



TEREX®

RT 670

70 US^t Lifting Capacity

Rough Terrain Cranes

Datasheet

Imperial



RT 670

Features

- ▶ Rated capacity:
70 US^t @ 9 ft working radius
- ▶ Maximum boom length:
111 ft
- ▶ Maximum tip height:
170 ft

WORKS FOR YOU.™



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RT 670

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



























Technical description

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| Cab, controls, operator aids and load limiter / load indicator | 18 |
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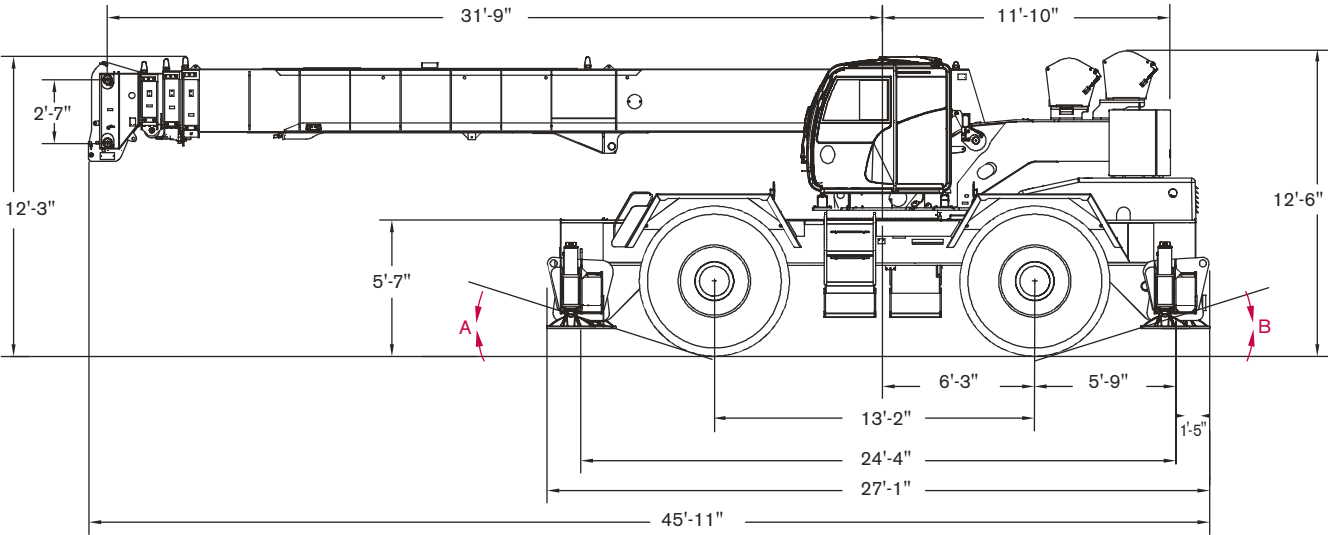
**RT 670**

| | | | |
|---|---|---|---|
|  | Counterweight |  | General performance |
|  | Main boom |  | Telescoping mode |
|  | Boom length |  | Boom luffing angle |
|  | Tip height |  | Working radius |
|  | Boom with extension |  | Max. boom length with extension |
|  | Main boom with aux head |  | Distance from the hook to the head sheave pin |
|  | 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 |
|  | Main hoist |  | Auxiliary hoist |
|  | Hoist speed |  | Rope length |
|  | Rope – Standard / Optional |  | Max. line pull |
|  | Rope diameter |  | Tire |
|  | Hook block |  | Controls |
|  | Cab |  | Engine |
|  | Operator aids / Load limiter / Load indicator |  | Steering |
|  | Mechanical transmission |  | Speed |
|  | Hydraulics |  | Heating / Air conditioning |
|  | Working temperature |  | Gradeability |
|  | Lights |  | Gross vehicle weight |
|  | Crane / Crane in standard configuration |  | Weight on front axle |
|  | Crane without counterweight |  | Weight on rear axle |



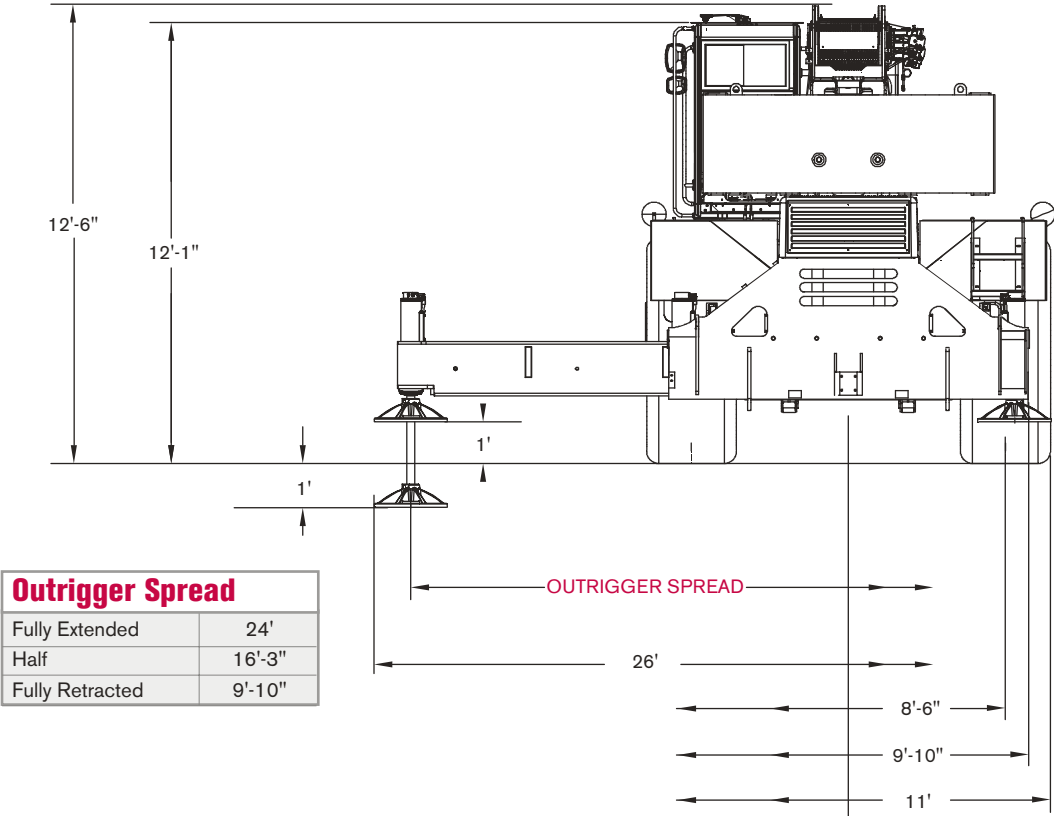
CRANE DIMENSIONS

RT 670



Note: All heights based on 29.5 x 25-28 PR tires.

| Angles | |
|---------------------|-----|
| A (Approach Angle) | 18° |
| B (Departure Angle) | 17° |



| Outrigger Spread | |
|------------------|--------|
| Fully Extended | 24' |
| Half | 16'-3" |
| Fully Retracted | 9'-10" |

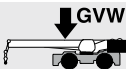
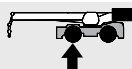

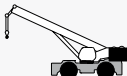









CRANE WEIGHTS

RT 670

Approximate Weights

| | |  |  |  |
|--|--|---|---|---|
|  STD (without hook block) | | 85,694 lb | 45,238 lb | 40,456 lb |
| Add / Subtract 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, 75 US t | | + 1,040 lb | + 1,971 lb | - 931 lb |
|  5 sheaves, 60 US t | | + 1,204 lb | + 2,233 lb | - 1,029 lb |

NOTE: Values are subject to 2% variation

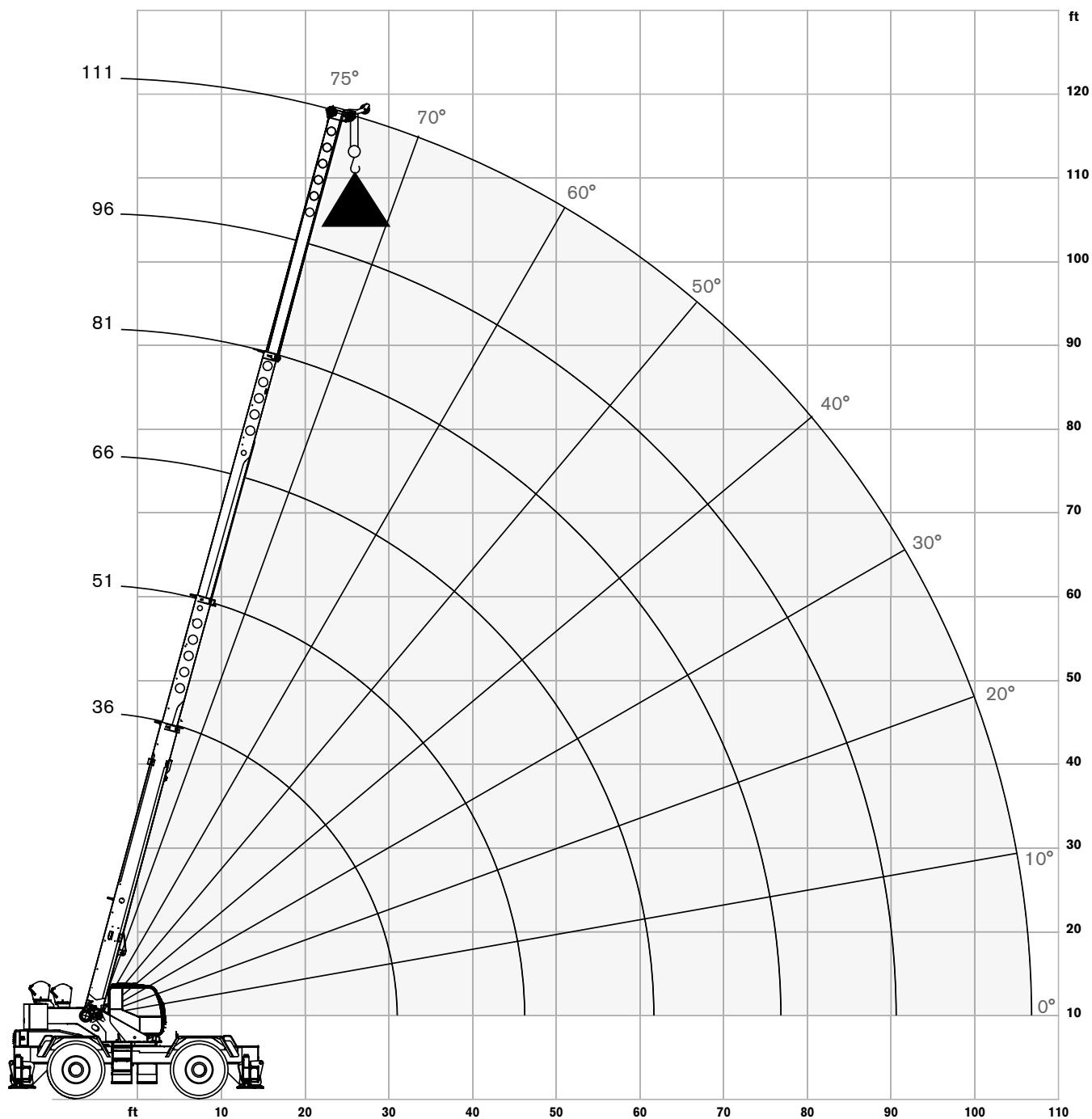
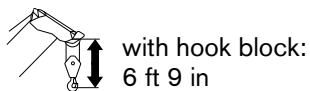
* Weight includes rope



RANGE DIAGRAM - MAIN BOOM

RT 670

Outriggers Fully Extended (100%)



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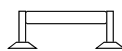



LOAD CHART- MAIN BOOM

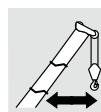

RT 670

Outriggers Fully Extended (100%)


 14,200 lbs
counterweight


 Outriggers extended
24 ft (100%)


 360 degree
rotation
Standard ASME
B30.5

|  | Boom Length | | | | | |  |
|---|-------------|--------|--------|--------|--------|--------|---|
| | 35 ft | 51 ft | 66 ft | 81 ft | 96 ft | 111 ft | |
| 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.

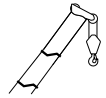
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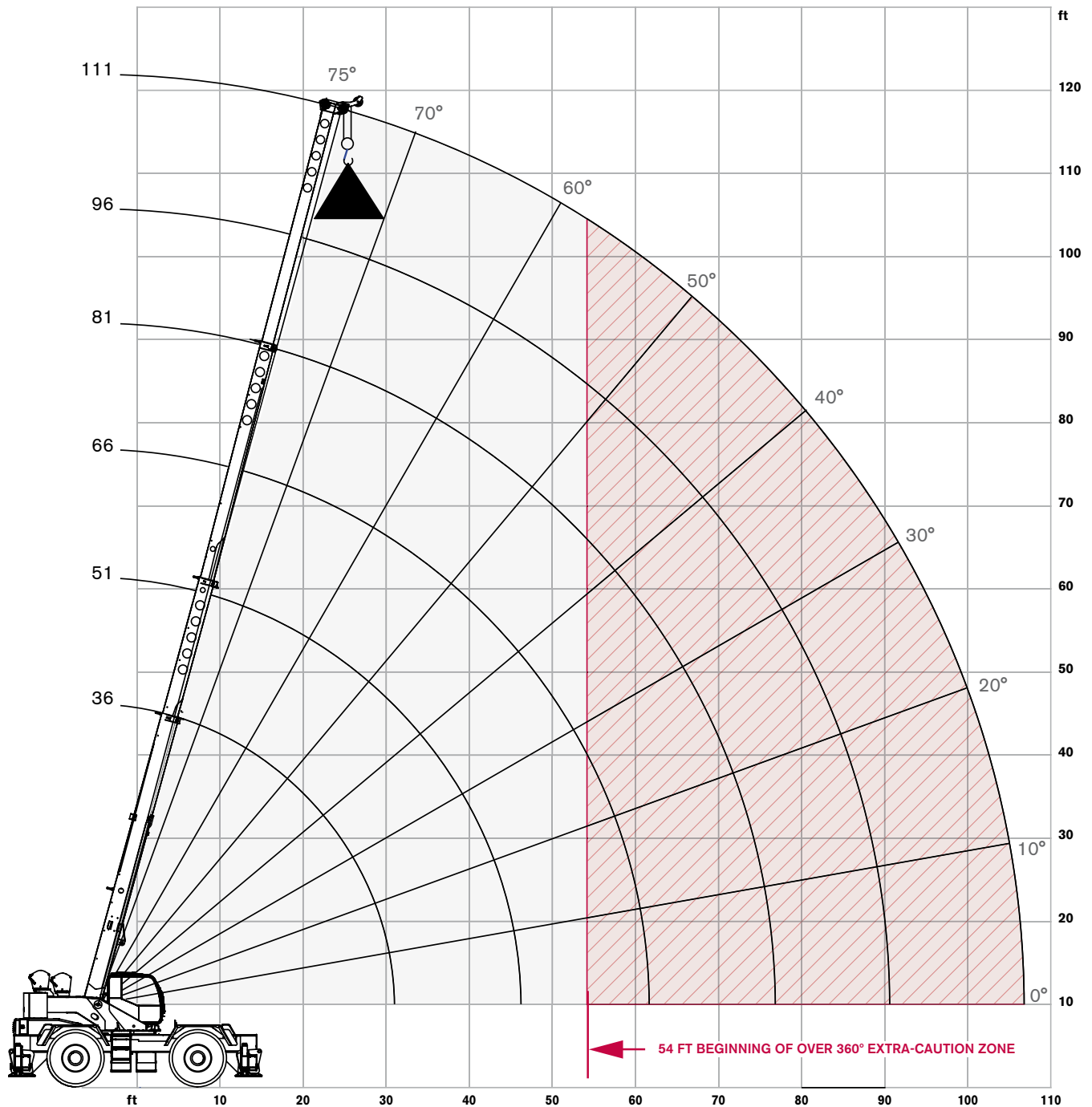
RANGE DIAGRAM - MAIN BOOM

RT 670

Outriggers Fully Retracted (0%)



with hook block:
6 ft 9 in








LOAD CHART- MAIN BOOM

RT 670

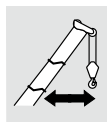
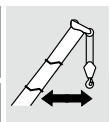
Outriggers Fully Retracted (0%)

 14,200 lbs
counterweight

 Outriggers retracted
9 ft 10 in (0%)

 360 degree
rotation

Standard ASME
B30.5

|  | Boom Length | | | | | |  |
|---|-------------|--------|--------|--------|--------|--------|---|
| | 35 ft | 51 ft | 66 ft | 81 ft | 96 ft | 111 ft | |
| ft | lb | lb | lb | lb | lb | lb | 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

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.

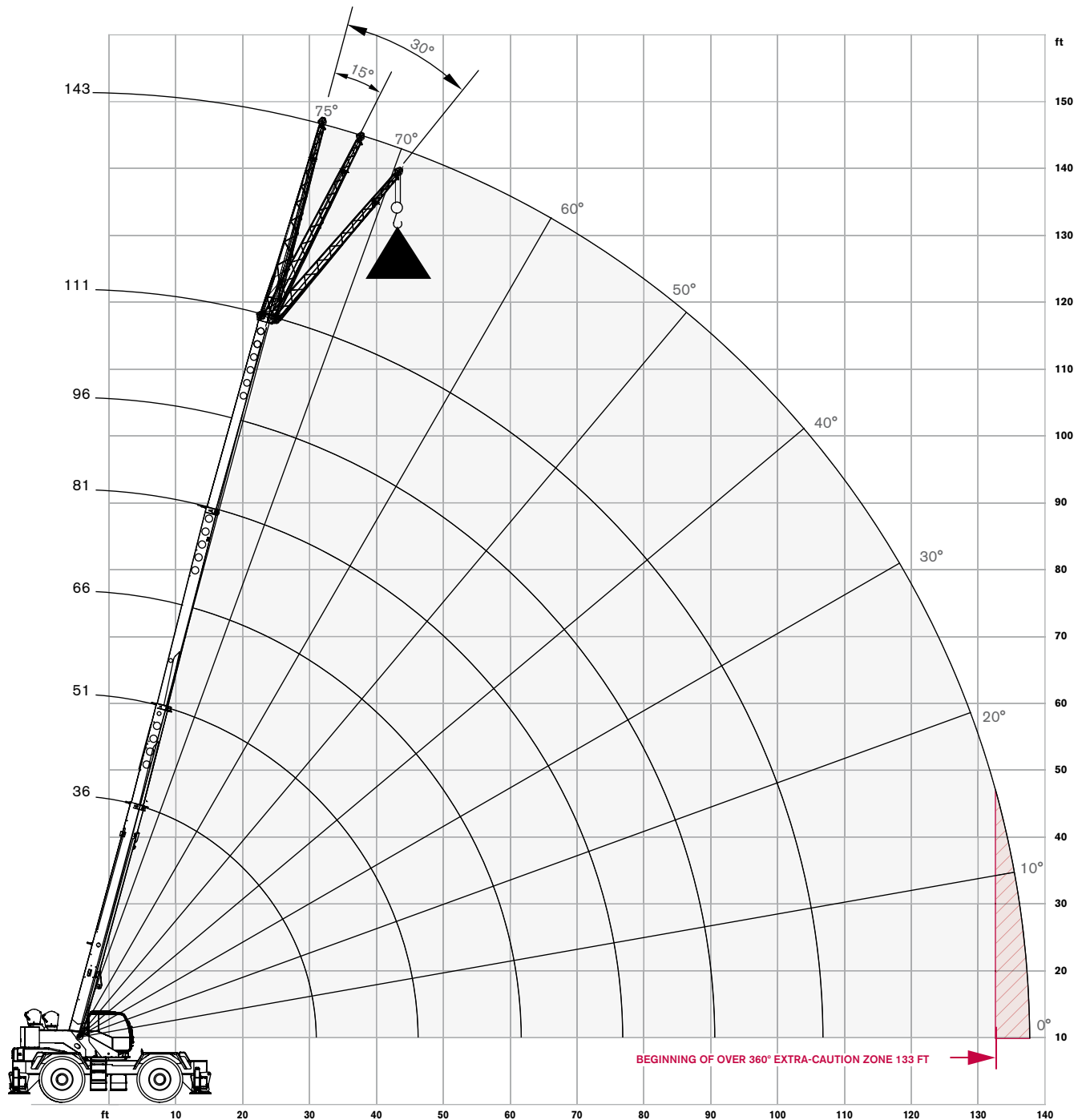
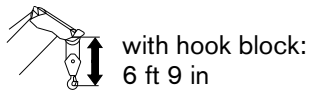
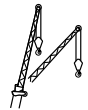
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RANGE DIAGRAM - MAIN BOOM


With Jib, 33 ft offset

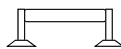
RT 670









LOAD CHART- MAIN BOOM

RT 670**With Jib, 33 ft offset**

 14,200 lbs
counterweight


 Outriggers extended
24 ft (100%)


 360 degree
rotation
Standard ASME
B30.5

| 33 ft Offsettable Jib | | | | | |
|---|--------|---|-------|---|-------|
| 0° Offset | | 15° Offset | | 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.

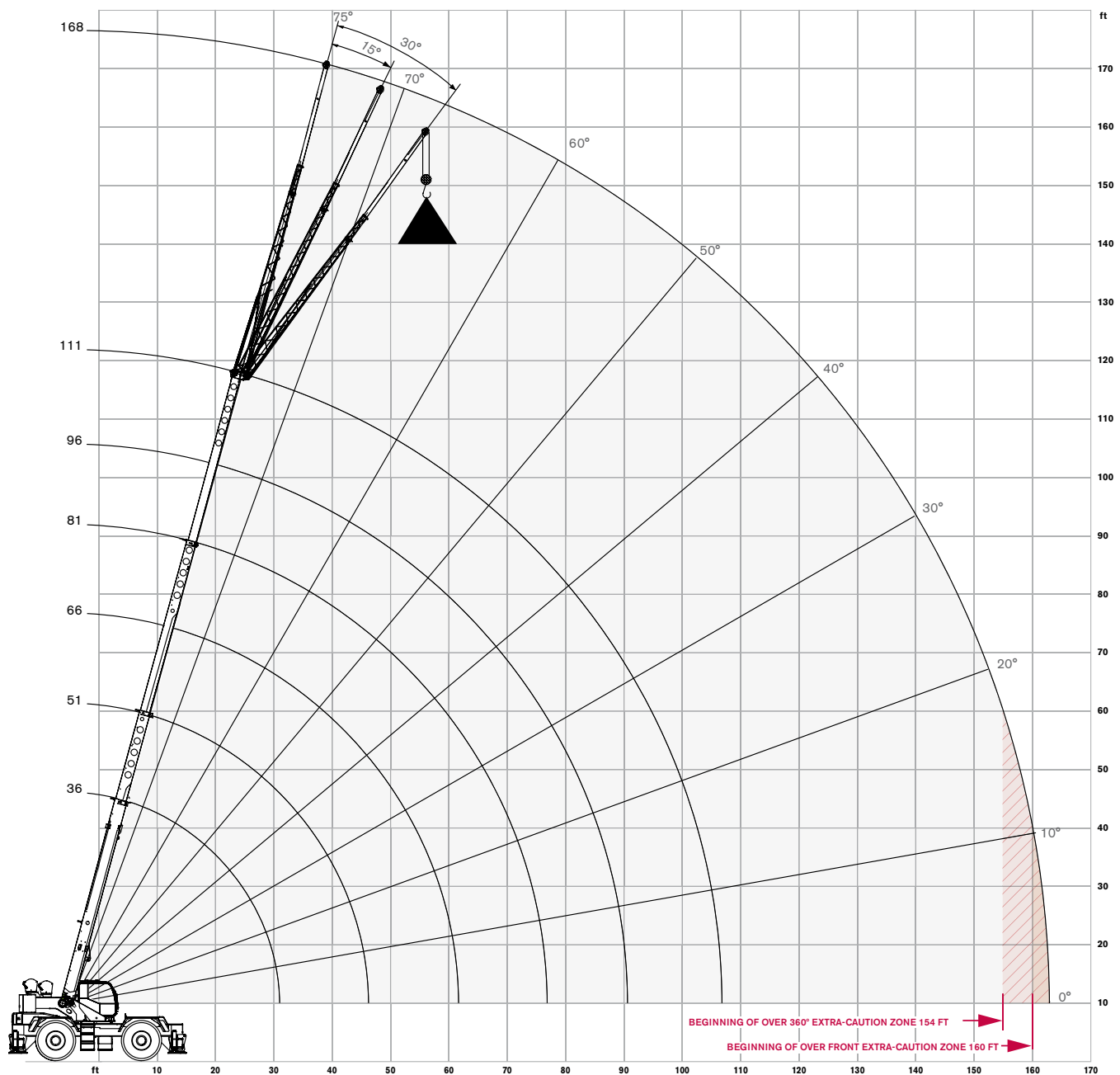
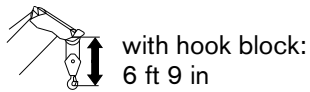
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RANGE DIAGRAM - MAIN BOOM

With Jib, 57 ft offset

RT 670








LOAD CHART- MAIN BOOM

RT 670




With Jib, 57 ft offset

 14,200 lbs
counterweight

 Outriggers extended
24 ft (100%)

 360 degree
rotation

Standard ASME
B30.5

| 57 ft Offsettable Jib | | | | | |
|--|-------|--|-------|--|-------|
| 0° Offset | | 15° Offset | | 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.

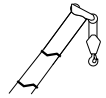
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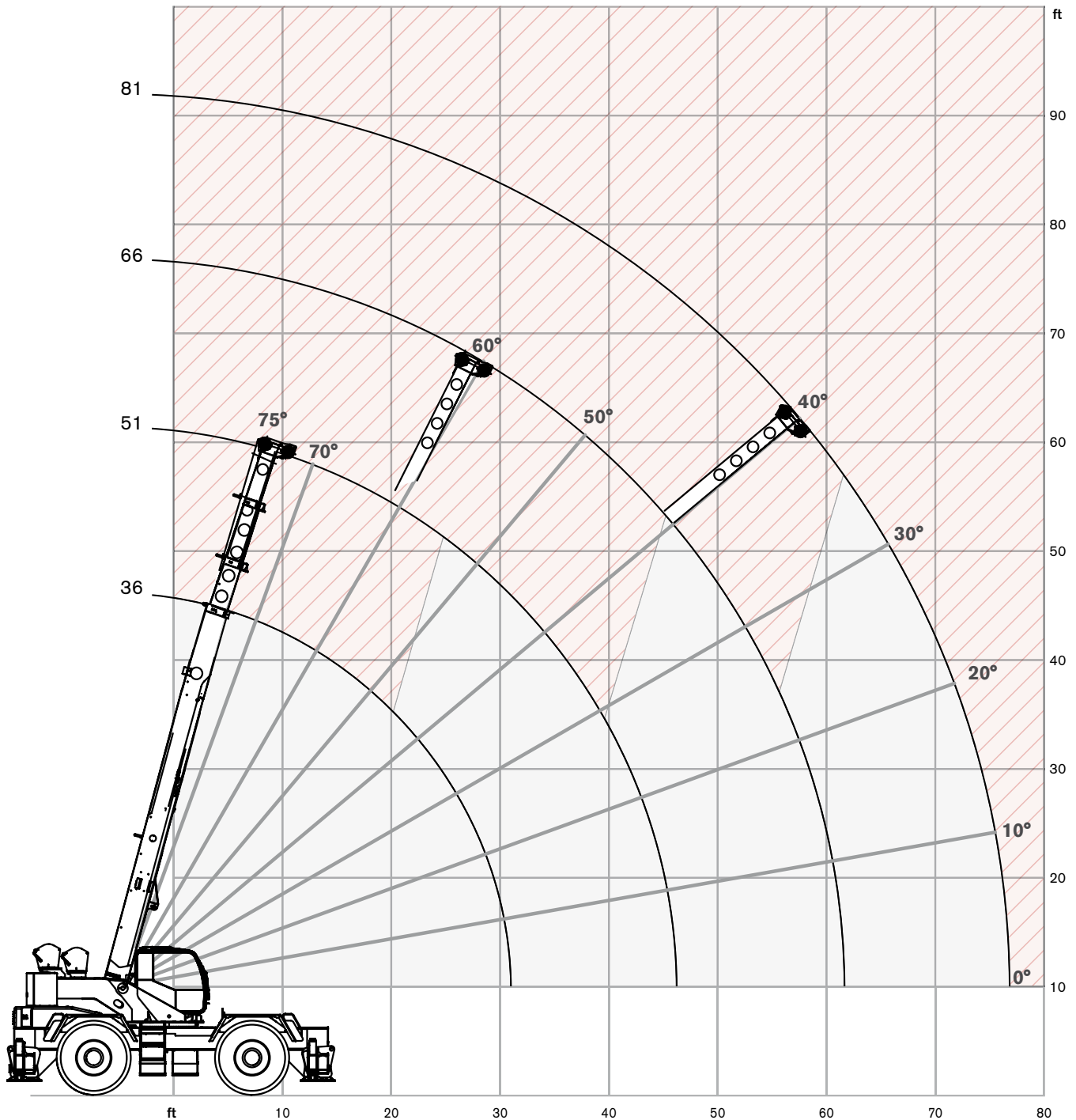
RANGE DIAGRAM - MAIN BOOM

RT 670

On Tires



with hook block:
6 ft 9 in




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LOAD CHART- MAIN BOOM

RT 670

On Tires

 14,200 lbs
counterweight

 360 degree
rotation

 On tires
29.5 X 25-28PR

Standard ASME
B30.5

| Boom | | Travel Speed Boom straight over front | | |
|--------|--------|--|--------|---------|
| 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.






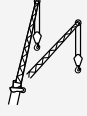


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


TECHNICAL DESCRIPTION

RT 670

Boom

| Standard configuration: | | |
|---|---|---------------------------------------|
|  | 4 sections hydraulic actuated boom | |
|  | Full power mechanically synchronized | |
|  | Min. / Max. | 36 ft / 111 ft |
|  | Boom elevation angle range (min. / max.) | -4° / 76° |
| Optional configuration: | | |
|  | Single sheave | |
|  | One section, side stowable, with pull out insert Angular offsets | 33 ft / 57 ft 0, 15 and 30 degrees |
|  | With one section jib (max.) | 146 ft |
|  | With two section jib (max.) | 170 ft |








Hoist, Rope and Hook

| Standard configuration: | | |
|---|--|--|
|  | 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 |
|  | Max. line pull; 1st layer low-range Max. line pull permissible | 18,450 lb 13,800 lb |






TECHNICAL DESCRIPTION

RT 670

| Optional configuration: | | |
|---|--|--|
|  | 5 sheaves 5 sheaves | 60 USt 75 USt |
|  | 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 |
|  | Minimum breaking strength Permissible line pull | 69,000 lbs 13,800 lbs |






Superstructure

| Standard configuration: | | |
|---|---|-----------------|
|  | Non stop Maximum rotation speed without load | 360° 1.9 rpm |
|  | Hydraulic motor Planetary reducer 360° house lock | |
|  | Manually actuated by foot pedal | |




TECHNICAL DESCRIPTION

RT 670

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



| Standard configuration: | | |
|---|--|--|
|  | Sliding door on the left side | |
| | Sliding window on left side and rear | |
| | Hinged, tinted all glass skylight | |
| | Six way adjustable and heated seat | |
| | Work lights | |
| | Signal lights indicating RCL-Load | |
| | 18° tilttable cab | |
| | | |
|  | Armrest mounted dual axis electro-proportional joysticks | |
| | Joystick controls for hoist, hoist rotation indicator, slewing, boom elevation, boom telescoping | |
| | Foot controls for swing brake, service brake, and engine throttle | |
| | Steering wheel column with gear selector on the left and directional light selector on the right | |
| | | |
|  | Graphic interface for rated capacity indicator | |
| | | |
|  | Standard HVAC, flameless heat | |
| | | |
| Optional configuration: | | |
|  | Diesel power heater | |
| | Strobe light | |
| | Rotating beacon | |

Carrier, Engine, Drive-line and Hydraulic system


| Standard configuration: | | |
|---|---------------------------------------|-------------------------|
|  | Hydraulic, independent extension: | |
| | Diameter of outrigger pads | 24 in |
| | Area of outrigger pads | 452 in ² |
| | | |
|  | Cummins QSB6.7 6 cylinders - Tier 4F | |
| | Rated power | 225 hp @ 2,200 rpm |
| | Maximum gross torque | 700 ft·lb @ 1,500 rpm |
| | Intake: turbocharger with intercooler | |
| | Fuel type | Ultra low sulfur diesel |
| | Fuel tank capacity | 50 gallons |
| | | |
| Optional configuration: | | |
|  | Cummins QSB6.7 6 cylinders - Tier 3 | |
| | Rated power | 220 hp @ 2,200 rpm |
| | Maximum gross torque | 700 ft·lb @ 1,500 rpm |
| | Intake: turbocharger with intercooler | |
| | Fuel type | Diesel |
| | Fuel tank capacity | 50 gallons |

TECHNICAL DESCRIPTION


RT 670

| | | |
|---|---|--|
|  | <div>6 x 6 powershift transmission with torque converter</div> <div>Selectable 4WD (Four-Wheel Drive)</div> <div>Rigid mounted front axle</div> <div>Oscillating rear axle</div> <div>Differential lock on front and rear axles</div> <div>Rear axle oscillation lock - manual or automatic actuation</div> <div>Air-over-hydraulic disc brakes</div> <div>Front axle parking brake</div> <div>Hydraulic oil cooler</div> | |
|  | <div>Hydraulic power steering</div> <div>Front wheel steering</div> <div>Four wheel steering concentric</div> <div>Four wheel steering crab</div> | |
| <div>HYDR</div> | <div>Hydraulic Pumps:</div> <div><div>Tandem pumps:</div><div>Boom lift / Telescope</div><div>Power steering / Outriggers and swing</div></div> <div><div>Single pump:</div><div>Main and auxiliary hoist pump</div></div> | <div>37.3 gal/min @ 3,500 psi</div> <div>18.7 gal/min @ 3,500 psi</div> <div>52.7gal/min @ 4,500 psi</div> |
| | <div>Hydraulic oil reservoir capacity</div> <div>Hydraulic oil suction filter</div> <div>Hydraulic oil return filter</div> | <div>116 gallons</div> <div>250 microns</div> <div>5 microns</div> |

Vehicle performance

| | | |
|---|---|-----------------------------------|
| | <div>Standard configuration:</div> | |
|  | <div>Max. in 1st gear</div> <div>Max. in 6th gear</div> | <div>127.6%</div> <div>5.9%</div> |
|  | <div>Max. (6th gear)</div> | <div>23.4 mph</div> |

Tires

| | | |
|---|---|---------------------------|
| | <div>Standard configuration:</div> | |
|  | <div>Wide tread - Earth mover pattern</div> | <div>29.5 X 25-28PR</div> |



RT 670

Effective Date: September 2014. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries.

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Brochure Reference: TC-DS-I-E-RT670-09/14



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