton
2	Grooved drum Storage capacity	591 ft
	Without load in 5th layer (low range / high range) Without load in 1st layer (low range / high range)	269 ft/min / 431 ft/min 187 ft/min / 300 ft/min
	Rotation resistant compacted strand 34X7	
		3/4 in
		600 ft
<b>←₩₩</b> ₩	Minimum breaking strength Permissible line pull	69,000 lbs 13,800 lbs

### **Superstructure**



### Cab, Controls, Operator aids and Load limiter / Load indicator





RT 670

#### **Optional configuration:**



Hydraulic powered air conditioner Hydraulic powered heater Work lights Rotating beacon

#### **Carrier, Engine, Drive-line and Hydraulic system**

#### Standard configuration:



Hydraulic, independent extension: Diameter of outrigger pads Area of outrigger pads

24 in 452 in<sup>2</sup>



Cummins QSB6.7 6 cylinders

Rated power

Maximum gross torque

Intake: turbocharger with intercooler

Fuel type

Fuel tank capacity

215 hp @ 2,500 rpm 655 ft·lb @ 1,500 rpm

> Diesel 50 gallons



6 x 6 powershift transmission with torque converter

Selectable 4WD (Four-Wheel Drive)

Rigid mounted front axle

Oscillating rear axle

Differential lock on front and rear axles

Rear axle oscillation lock - manual or automatic actuation

Air-over-hydraulic disc brakes

Front axle parking brake

Hydraulic oil cooler



Hydraulic power steering

Front wheel steering

Four wheel steering concentric

Four wheel steering crab



Hydraulic Pumps:

Tandem pumps:

Boom lift / Telescope

Power steering / Outriggers and swing

Single pump:

Main and auxiliary hoist pump

37.3 gal/min @ 3,500 psi 18.7 gal/min @ 3,500 psi

52.7gal/min @ 4,500 psi

Hydraulic oil reservoir capacity Hydraulic oil suction filter Hydraulic oil return filter 116 gallons 250 microns 5 microns



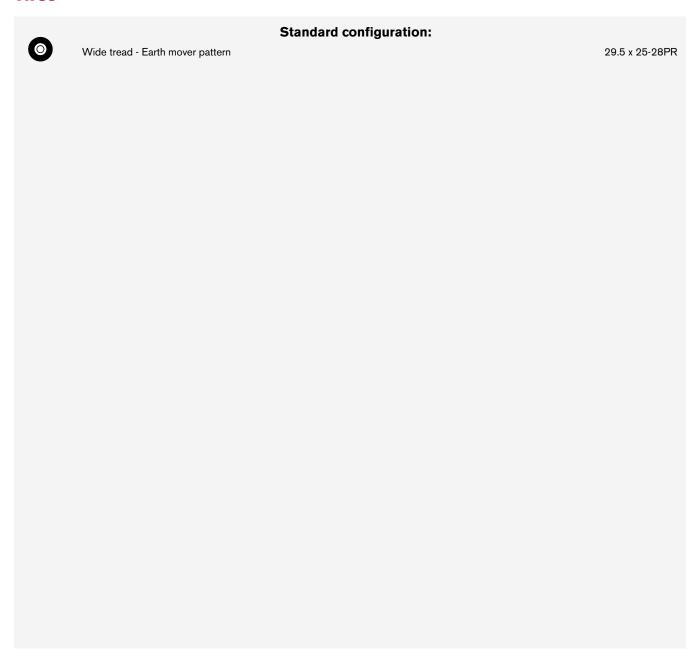


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### **Vehicle performance**

<b>A</b>		Standard configuration:
	Max. in 1 <sup>st</sup> gear Max. in 6 <sup>th</sup> gear	127.6% 5.9%
	Max. (6 <sup>th</sup> gear)	23.4 mph

### **Tires**





**RT 670** 

#### www.terexcranes.com

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Brochure Reference: TC-DS-I-E-RT 670-09/10



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