



Crane Works, L.P.
1-877-MAX-LIFT

Lifting your dreams

ROUGH TERRAIN CRANE

GR-1000XLL-4/GR-1000XL-4

100 TON (90.7 METRIC TON) CAPACITY

GR-800XL-4

80 TON (72.6 METRIC TON) CAPACITY

NEXT GENERATION



Photo: GR-1000XLL-4 (optional model)

Next-Generation RTs

In the making of products at Tadano, our number one priority is safety. These fully equipped cranes feature comfortable cab newly designed with an emphasis on stable operability for the operator. Using Tadano's vaunted state-of-the-art control technology, we have safely enhanced functionality while also optimizing operational efficiency and minimizing environmental impact. Backed by trust earned over many years, Tadano's high levels of safety, quality, and efficiency adapt to the changing needs of your business. Our next generation of cranes carries on this tradition. Experience new rough terrain cranes which are the pride of Tadano!



Photo: GR-1000XLL-4 (optional model)

Crane		Carrier	
Ultimate Boom for Rough Terrain Crane	03	Smooth Transmission	11
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This class-leading 167.3 ft (51 m) boom model expands the range of the work you can do.

GR-1000XLL-4

Crane capacity: 100 ton (90.7 metric ton)
 5-section boom: 167.3 ft (51.0 m)
 2-staged bi-fold jib: 33.2 ft / 58.1 ft (10.1 m / 17.7 m)
 Overall length: approx. 49' 9-7/8" (15,185 mm)
 Overall width: approx. 10' 10-1/2" (3,315 mm)
 Overall height: approx. 12' 5-13/16" (3,805 mm)



This 154.2 ft (47 m) boom standard model features enhanced safety functions.

GR-1000XL-4

Crane capacity: 100 ton (90.7 metric ton)
 5-section boom: 154.2 ft (47.0 m)
 2-staged bi-fold jib: 33.2 ft / 58.1 ft (10.1 m / 17.7 m)
 Overall length: approx. 47' 2" (14,375 mm)
 Overall width: approx. 10' 10-1/2" (3,315 mm)
 Overall height: approx. 12' 5-13/16" (3,805 mm)



This low-weight model dramatically increases convenience of transportation.

GR-800XL-4

Crane capacity: 80 ton (72.6 metric ton)
 5-section boom: 154.2 ft (47.0 m)
 2-staged bi-fold jib: 33.2 ft / 58.1 ft (10.1 m / 17.7 m)
 Overall length: approx. 47' 2" (14,375 mm)
 Overall width: approx. 10' 10-1/2" (3,315 mm)
 Overall height: approx. 12' 6-7/16" (3,820 mm)



Photo: Optional model



Ultimate Boom
for Rough Terrain Crane

Crane

The rounded boom is made of high tensile steel, which allows for decreased boom weight as well as increased boom strength. In addition, the high-performance AML-E ensures operational safety.

Longest boom and speedy operation

Max. boom length: **167.3 ft (51.0 m)** [GR-1000XLL-4]

154.2 ft (47.0 m) [GR-1000XL-4]

154.2 ft (47.0 m) [GR-800XL-4]

Telescoping mechanism: 2 hydraulic cylinders with wire ropes
Synchronization telescopic system makes the fast operation possible
2 telescoping modes selectable according to works.

New Super structure Frame

When developing the crane structure, importance is attached to the shape that is best suited for crane operation.

FEM analysis is used to create the design.

It is also important that the slewing structure be true to Tadano's original concept and be both rigid and compact while maintaining a desirable overall height.

*FEM: Finite Element Method



NEW DESIGN

Emergency Engine Stop Switch



Rubber Floor Mat



Outrigger Control Panel



Winch Drum Camera



Stowed position when transporting

Two-Roll Sunshade



Adjustable in any position

Longer Wiper Blade

Flat Windshield



Photo: GR-1000XLL-4 (optional model)

Improved Accessibility to Cab

Catwalk for Easy Access to Cab



New Designed Step * Left side



Cab tilt indicator and switch

Tiltable Cab



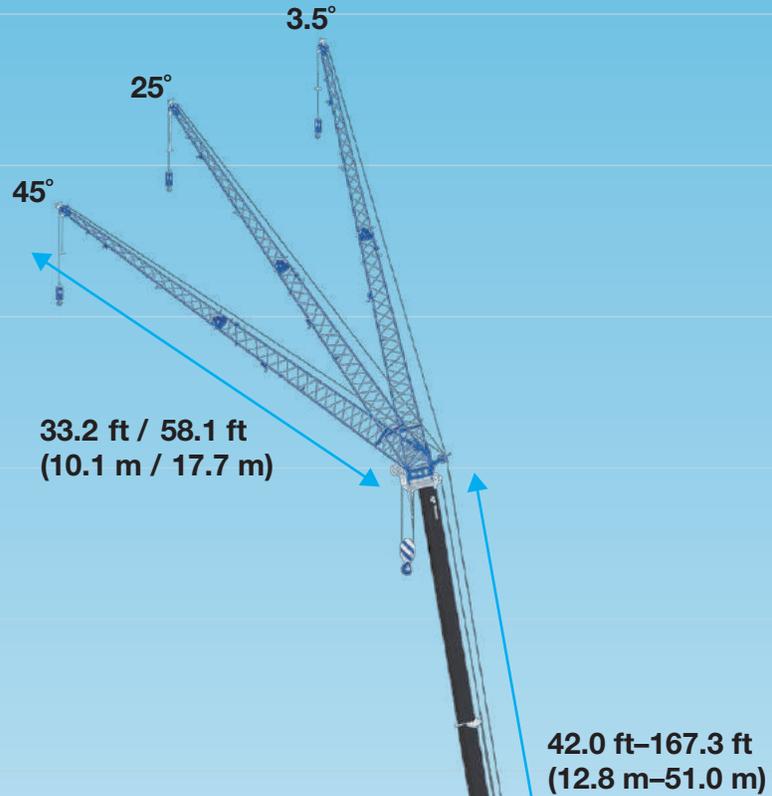
You can operate the crane comfortably by tilting the cab during high hoisting operations such as lifting with the jib. The cab tilting angle is between 0° and 20°.

Bi-Fold Jib

A two-stage, bi-fold lattice-type jib can be offset at 3.5°, 25°, and 45° to enable the crane to carry out jobs that require extra reaching ability.

Assist Cylinder for Jib

When mounting and stowing the jib, the assist hydraulic cylinders are used resulting in increased work efficiency and safety.



Two Telescoping Modes 1 & 2

The operator has enhanced capabilities with two boom telescoping options whichever suits the lift needs.



Mode 1

Mode 1 is extension of 2nd section only. Then follows the synchronized extension of 3rd, 4th and 5th sections.



Mode 2

Mode 2 is synchronized extension of 3rd, 4th and 5th sections. Then 2nd section extends independently.

GR-1000XLL-4

Crane capacity: 100 ton (90.7 metric ton)

5-section boom: 167.3 ft (51.0 m)

2-staged bi-fold jib:

33.2 ft / 58.1 ft (10.1 m / 17.7 m)

Maximum lifting height:

166.0 ft (50.6 m) [Boom]

224.1 ft (68.3 m) [Jib]

Maximum load radius:

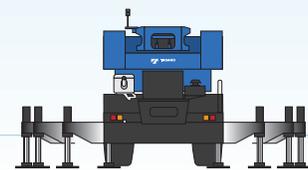
155.0 ft (47.2 m) [Boom]

190.0 ft (57.9 m) [Jib]

Two Winches with Cable Follower

Both the main winch and the auxiliary winch have powerful line pull and operate at high speeds thus enhancing work efficiency.

*Maximum permissible line pull may be affected by wire rope strength.



Minimum extension 8' 10-1/4" (2.7 m)

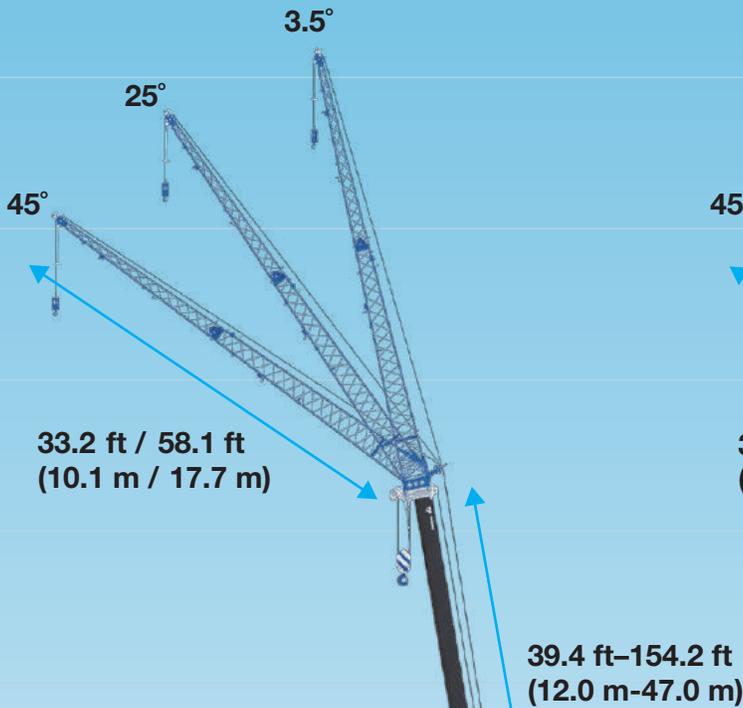
Middle extension 18' 1/2" (5.5 m)

Middle extension 21' 11-3/4" (6.7 m)

Maximum extension 23' 11-3/8" (7.3 m)

80.5°



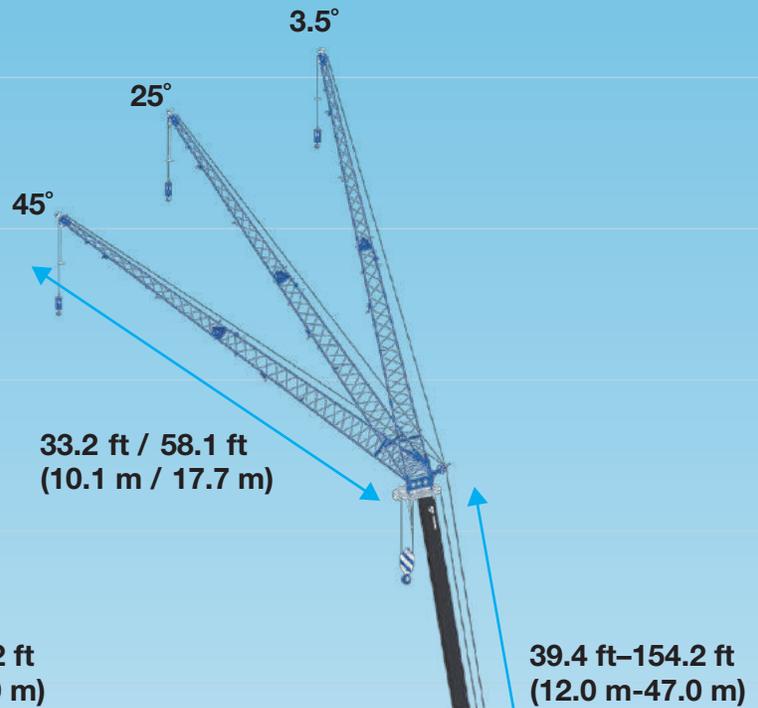


GR-1000XL-4

Crane capacity: 100 ton (90.7 metric ton)
 5-section boom: 154.2 ft (47.0 m)
 2-staged bi-fold jib:
 33.2 ft / 58.1 ft (10.1 m / 17.7 m)

Maximum lifting height:
 154.5 ft (47.1 m) [Boom]
 211.3 ft (64.4 m) [Jib]

Maximum load radius:
 145.0 ft (44.2 m) [Boom]
 180.0 ft (54.6 m) [Jib]

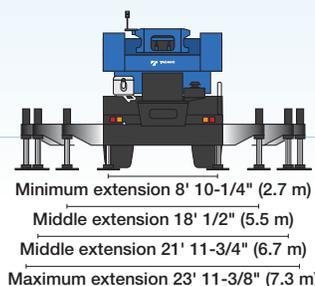
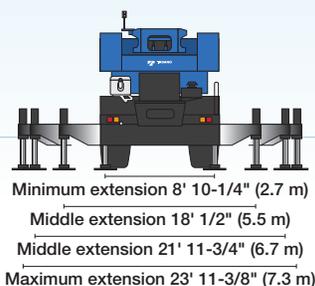


GR-800XL-4

Crane capacity: 80 ton (72.6 metric ton)
 5-section boom: 154.2 ft (47.0 m)
 2-staged bi-fold jib:
 33.2 ft / 58.1 ft (10.1 m / 17.7 m)

Maximum lifting height:
 154.5 ft (47.1 m) [Boom]
 211.3 ft (64.4 m) [Jib]

Maximum load radius:
 145.0 ft (44.2 m) [Boom]
 160.0 ft (48.8 m) [Jib]



Optimally-Designed Cab

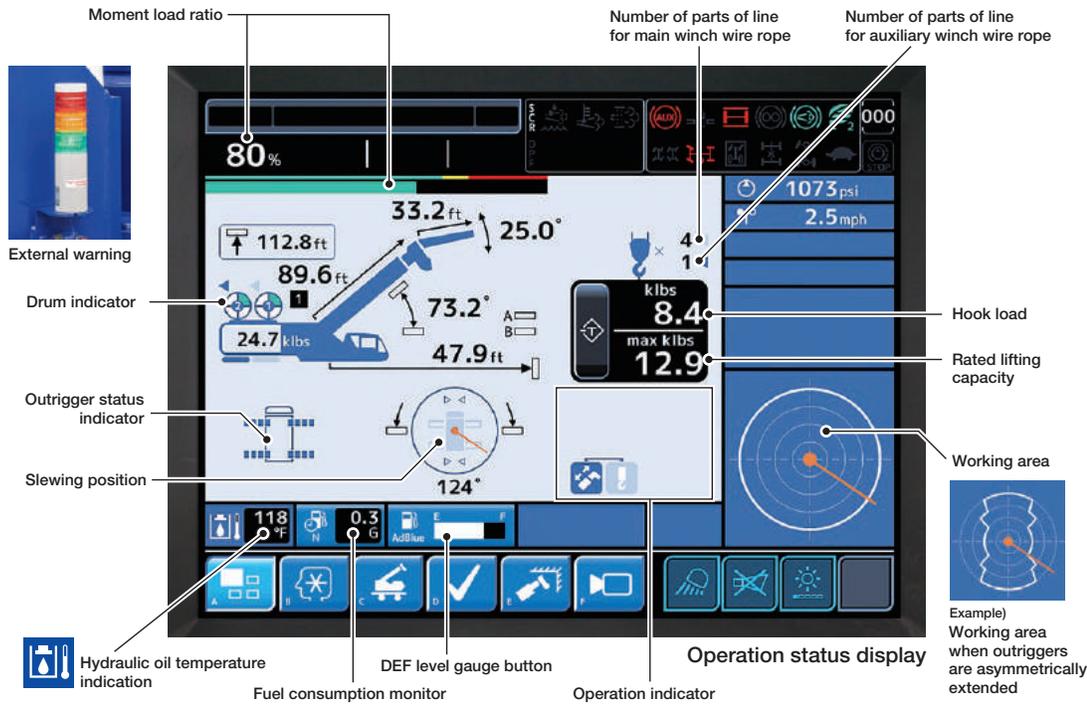
Crane cab and equipment designed for safety and operational efficiency.



Load Moment Indicator [AML-E]

Large Multi-Function Display

The 10.4 inch color touch panel consolidates operation information and settings for increased work efficiency and comfort. The touch panel is pressure sensitive to handle gloved operation.



Winch drum monitoring camera



Operation status



working area setting

Example) Working area when outriggers are asymmetrically extended

Seat Adjustment

Multiple seat adjustment positions for ease of operation.

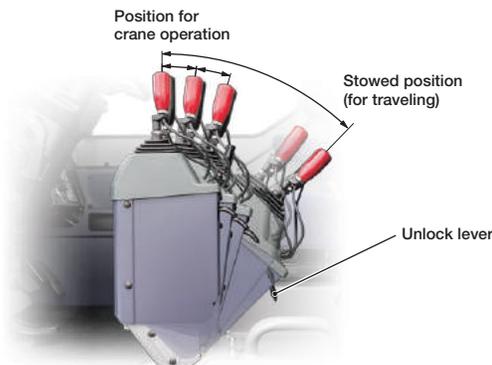


Adjustment of Control Lever Stand

- The control lever stand has a 3-stage adjustment feature.
- Before you enter or exit the cab, or when you complete the crane operation, set the control lever stand on the left to the stowing position.
- The unlock lever is used by pulling to adjust for all positions of the control lever stand.



The control levers are smooth and responsive to the operators touch.



Multi-Function Display Operation Switch

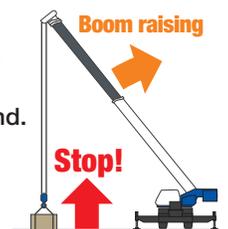
Convenient hand controls are also available for when operating the touchscreen is difficult (for instance when the seat is sliding back).



Safety Control for Boom Raising Operation

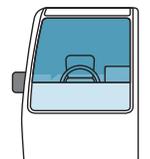
Prevent overload using boom raising operation for lifting a load off the ground.

*Release switch available for emergency operation



Visibility

The shape and height of the instrument panel as well as the angle of the windshield have all been designed for optimum forward visibility.



New cab



Smart Counterweight

SMART CW GR-1000XLL-4/GR-1000XL-4

Uses the new Smart Counterweight System

These are the first rough terrain cranes with Tadano's Smart Counterweight system, which allows the counterweight to be moved between two mounting positions. This feature improves lifting capacity by up to 19%.

Smart Counterweight 1 (Front position)



Smart Counterweight 2 (Rear position)



Hoist the counterweight and set it in either the front or rear position.



Counterweight operation switch



Counterweight operation switch

Slew the crane 180° and fully extend the counterweight cylinder. Connect the weight with the slewing table and retract the cylinder, fixing it in place.

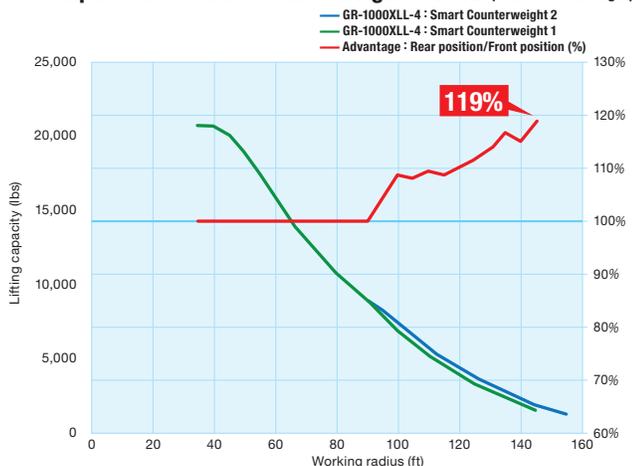


Tail Swing: 13.9'

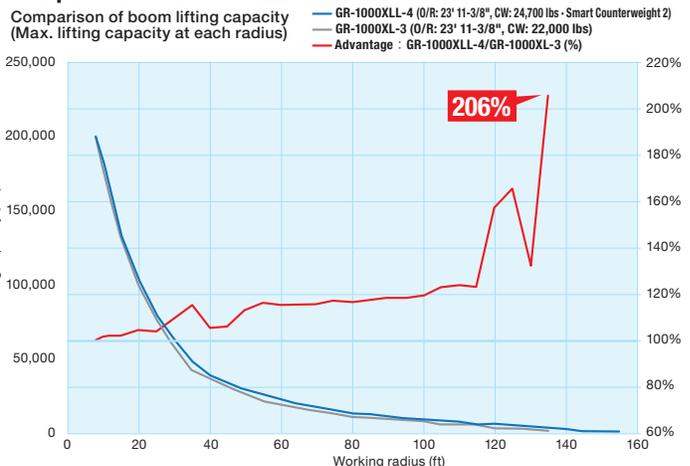


Tail Swing: 15.9'

Comparison of Smart Counterweight 1 and 2 (167.3 ft boom length)



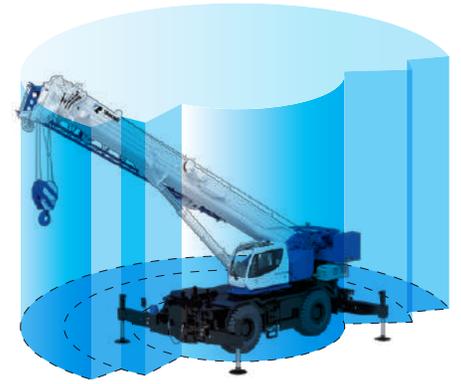
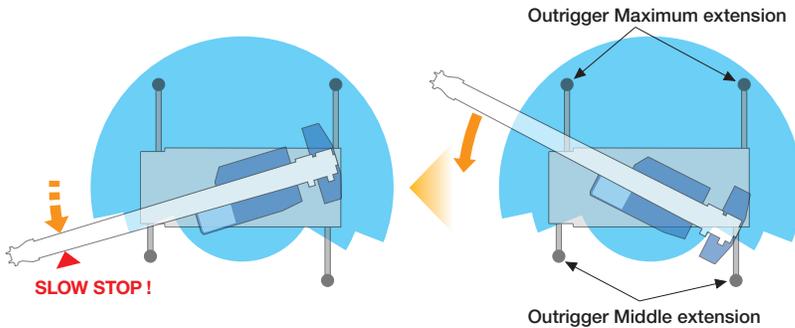
Comparison of GR-1000XLL-4 and GR-1000XL-3



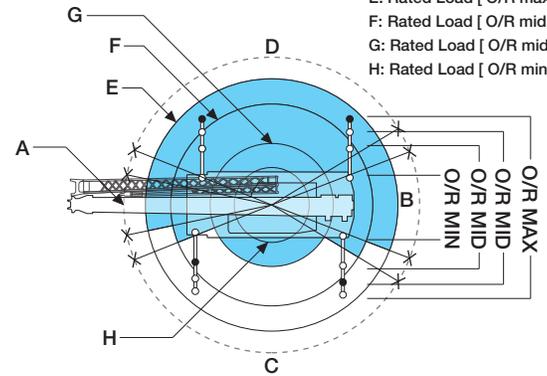
Asymmetric Outrigger Extension Width Control

When operating the crane with the asymmetric outriggers extended, the AML-E detects the extension width of all of the crane's outriggers (front, rear, left and right) to measure maximum work capacity in each area. When slewing the boom from the longer outrigger area to the shorter outrigger area, the AML-E detects the motion and displays the maximum capacity according to the extension width of each of the outriggers, and brings the motion to a slow stop before it reaches the maximum capacity.

The AML-E's slow stop function will help to minimize any safety risks even in the cases of operator error.

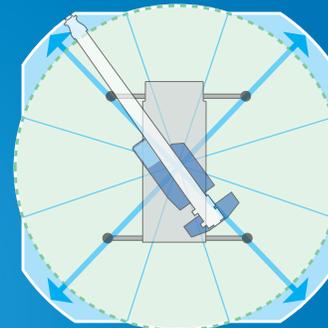


A: Over-front B: Over-rear
 C: Over-side D: Over-side
 E: Rated Load [O/R max.]
 F: Rated Load [O/R mid.]
 G: Rated Load [O/R mid.]
 H: Rated Load [O/R min.]



Smart Chart System

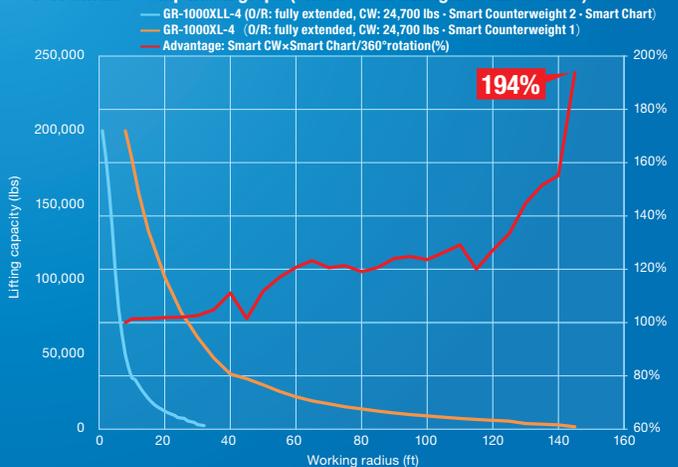
The newly developed Smart Chart expands the working area, allowing you to get the best crane performance in any outrigger extension setup.



In maximum outrigger extension setups

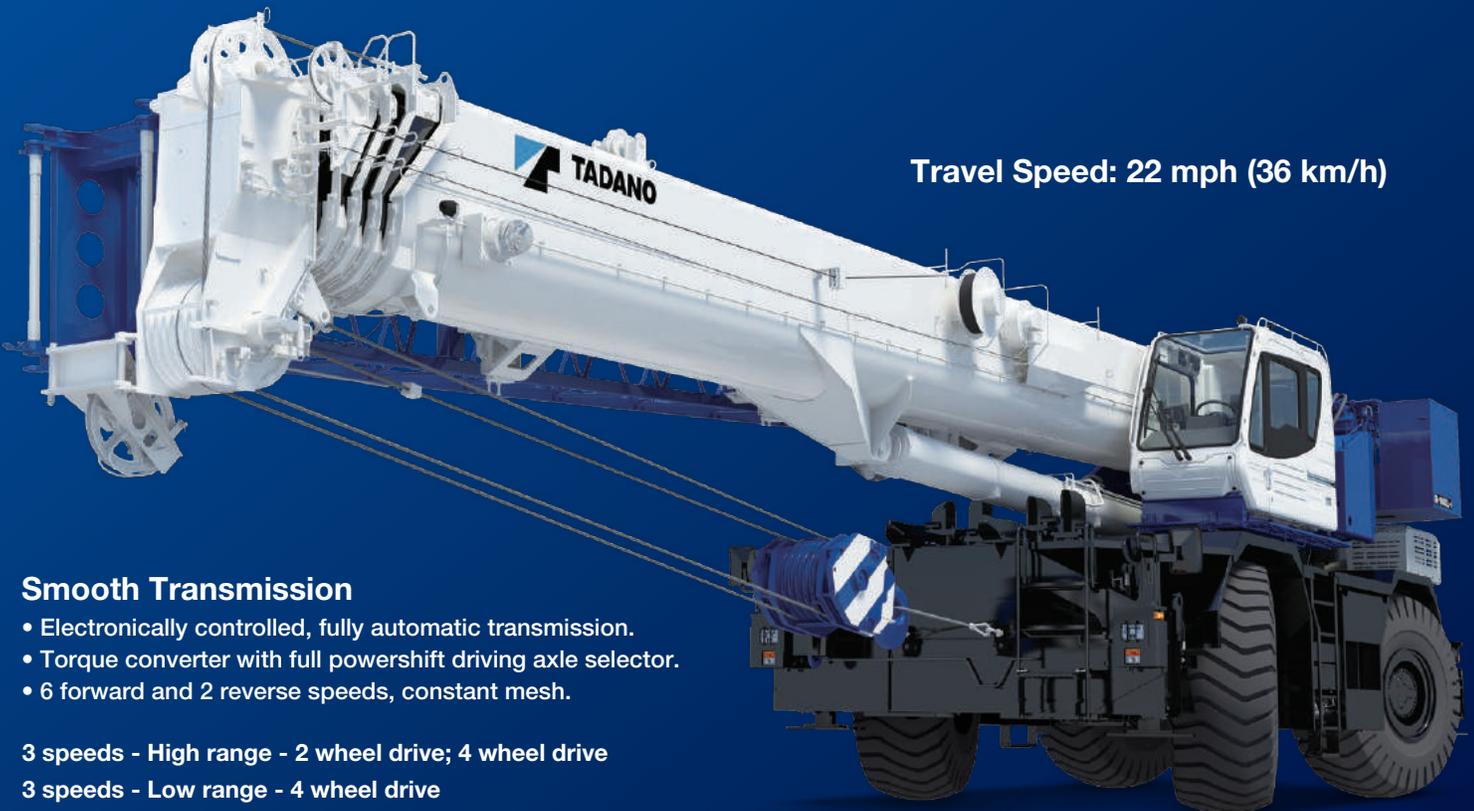
The Smart Chart taps the potential of a crane by expanding the conventional circular working area into a square one, improving work safety and efficiency.

Performance comparison graph (Smart Counterweight + Smart Chart)



Carrier

The GR-1000XLL-4, GR-1000XL-4 and GR-800XL-4 has a compact width/height 2-axle carrier which offers improved maneuverability and reduced footprint for ease of transportation.



Travel Speed: 22 mph (36 km/h)

Smooth Transmission

- Electronically controlled, fully automatic transmission.
- Torque converter with full powershift driving axle selector.
- 6 forward and 2 reverse speeds, constant mesh.

3 speeds - High range - 2 wheel drive; 4 wheel drive

3 speeds - Low range - 4 wheel drive

Photo: GR-1000XLL-4 (optional model)



High Performance Engine

Cummins B6.7

4 cycle, turbo charged and after cooled.

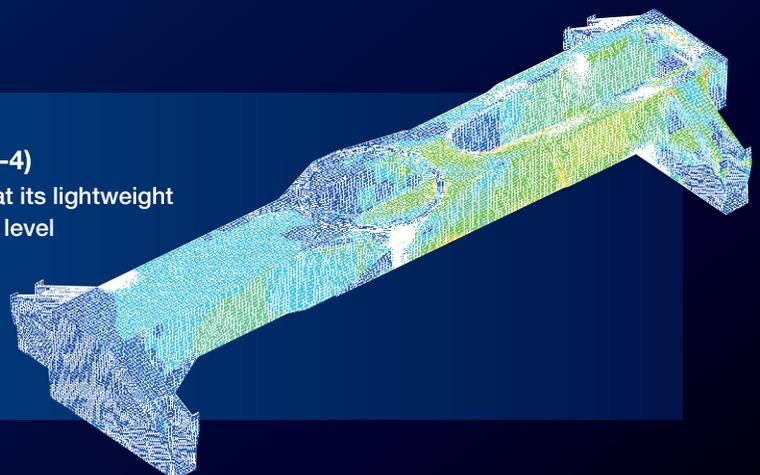
Horse power (kW): Gross 280 (209) at 2,200 min⁻¹ {rpm}

Max. torque ft-lb (Nm): 850 (1,152) at 1,500 min⁻¹ {rpm}

New Carrier Frame (GR-1000XLL-4/GR-1000XL-4)

The new carrier frame design is developed and built so that its lightweight is compatible with its high rigidity to achieve an advanced level of performance. As a result, the rigidity is enhanced and leads highly stabilized maneuverability for the new model of crane.

*Compared with our conventional crane models





TADANO View System

Supports safety confirmation through an above-the-vehicle image shown on the large multi-function display.

*Camera range is limited. Do not rely only on the image. Confirm safety around the vehicle directly before driving.

Right front view monitor



Right front view camera



Right front and Rear view monitor

Rear view camera



Rear view monitor

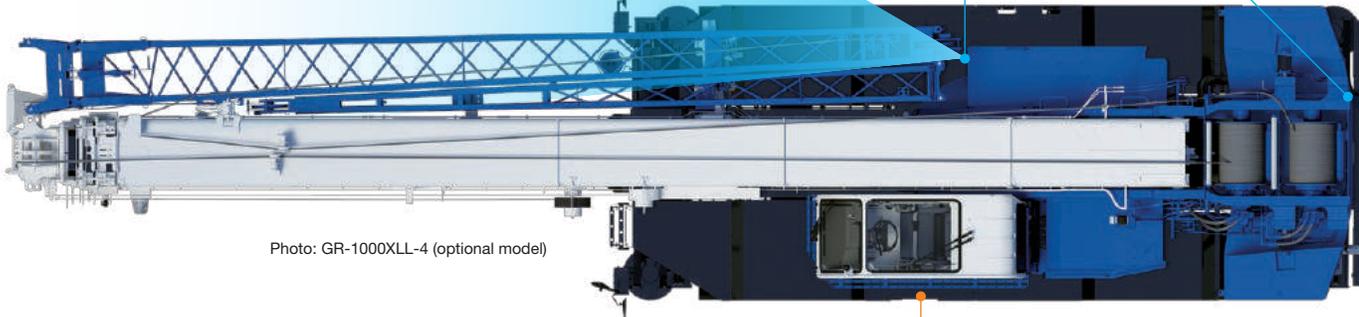


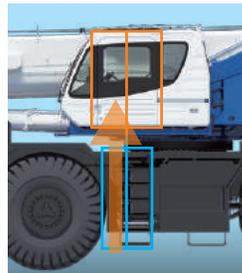
Photo: GR-1000XLL-4 (optional model)

Axle

Front: Full floating type, steering and driving axle with planetary reduction.

Rear: Full floating type, steering and driving axle with planetary reduction and non-spin rear differential.

Improved Accessibility to Cab



Clearance Sonar

Detects obstacles right behind the vehicle, and warns you with a flashing icon on the indicator and buzzer sound.

*Detection distance: approx. 1 ft - 8.5 ft (0.3 m - 2.6 m)



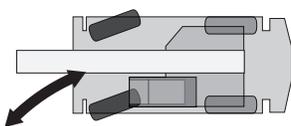
Clearance sonar monitor



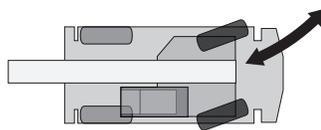
Clearance sonar

4 Steering Modes

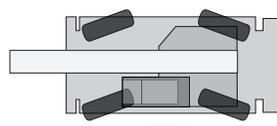
Hydraulic power steering controlled by steering wheel.



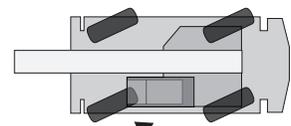
2 Wheel Front



2 Wheel Rear

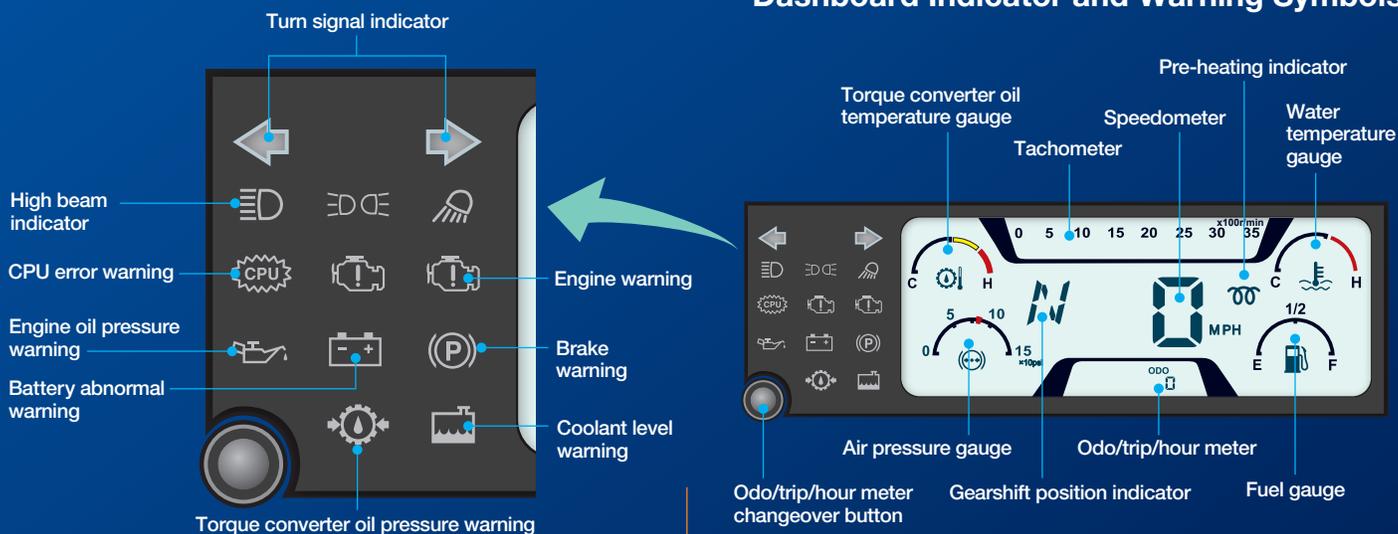


4 Wheel Coordinated



4 Wheel Crab

Dashboard Indicator and Warning Symbols



12 V power outlet



USB port

Air conditioner control panel

Large multi-function display



Transmission shiftswitch



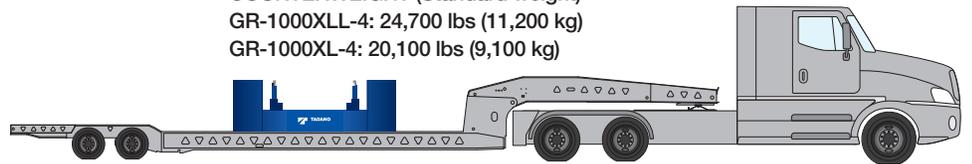
Cup holder



Traveling and Transportation

COUNTERWEIGHT (Standard weight)
 GR-1000XLL-4: 24,700 lbs (11,200 kg)
 GR-1000XL-4: 20,100 lbs (9,100 kg)

GR-1000XLL-4/GR-1000XL-4



GVW

GR-1000XLL-4: 98,800 lbs (44,840 kg)

GR-1000XL-4: 97,200 lbs (44,070 kg)



GR-800XL-4

The vehicle body weight is less than 100,000 pounds, making road permits easy to acquire. The largest model in its class that can be transported by trailer without dismantling.

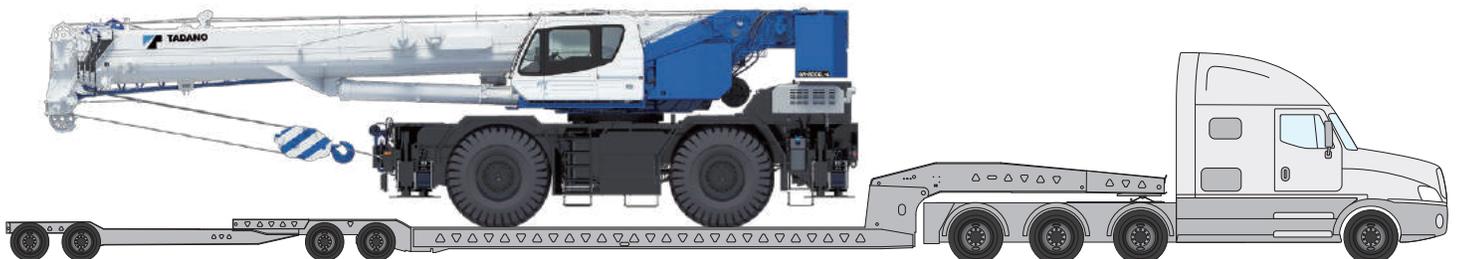


Photo: Optional model

Reduced Fuel Consumption

Fuel Monitoring

Checking fuel consumption enables an operator to prevent wasteful fuel consumption from unnecessary acceleration and idling.

The average fuel consumption is shown when your crane is operated. Fuel consumption during standby is automatically displayed when each control lever and pedal is in neutral position.

Fuel consumption during standby: 0.3 G
Average fuel consumption: 0.8 h/G



Preset menu display (during crane operation)



Fuel consumption history display (during crane operation)



Fuel consumption history display (during traveling)

Positive Control System

Effectively controls the quantity of hydraulic pump discharge during crane operation in response to the amount of movement applied, and reduces CO₂ consumption.

Automatic Pump Disconnect

When the automatic pump disconnect switch is set to ON and the crane is not in use for a duration of time, the crane's hydraulic pump automatically shuts off, helping to reduce fuel consumption. Three settings are available for the duration of the crane operation standby before the pump shuts off: MIN, MID and MAX.

- MIN: 1 minute
- MID: 3 minutes
- MAX: 5 minutes

Eco Mode System

Controls the maximum engine speed at the time of crane operation and enables fuel consumption and CO₂ emission to decrease by Max. 28% with Eco mode 1, and Max. 37% with Eco mode 2, and noise level is reduced.

Fuel consumption
CO₂ emissions

**Down
max.
12%**

HELLO-NET

HELLO-NET is a tool that connects the crane operations with owners, their service staff and the manufacturer through satellite. This high quality telematic tool collects data of the crane including working history, maintenance data and machine location. HELLO-NET can be accessed by the manufacturer to assist with downtime and to help improve Tadano support services.



HELLO-NET Telematics - Available in the U.S. and Canada, other countries may vary. Contact your distributor or sales@tadano-cranes.com for details.

HELLO-DATA LINK

Smartphone App

HELLO-DATA LINK connects cranes to mobile devices by wireless LAN, allowing you to receive operating status, indications, error codes and other information in real-time from outside the cab.

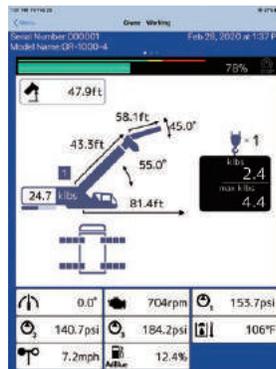
HELLO-DATA LINK helps crane and site supervisors to monitor operating status and stay informed on repairs and maintenance.



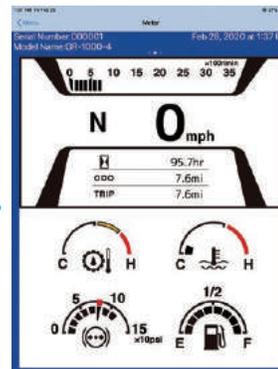
Three Working Displays

*Available display modes and information may differ depending on machine model.

Display information from connected machines via handy smartphone or tablet. Swipe to easily change screens.



Crane display

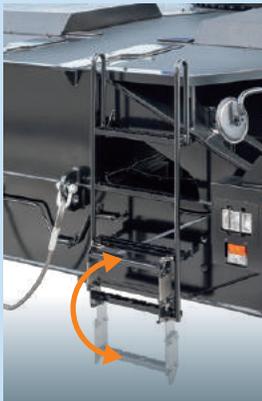


Meter display



Indicators display

Standard Equipment



Front steps



Right side steps



Rear steps



Tool box



Battery Disconnect Switch



Work Light



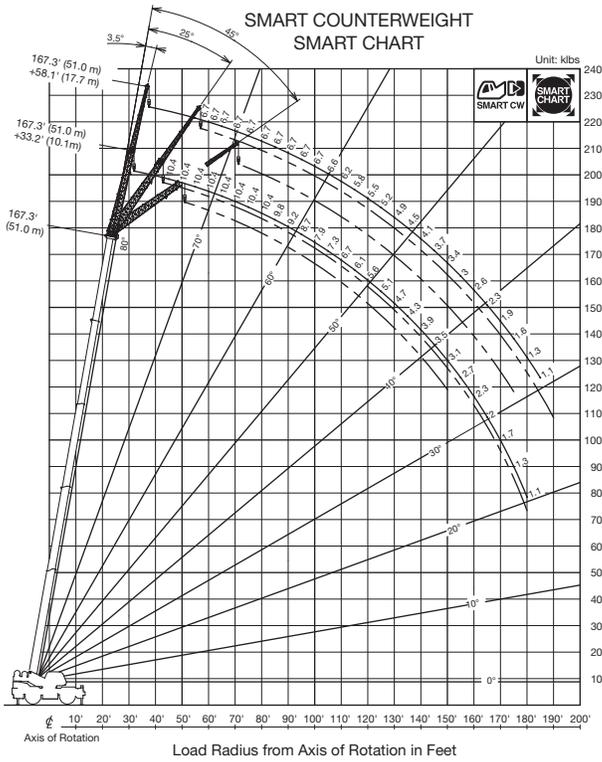
DEF Tank



Anemometer (GR-1000XLL-4)

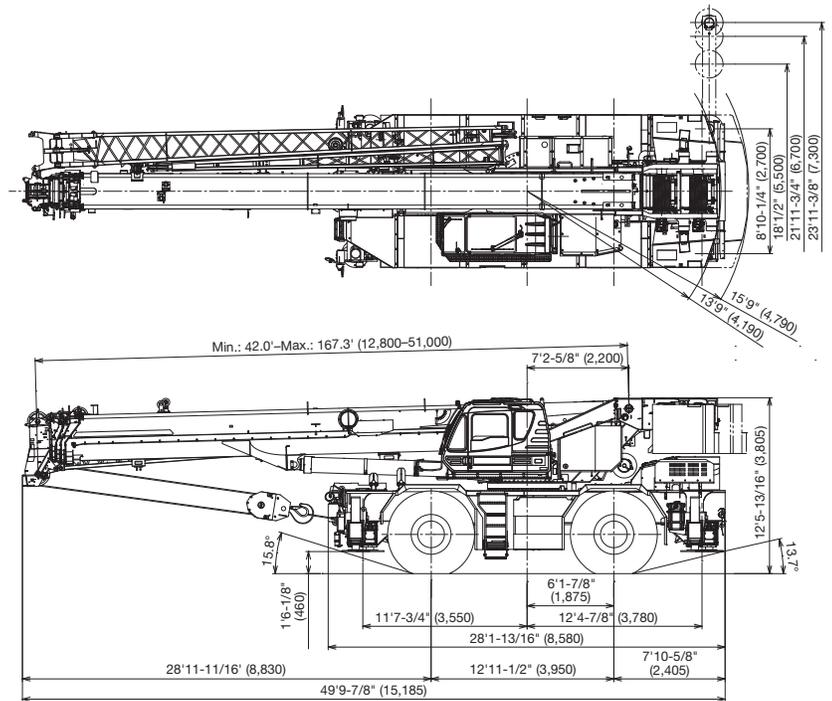
GR-1000XLL-4

WORKING RANGE



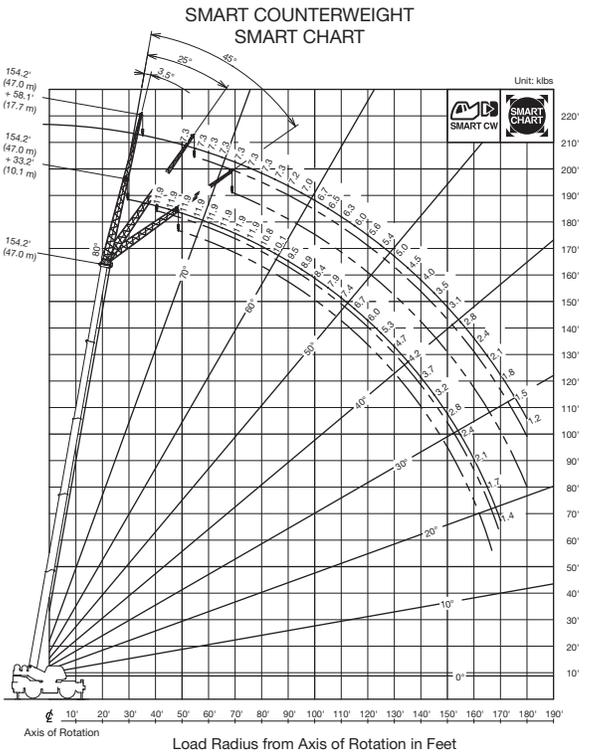
DIMENSIONS

Note: Dimension is with boom angle at -1.5 degree.
() Reference dimensions in mm.



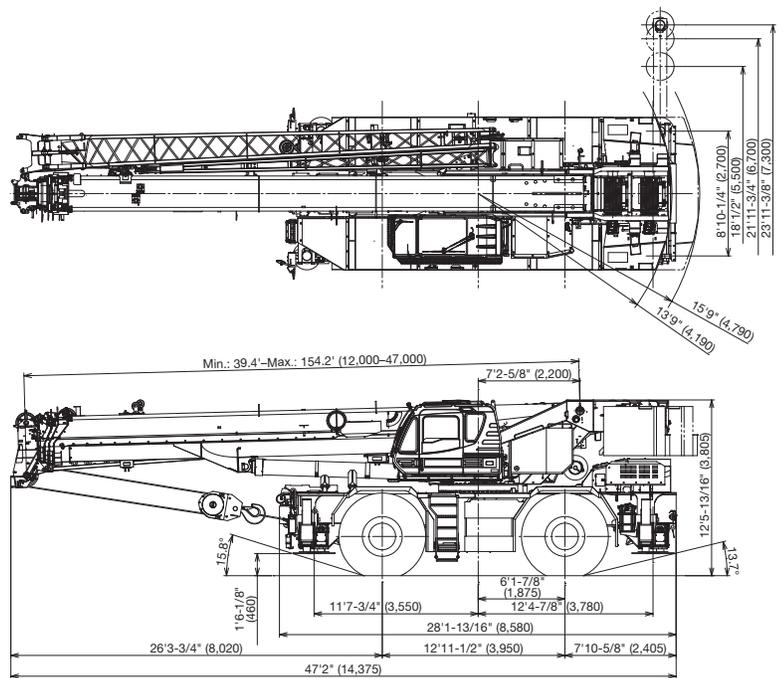
GR-1000XL-4

WORKING RANGE



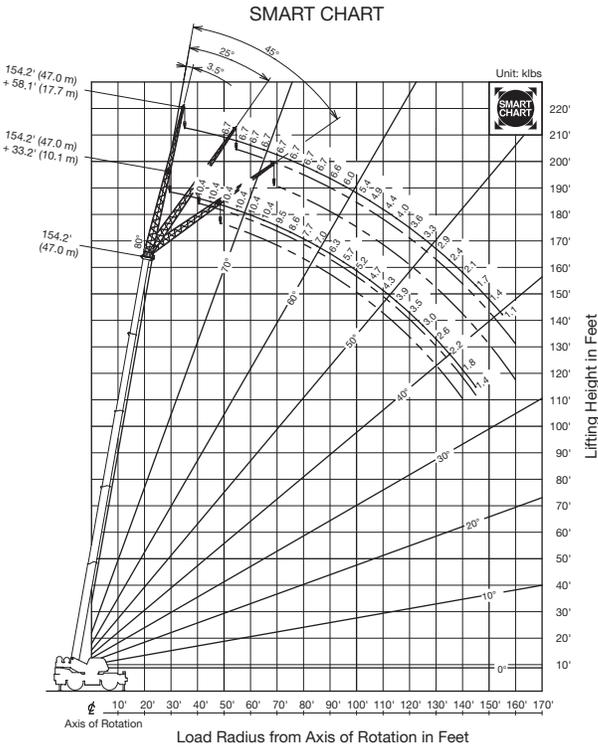
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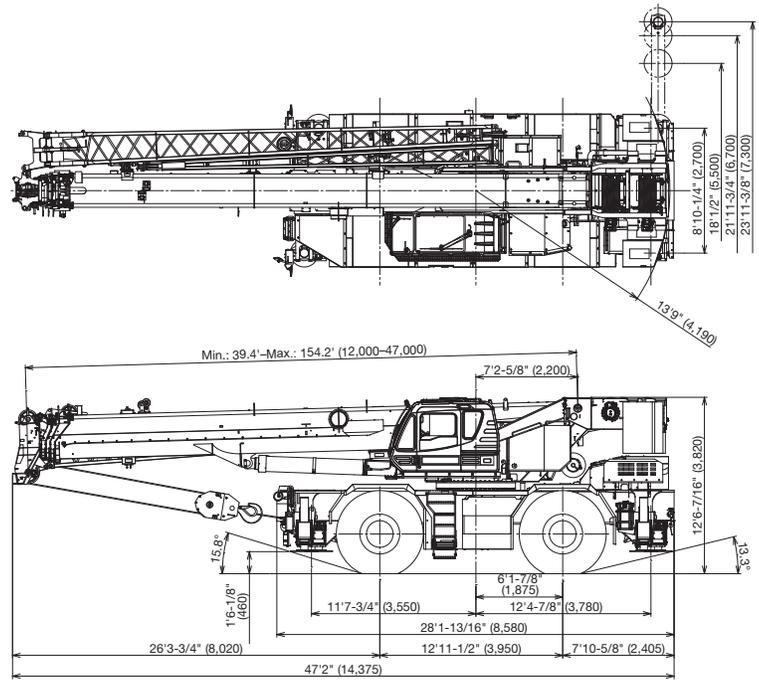
GR-800XL-4

WORKING RANGE



DIMENSIONS

Note: Dimension is with boom angle at -1.6 degree.
() Reference dimensions in mm.





GR-1000XLL-4 100 TON (90.7 METRIC TON)



GR-1000XL-4 100 TON (90.7 METRIC TON)



GR-800XL-4 80 TON (72.6 METRIC TON)

Photo: Optional model



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www.tadanoamerica.com

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