



## ROUGH TERRAIN CRANE RT 780

### DATASHEET - IMPERIAL



# RT 780

#### Features:

- ▶ Rated capacity:  
80 ton @ 10 ft working radius
- ▶ Maximum boom length:  
126 ft
- ▶ Maximum tip height:  
190 ft

## WORKS FOR YOU.™



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**RT 780**

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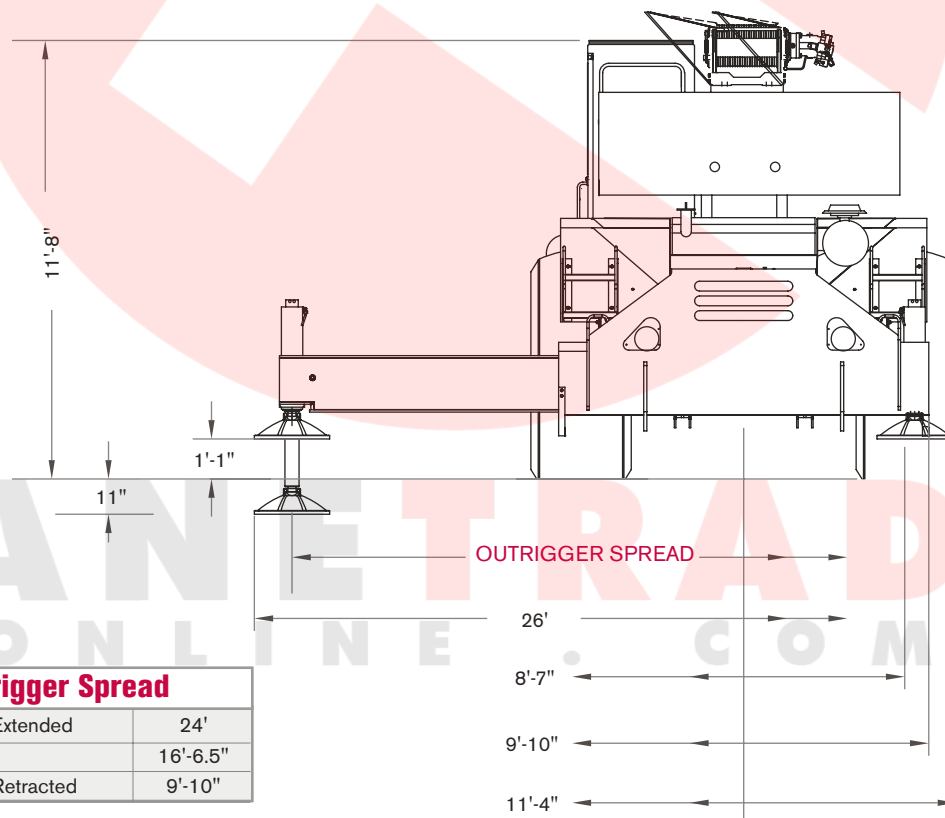
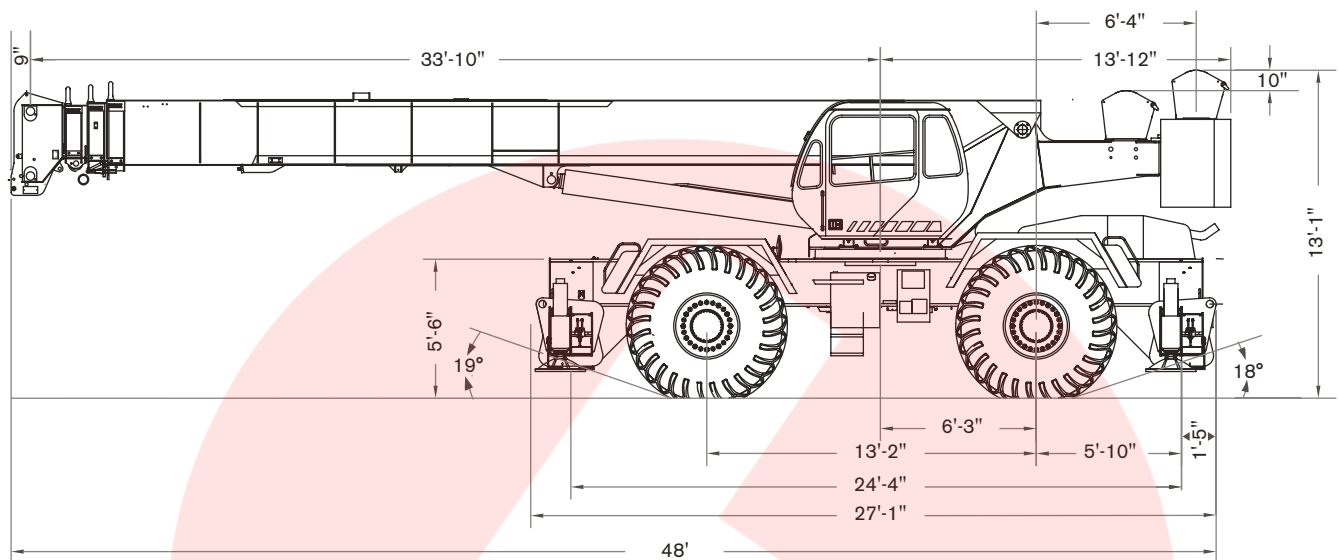
# KEY

**RT 780**

|                                                                                     |                                                         |                                                                                     |                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|
|    | 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 780



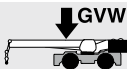
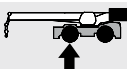
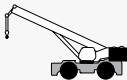
| Outtrigger Spread |          |
|-------------------|----------|
| Fully Extended    | 24'      |
| Half              | 16'-6.5" |
| Fully Retracted   | 9'-10"   |



# CRANE WEIGHTS

RT 780

## Approximate Weights

|                                                                                     |                                    |  |  |  |
|-------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | STD                                | 91,216 lb                                                                         | 47,047 lb                                                                           | 44,169 lb                                                                           |
| Add / Subtract for main optional equipment                                          |                                    |                                                                                   |                                                                                     |                                                                                     |
|    | 33 ft to 57 ft swing on jib stowed | + 2,170 lb                                                                        | + 3,992 lb                                                                          | - 1,822 lb                                                                          |
|    | Auxiliary boom head                | + 125 lb                                                                          | + 406 lb                                                                            | - 281 lb                                                                            |
|    | Auxiliary hoist*                   | + 134 lb                                                                          | - 35 lb                                                                             | + 159 lb                                                                            |
|   | 5 sheaves, 75T                     | + 1,608 lb                                                                        | + 3,447 lb                                                                          | - 1,839 lb                                                                          |
|  | 5 sheaves, 60T                     | + 1,204 lb                                                                        | + 2,581 lb                                                                          | - 1,377 lb                                                                          |

NOTE: Values are subject to 2% variation

\* Weight includes rope

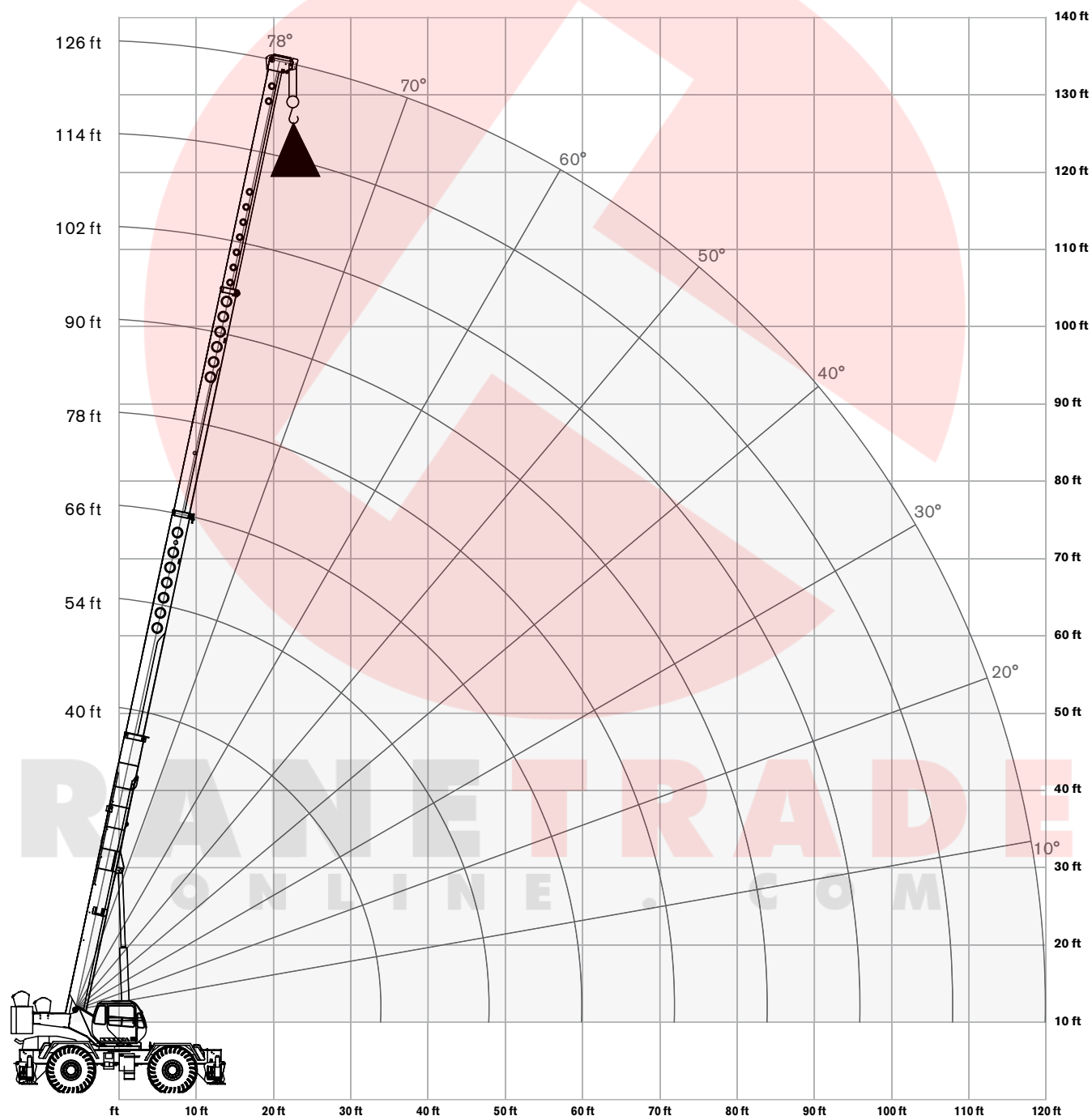
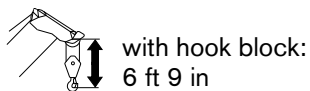
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# RANGE DIAGRAM - MAIN BOOM

**RT 780**

**Outriggers Fully Extended (100%)**



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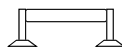


# LOAD CHART- MAIN BOOM

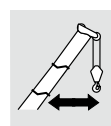
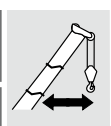
**RT 780**

## Outriggers Fully Extended (100%)

 15,200 lbs  
counterweight

 Outriggers extended  
24 ft (100%)

 360 degree  
rotation
Standard ASME  
B30.5

|  | Boom Length |         |        |        |        |        |        |        |  |
|-----------------------------------------------------------------------------------|-------------|---------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
|                                                                                   | 40 ft       | 54 ft   | 66 ft  | 78 ft  | 90 ft  | 102 ft | 114 ft | 126 ft |                                                                                     |
| ft                                                                                | lb          | lb      | lb     | lb     | lb     | lb     | lb     | lb     | ft                                                                                  |
| 10                                                                                | 160,000     | 102,500 |        |        |        |        |        |        | 10                                                                                  |
| 12                                                                                | 125,600     | 102,500 |        |        |        |        |        |        | 12                                                                                  |
| 15                                                                                | 108,800     | 100,500 | 80,600 |        |        |        |        |        | 15                                                                                  |
| 20                                                                                | 84,700      | 85,300  | 71,900 | 62,200 | 56,200 |        |        |        | 20                                                                                  |
| 25                                                                                | 65,600      | 66,700  | 64,800 | 55,700 | 48,000 | 41,900 |        |        | 25                                                                                  |
| 30                                                                                | 49,200      | 50,500  | 51,000 | 49,700 | 41,700 | 36,400 | 31,500 |        | 30                                                                                  |
| 35                                                                                |             | 37,700  | 38,200 | 38,500 | 36,600 | 32,100 | 29,500 | 24,700 | 35                                                                                  |
| 40                                                                                |             | 29,400  | 29,900 | 30,200 | 30,400 | 28,600 | 26,200 | 24,600 | 40                                                                                  |
| 45                                                                                |             | 23,500  | 24,100 | 24,400 | 24,600 | 24,700 | 23,500 | 22,100 | 45                                                                                  |
| 50                                                                                |             |         | 19,800 | 20,200 | 20,300 | 20,500 | 20,600 | 20,000 | 50                                                                                  |
| 55                                                                                |             |         | 16,400 | 16,900 | 17,100 | 17,200 | 17,300 | 17,400 | 55                                                                                  |
| 60                                                                                |             |         |        | 14,200 | 14,500 | 14,600 | 14,700 | 14,800 | 60                                                                                  |
| 65                                                                                |             |         |        | 12,100 | 12,300 | 12,500 | 12,600 | 12,700 | 65                                                                                  |
| 70                                                                                |             |         |        | 10,300 |        | 10,800 | 10,900 | 10,900 | 70                                                                                  |
| 75                                                                                |             |         |        |        |        | 9,200  | 9,400  | 9,400  | 75                                                                                  |
| 80                                                                                |             |         |        |        |        | 7,900  | 8,100  | 8,200  | 80                                                                                  |
| 85                                                                                |             |         |        |        |        | 6,800  | 6,900  | 7,100  | 85                                                                                  |
| 90                                                                                |             |         |        |        |        | 5,800  | 6,000  | 6,100  | 90                                                                                  |
| 95                                                                                |             |         |        |        |        | 4,900  | 5,100  | 5,200  | 95                                                                                  |
| 100                                                                               |             |         |        |        |        |        | 4,300  | 4,400  | 100                                                                                 |
| 105                                                                               |             |         |        |        |        |        | 3,600  | 3,700  | 105                                                                                 |
| 110                                                                               |             |         |        |        |        |        |        | 3,100  | 110                                                                                 |
| 115                                                                               |             |         |        |        |        |        |        | 2,500  | 115                                                                                 |

## 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.

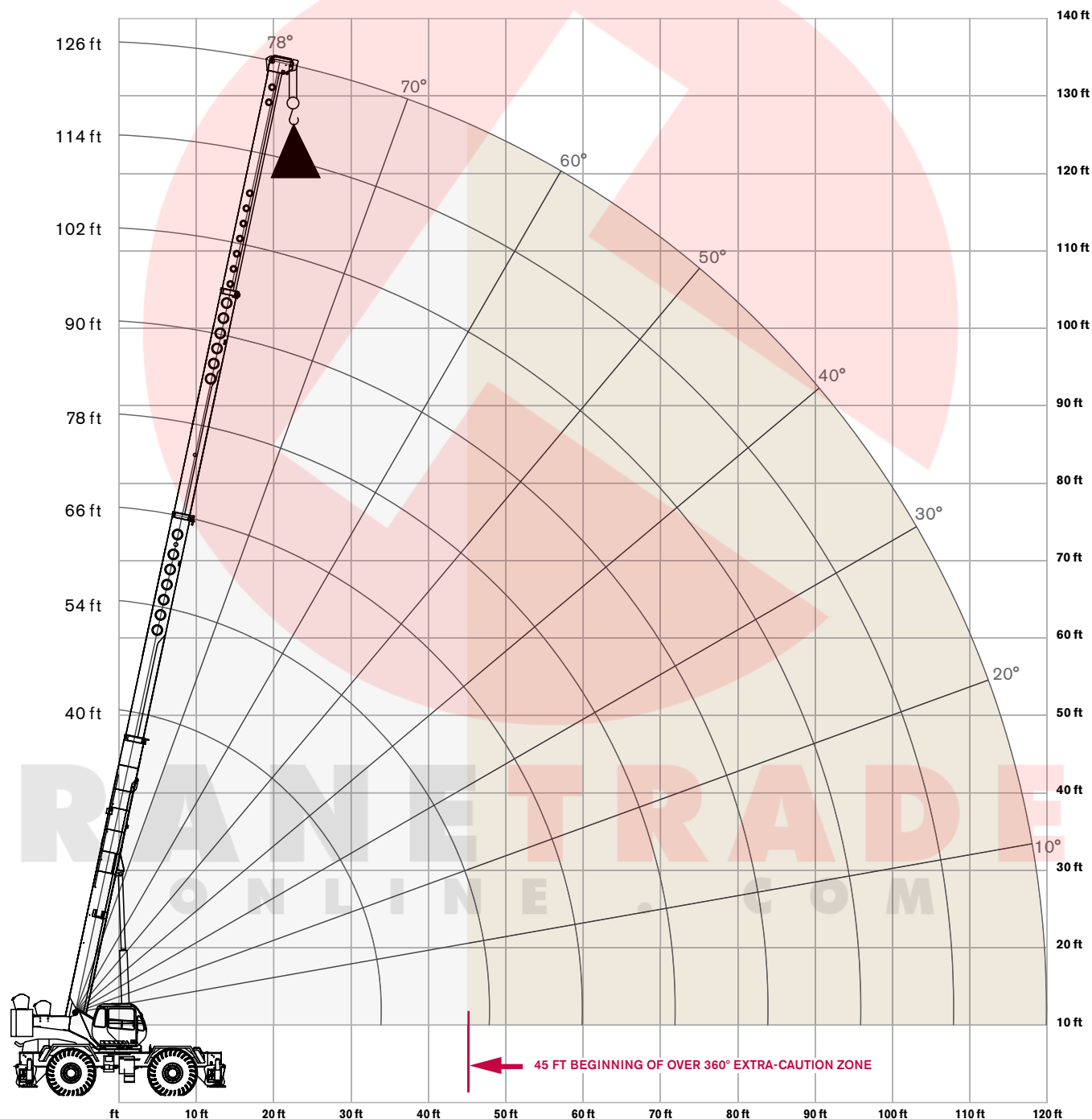
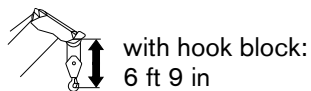
Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.



# RANGE DIAGRAM - MAIN BOOM

**RT 780**

**Outriggers Fully Retracted (0%)**

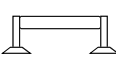


# LOAD CHART- MAIN BOOM

## Outriggers Fully Retracted (0%)

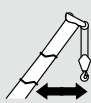
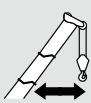
RT 780

 15,200 lbs counterweight

 Outriggers retracted 9 ft 10 in (0%)

 360 degree rotation

Standard ASME B30.5

|  | Boom Length |        |        |        |        |        |        |        |  |
|-----------------------------------------------------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
|                                                                                   | 40 ft       | 54 ft  | 66 ft  | 78 ft  | 90 ft  | 102 ft | 114 ft | 126 ft |                                                                                     |
| ft                                                                                | lb          | lb     | lb     | lb     | lb     | lb     | lb     | lb     | ft                                                                                  |
| 10                                                                                | 84,500      | 85,600 |        |        |        |        |        |        | 10                                                                                  |
| 12                                                                                | 59,300      | 60,300 |        |        |        |        |        |        | 12                                                                                  |
| 15                                                                                | 39,300      | 40,400 | 40,800 |        |        |        |        |        | 15                                                                                  |
| 20                                                                                | 23,200      | 24,300 | 24,800 | 25,000 | 25,200 |        |        |        | 20                                                                                  |
| 25                                                                                | 14,900      | 16,000 | 16,500 | 16,800 | 17,000 | 17,000 |        |        | 25                                                                                  |
| 30                                                                                | 9,800       | 10,900 | 11,400 | 11,800 | 12,000 | 12,000 | 12,100 |        | 30                                                                                  |
| 35                                                                                |             | 7,500  | 8,000  | 8,400  | 8,600  | 8,600  | 8,800  | 8,900  | 35                                                                                  |
| 40                                                                                |             | 5,000  | 5,600  | 5,900  | 6,100  | 6,100  | 6,300  | 6,500  | 40                                                                                  |
| 45                                                                                |             | 3,200  | 3,700  | 4,000  | 4,300  | 4,300  | 4,500  | 4,700  | 45                                                                                  |
| 50                                                                                |             |        |        |        |        |        | 3,000  | 3,300  | 50                                                                                  |

C R A N E T R A D E R  
O N L I N E . C O M

**Notes to lifting capacity**

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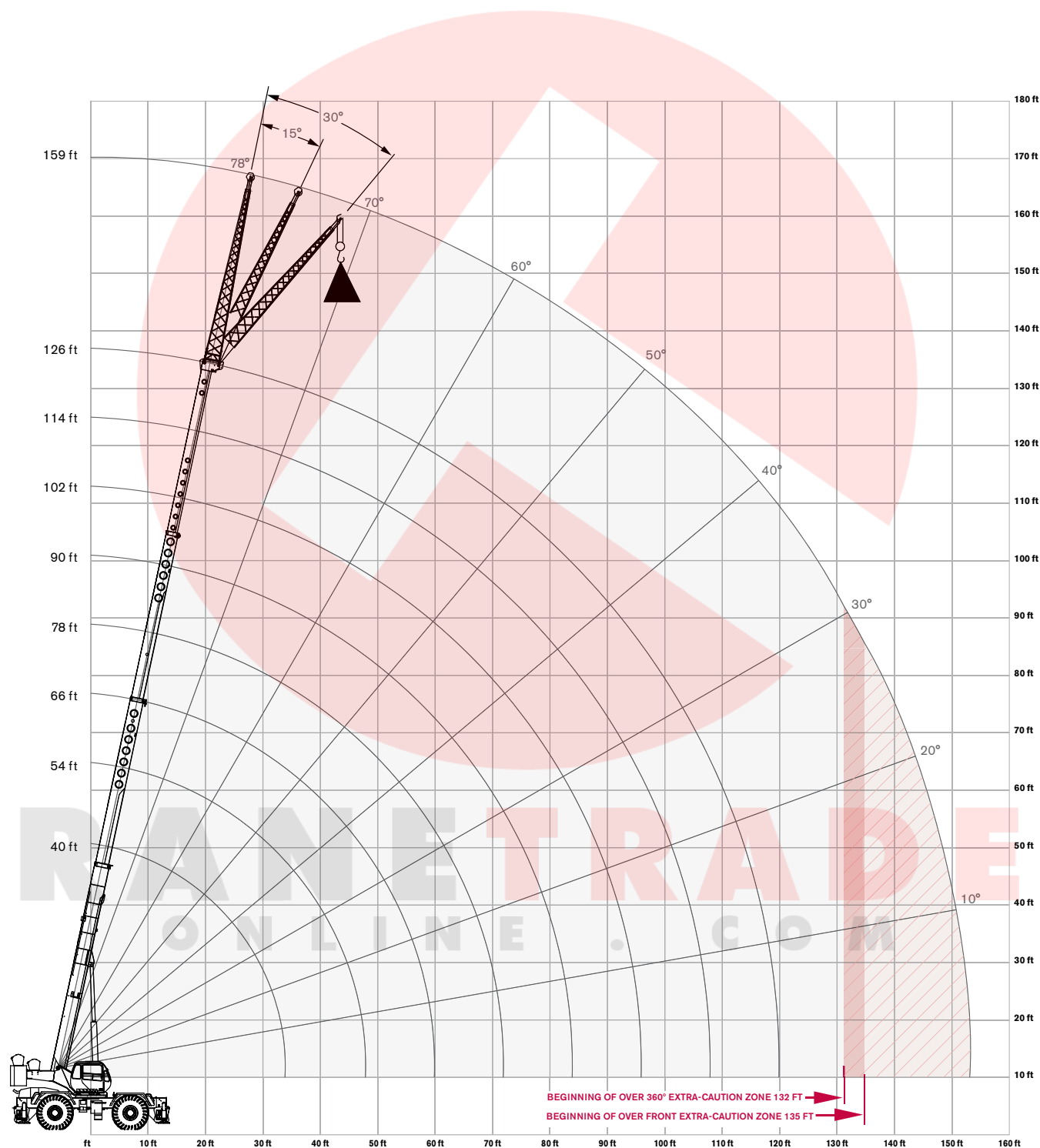
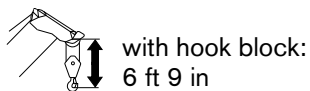
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# RANGE DIAGRAM - MAIN BOOM

RT 780

With Jib, 33 ft offset



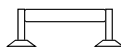
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# LOAD CHART- MAIN BOOM

**RT 780****With Jib, 33 ft offset**

 15,200 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 | 50                                                                                            | 8,500 | 57                                                                                              | 6,400 |
| 47                                                                                            | 12,000 | 56                                                                                            | 8,100 | 62                                                                                              | 6,200 |
| 52                                                                                            | 11,500 | 61                                                                                            | 7,800 | 67                                                                                              | 6,100 |
| 58                                                                                            | 10,900 | 67                                                                                            | 7,500 | 72                                                                                              | 5,900 |
| 66                                                                                            | 9,900  | 74                                                                                            | 7,100 | 79                                                                                              | 5,900 |
| 74                                                                                            | 9,200  | 81                                                                                            | 6,700 | 86                                                                                              | 5,600 |
| 81                                                                                            | 8,600  | 88                                                                                            | 6,400 | 93                                                                                              | 5,400 |
| 88                                                                                            | 7,300  | 95                                                                                            | 6,200 | 99                                                                                              | 5,300 |
| 97                                                                                            | 5,700  | 103                                                                                           | 5,200 | 107                                                                                             | 5,200 |
| 105                                                                                           | 4,500  | 111                                                                                           | 4,200 | 114                                                                                             | 4,300 |
| 113                                                                                           | 3,600  | 117                                                                                           | 3,400 | 120                                                                                             | 3,500 |
| 120                                                                                           | 2,900  | 124                                                                                           | 2,700 | 126                                                                                             | 2,800 |
| 127                                                                                           | 2,200  | 131                                                                                           | 2,000 | 132                                                                                             | 1,900 |
| 135                                                                                           | 1,600  | 138                                                                                           | 1,400 | 138                                                                                             | 1,100 |

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## 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.

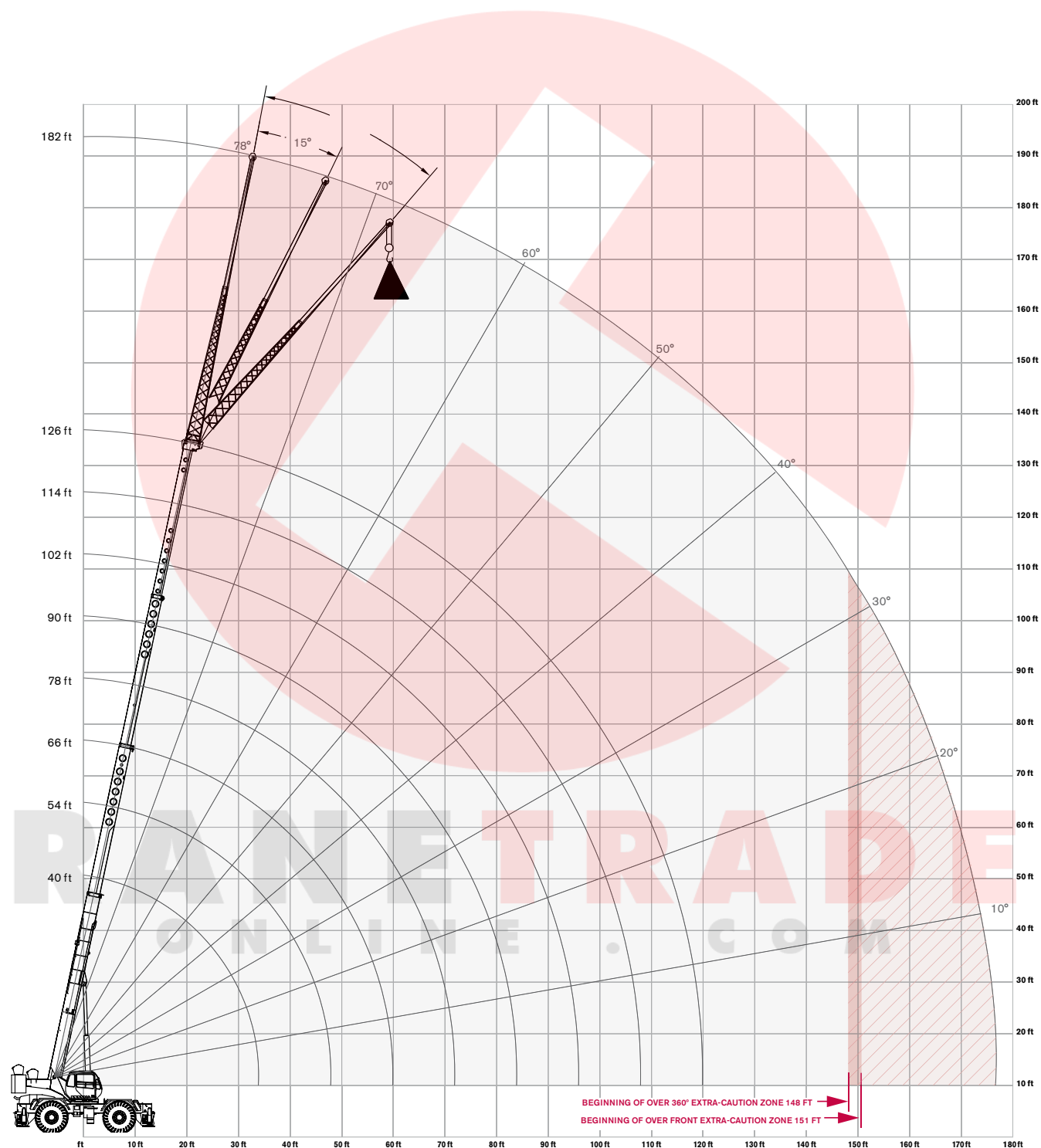
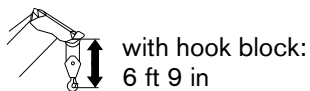
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# RANGE DIAGRAM - MAIN BOOM

**RT 780**

**With Jib, 57 ft offset**

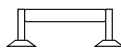




# LOAD CHART- MAIN BOOM

**RT 780****With Jib, 57 ft offset**

 15,200 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   |
| 48                                                                                            | 6,500 | 66                                                                                            | 4,500 | 75                                                                                              | 3,300 |
| 56                                                                                            | 6,400 | 72                                                                                            | 4,300 | 81                                                                                              | 3,200 |
| 63                                                                                            | 6,200 | 77                                                                                            | 4,100 | 87                                                                                              | 3,100 |
| 70                                                                                            | 6,000 | 83                                                                                            | 3,900 | 92                                                                                              | 3,000 |
| 80                                                                                            | 5,400 | 91                                                                                            | 3,700 | 100                                                                                             | 2,900 |
| 90                                                                                            | 4,900 | 99                                                                                            | 3,500 | 108                                                                                             | 2,800 |
| 98                                                                                            | 4,500 | 106                                                                                           | 3,300 | 115                                                                                             | 2,700 |
| 106                                                                                           | 4,200 | 114                                                                                           | 3,100 | 121                                                                                             | 2,600 |
| 116                                                                                           | 3,800 | 123                                                                                           | 2,900 | 129                                                                                             | 2,500 |
| 125                                                                                           | 3,500 | 132                                                                                           | 2,800 | 137                                                                                             | 2,500 |
| 133                                                                                           | 2,800 | 140                                                                                           | 2,600 | 143                                                                                             | 2,400 |
| 140                                                                                           | 2,200 | 147                                                                                           | 2,100 | 149                                                                                             | 2,000 |
| 148                                                                                           | 1,600 | 154                                                                                           | 1,500 | 155                                                                                             | 1,500 |
| 157                                                                                           | 1,000 | 161                                                                                           | 1,000 | 162                                                                                             | 1,000 |

# CRANETRADER

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## 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.

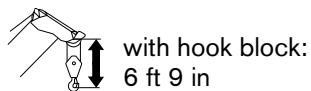
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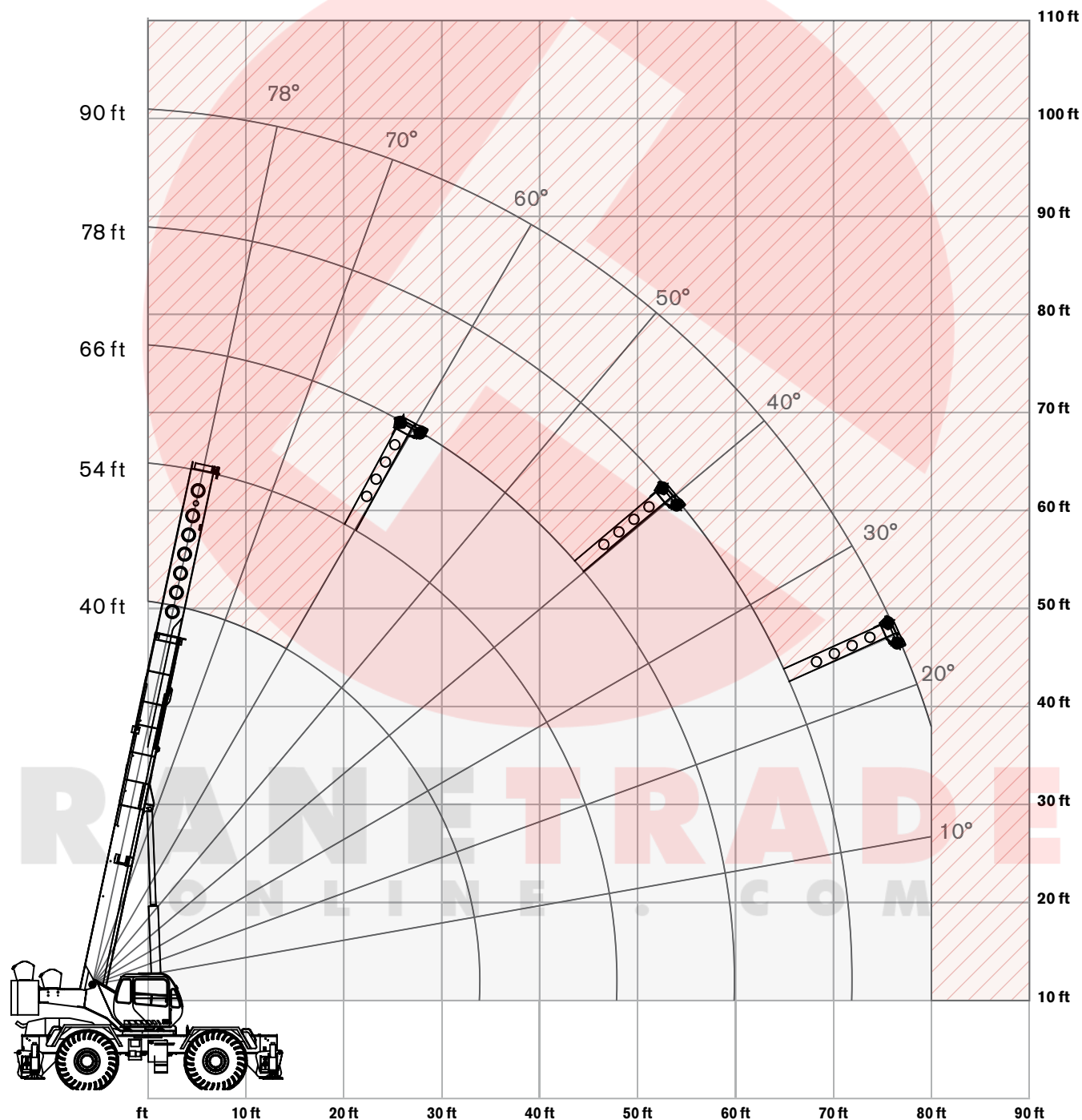
# RANGE DIAGRAM - MAIN BOOM

**RT 780**

**On Tires**



with hook block:  
6 ft 9 in





# LOAD CHART- MAIN BOOM

**RT 780**

**On Tires**

 15,200 lbs  
counterweight

 360 degree  
rotation

 On tires  
29.5 X 25-28PR

Standard ASME  
B30.5

| Boom   |        | Travel Speed<br>Boom straight over front |        |         |
|--------|--------|------------------------------------------|--------|---------|
| Radius | Length | 0 mph                                    | Creep  | 2.5 mph |
| ft     | ft     | lb                                       | lb     | lb      |
| 10     | 40     | 82,700                                   | 68,700 | 51,800  |
| 12     | 40     | 69,800                                   | 60,400 | 45,300  |
| 15     | 40     | 54,200                                   | 50,700 | 37,600  |
| 20     | 40     | 36,000                                   | 36,000 | 28,700  |
| 25     | 54     | 24,900                                   | 24,700 | 22,500  |
| 30     | 54     | 18,200                                   | 18,200 | 17,800  |
| 35     | 54     | 14,200                                   | 14,200 | 14,200  |
| 40     | 66     | 11,600                                   | 11,600 | 11,100  |
| 45     | 66     | 9,600                                    | 9,600  | 9,000   |
| 50     | 66     | 7,900                                    | 7,900  | 7,900   |
| 55     | 78     | 6,300                                    | 6,300  | 6,300   |
| 60     | 78     | 4,900                                    | 4,900  | 4,900   |
| 65     | 78     | 3,300                                    | 3,300  | 3,300   |
| 70     | 90     | 3,100                                    | 3,100  | 3,100   |
| 75     | 90     | 2,700                                    | 2,700  | 2,700   |
| 80     | 90     | 2,200                                    | 2,200  | 2,200   |

**CRANETRADER**  
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## 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 780

## Boom

| Standard configuration:                                                             |                                                                     |                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|
|    | 4 sections hydraulic actuated boom                                  |                                       |
|    | Full power mechanically synchronized                                |                                       |
|    | Min. / Max.                                                         | 40 ft / 126 ft                        |
|    | Boom elevation angle range (min. / max.)                            | -4° / 78°                             |
| Optional configuration:                                                             |                                                                     |                                       |
|    | Single sheave                                                       |                                       |
|   | One section, side stowable, with pull out insert<br>Angular offsets | 33 ft / 57 ft<br>0, 15 and 30 degrees |
|  | Jib with pull out extended                                          | 190 ft                                |

## Hoist, Rope and Hook

| Standard configuration:                                                             |                                                                                                                              |                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
|  | Grooved drum<br>Storage capacity                                                                                             | 561 ft                                             |
|  | Two speed ratios<br>Without load in 5th layer (low range / high range)<br>Without load in 1st layer (low range / high range) | 275 ft/min / 489 ft/min<br>191 ft/min / 341 ft/min |
|  | 6 x 19 IWRC XIPS, right regular lay, preformed                                                                               |                                                    |
|  |                                                                                                                              | 3/4 in                                             |
|  |                                                                                                                              | 600 ft                                             |
|  | Max. line pull; 1st layer low-range<br>Max. line pull permissible                                                            | 18,450 lb<br>13,800 lb                             |



# TECHNICAL DESCRIPTION

**RT 780**

| Optional configuration: |                                                    |                          |
|-------------------------|----------------------------------------------------|--------------------------|
|                         | 5 sheaves<br>5 sheaves                             | 60 ton<br>80 ton         |
|                         | Grooved drum<br>Storage capacity                   | 591 ft                   |
|                         | Without load in 5th layer (maximum)                | 489 ft/min               |
|                         | Rotation resistant compacted strand 34X7           |                          |
|                         |                                                    | 3/4 in                   |
|                         |                                                    | 600 ft                   |
|                         | Minimum breaking strength<br>Permissible line pull | 69,000 lbs<br>13,800 lbs |

## Superstructure

| Standard configuration: |                                                    |                 |
|-------------------------|----------------------------------------------------|-----------------|
|                         | Non stop<br>Maximum rotation speed without load    | 360°<br>2.2 rpm |
|                         | Hydraulic motor<br>Planetary reducer               |                 |
|                         | Manually actuated by foot pedal<br>360° house lock |                 |

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

| Standard configuration: |                                                                                                                                                                                                                    |  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                         | Sliding door<br>Hinged, tinted all glass skylight<br>Six way adjustable seat                                                                                                                                       |  |
|                         | Armrest mounted dual axis electro-proportional joysticks<br>Steering wheel column with gear selector on the left and directional light selector on the right<br>Dashboard mounted switches for outrigger operation |  |
|                         | Graphic interface for load indicator                                                                                                                                                                               |  |



# TECHNICAL DESCRIPTION

RT 780

## 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 24 in  
Area of outrigger pads 452 in<sup>2</sup>



Cummins QSB6.7 6 cylinders  
Rated power 275 hp @ 2500 rpm  
Maximum gross torque 750 ft-lb @ 1,500 rpm  
Intake: turbocharger with intercooler  
Fuel type  
Diesel  
Fuel tank capacity 80 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 57.8 gal/min @ 4,500 psi  
Power steering / Outriggers and swing 42.1 gal/min @ 4,500 psi  
**Single pump:**  
Main and auxiliary hoist pump 52.7 gal/min @ 4,500 psi

Hydraulic oil reservoir capacity 178 gallons  
Hydraulic oil suction filter 250 microns  
Hydraulic oil return filter 5 microns



**TEREX**<sup>®</sup>



# TECHNICAL DESCRIPTION

RT 780

## Vehicle performance

| Standard configuration: |                              |        |
|-------------------------|------------------------------|--------|
|                         | Max. in 1 <sup>st</sup> gear | 98.9%  |
|                         | Max. in 6 <sup>th</sup> gear | 3%     |
| <hr/>                   |                              |        |
|                         | Max. (6 <sup>th</sup> gear)  | 25 mph |

## Tires

| Standard configuration: |                                  |                |
|-------------------------|----------------------------------|----------------|
|                         | Wide tread - Earth mover pattern | 29.5 X 25-28PR |



**RT 780**



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