



GLADLY TAKE ON THE HARD WORK.

The new GR-Series in Europe.

NEXT- GENERATION RTS

Safety is the number one priority in the products we create at Tadano – but we go further. Tadano's next-generation rough terrain cranes deliver superior performance with an engine that meets the latest emission standards, while also facilitating even more efficient workflows, promoting work safety and providing exceptional comfort. Featuring a redesigned cab that enhances operability and visibility, the Tadano GR-1000EX-4, GR-900EX-4, and GR-700EX-4 rough terrain cranes offer an unparalleled operator experience. Tadano has delivered on safety, quality and efficiency for more than 100 years. This is reflected in the confidence our customers place in us as we adapt each crane to the evolving needs of their businesses. Our next generation of rough terrain cranes keeps true to this tradition. Experience the new rough terrain cranes - the pride of Tadano.

A large white and blue Tadano rough terrain crane is shown in operation at an industrial site. The crane's boom is extended high into the air, and its hook is visible. The background features complex industrial structures, including distillation columns and piping, illuminated by warm lights, suggesting a sunset or sunrise setting. The crane has large, heavy-duty tires and a red and white striped safety pattern on its front bumper.

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

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INTRO



GR-1000EX-4

This best-in-class 51 m boom model expands the range of applications.

Crane capacity: 100 t

5-section boom: 51.0 m

Bi-fold jib with

2-stage extension: 10.1 m / 17.7 m

Overall length: 15.185 m

Overall width: 3.315 m

Overall height: 3.805 m



GR-900EX-4

The successor for the 47 m boom standard model shines with improved lifting performance.

Crane capacity: 90 t
5-section boom: 47.0 m
Bi-fold jib with
2-stage extension: 10.1 m / 17.7 m
Overall length: 14.375 m
Overall width: 3.315 m
Overall height: 3.805 m



GR-700EX-4

This low-weight model significantly enhances ease of transportation.

Crane capacity: 70 t
5-section boom: 47.0 m
Bi-fold jib with
2-stage extension: 10.1 m / 17.7 m
Overall length: 14.375 m
Overall width: 3.315 m
Overall height: 3.805 m



Photo: Optional model

Ultimate Boom for Rough Terrain Crane

The rounded boom is made of high tensile steel, which maximizes boom strength at a lower boom weight. In addition, the highperformance automatic moment limiter AML-E provides continuous control of the load.

EXTRA-LONG BOOM AND SWIFT OPERATION

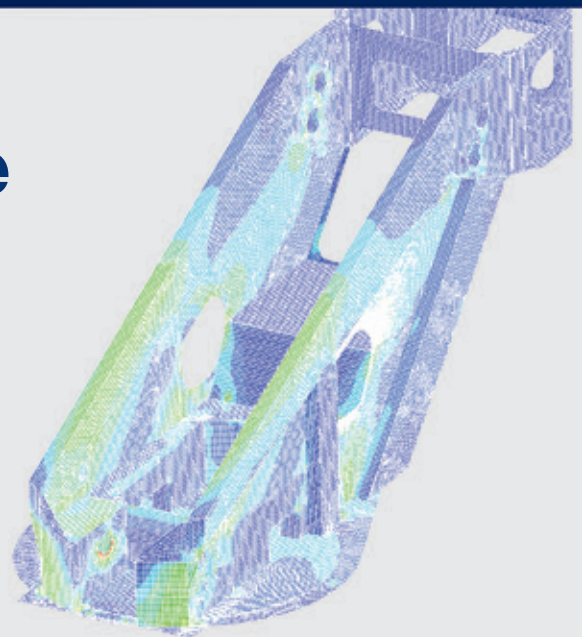
Max. boom length: **51.0 m** [GR-1000EX-4]
47.0 m [GR-900EX-4]
47.0 m [GR-700EX-4]

Telescoping mechanism: 2 hydraulic cylinders with wire ropes. The synchronized telescopic system facilitates fast operation. Two telescoping modes can be selected to flexibly adapt to the task.

New Superstructure Frame

The crane structure is engineered to meet the requirements of tough everyday use. The design is supported by FEM* analysis while keeping with Tadano's original concept of maintaining a compact and rigid slewing structure without deviating from the optimal overall height.

*FEM: Finite Element Method



New Design

Emergency Engine
Stop Switch



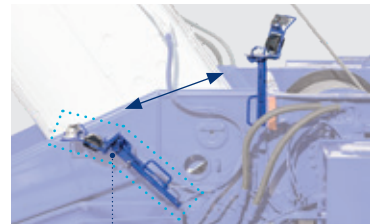
Rubber
Floor Mat



Outrigger
Control Panel



Winch Drum Camera



Stowed
transport position

Two-Roll
Sunshade



Adjustable in any position

Longer Wiper Blade

Flat Windshield

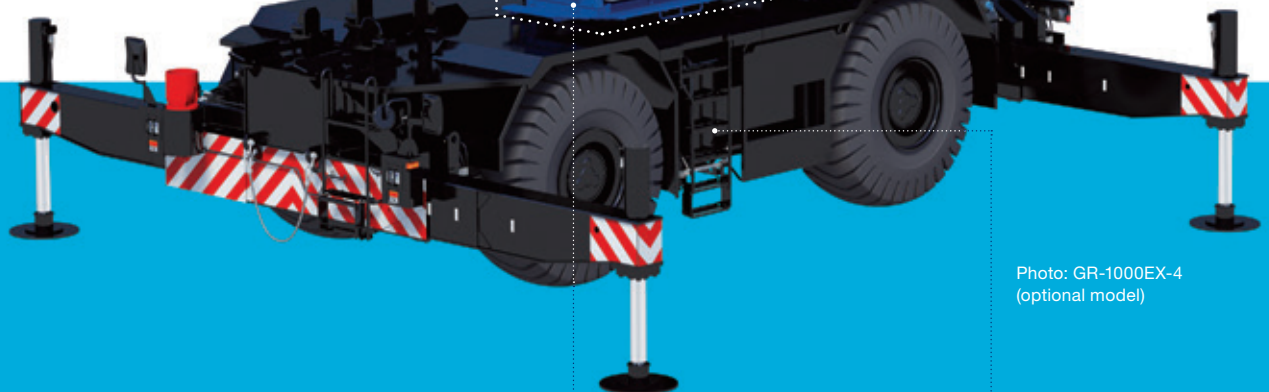


Photo: GR-1000EX-4
(optional model)

Catwalk for Easy
Cab Access



Improved Cab
Accessibility



Newly designed stepladder
*Left side



Cab tilt indicator
and switch

Tiltable Cab

Tilting the cab during high hoisting operations such as lifting with the jib enhances the operator experience. The available cab tilting angle ranges from 0° to 20°.



BI-FOLD JIB

A two-stage, bi-fold lattice-type jib can be offset at 3.5°, 25°, and 45° to provide additional reach required.



ASSIST CYLINDER FOR JIB

When mounting and stowing the jib, the hydraulic assist cylinders increase work efficiency.



TELESCOPING MODES 1 & 2

The operator can choose between two boom telescoping options, enhancing capabilities for any lift.



Mode 1

In Mode 1, only section 2 is extended initially. This is followed by a synchronized extension of sections 3, 4 and 5.



Mode 2

In Mode 2, the synchronized extension of sections 3, 4 and 5 comes first. Section 2 then extends independently.

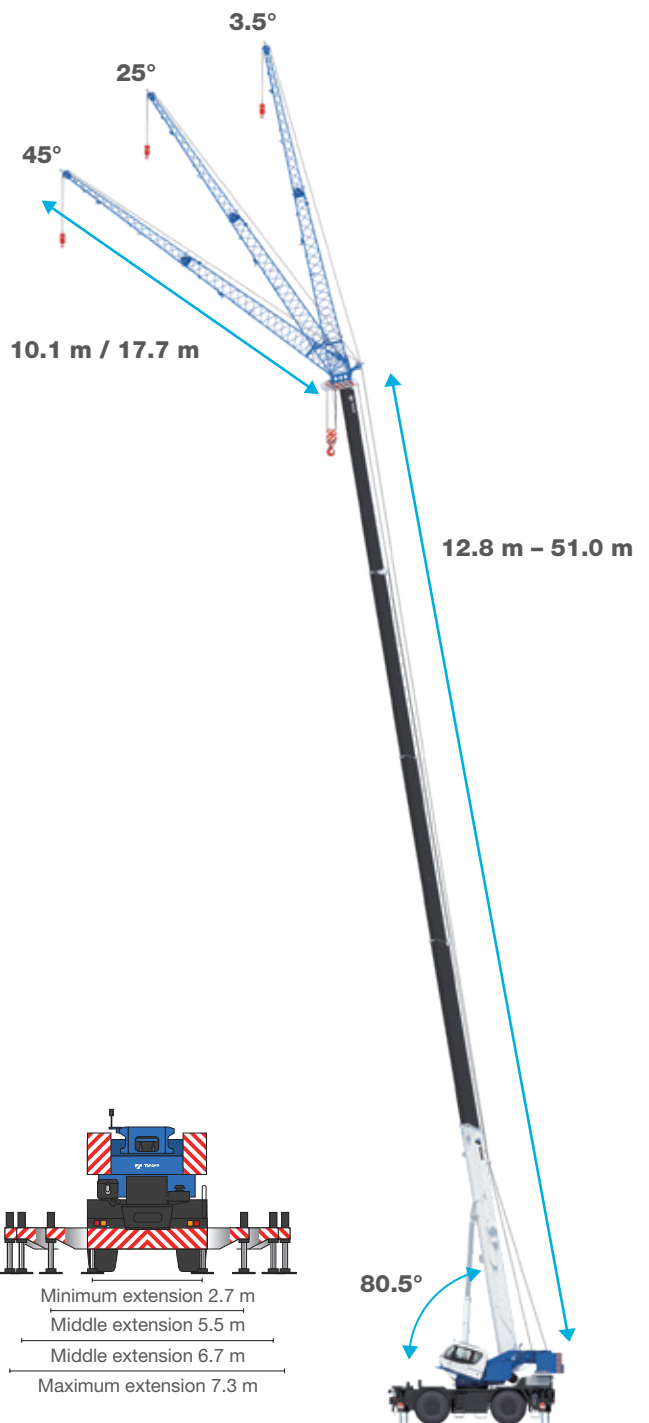
TWO WINCHES WITH CABLE FOLLOWER

Both the main winch and the auxiliary winch boast a powerful line pull and operate at high speeds, enhancing work efficiency.



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

GR-1000EX-4



Crane capacity: 100 t

5-section boom: 51.0 m

Bi-fold jib with 2-stage extension: 10.1 m / 17.7 m

Maximum lifting height:

50.6 m [Boom]

68.3 m [Jib]

Maximum load radius:

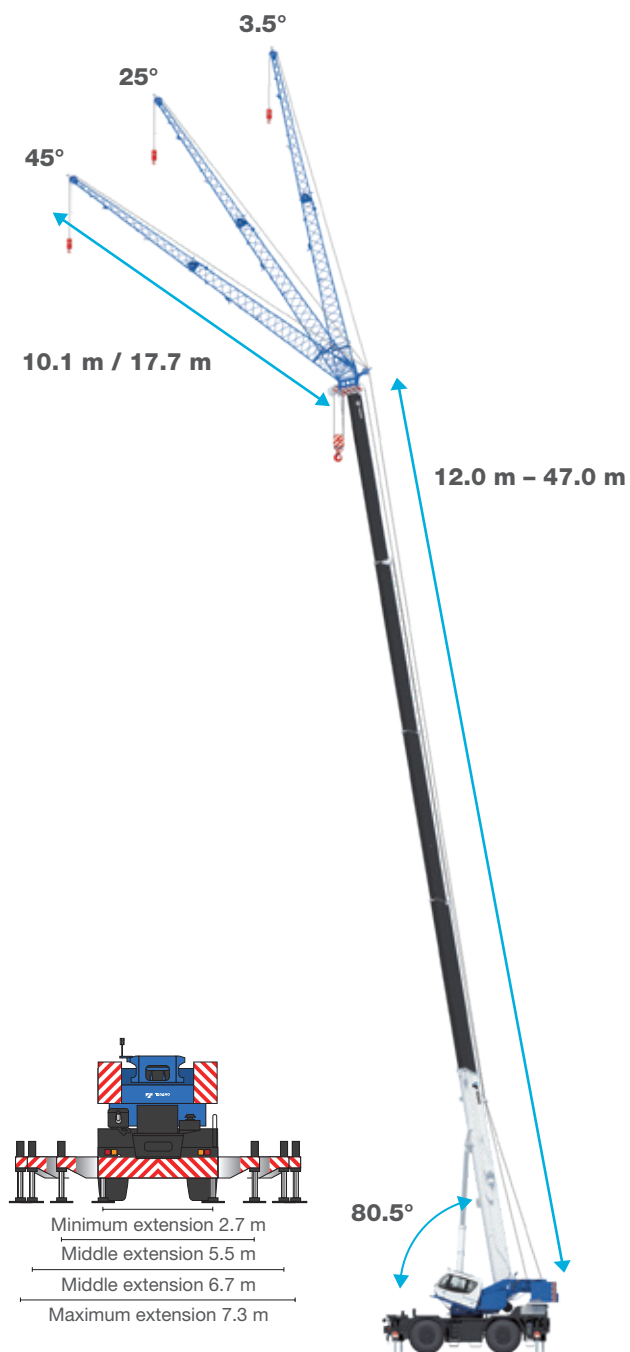
42.0 m [Boom]

44.0 m [Boom] (Smart CW 2 + SMART CHART)

52.0 m [Jib]

54.0 m [Jib] (Smart CW 2 + SMART CHART)

GR-900EX-4



Crane capacity: 90 t

5-section boom: 47.0 m

Bi-fold jib with 2-stage extension: 10.1 m / 17.7 m

Maximum lifting height:

47.1 m [Boom]

64.4 m [Jib]

Maximum load radius:

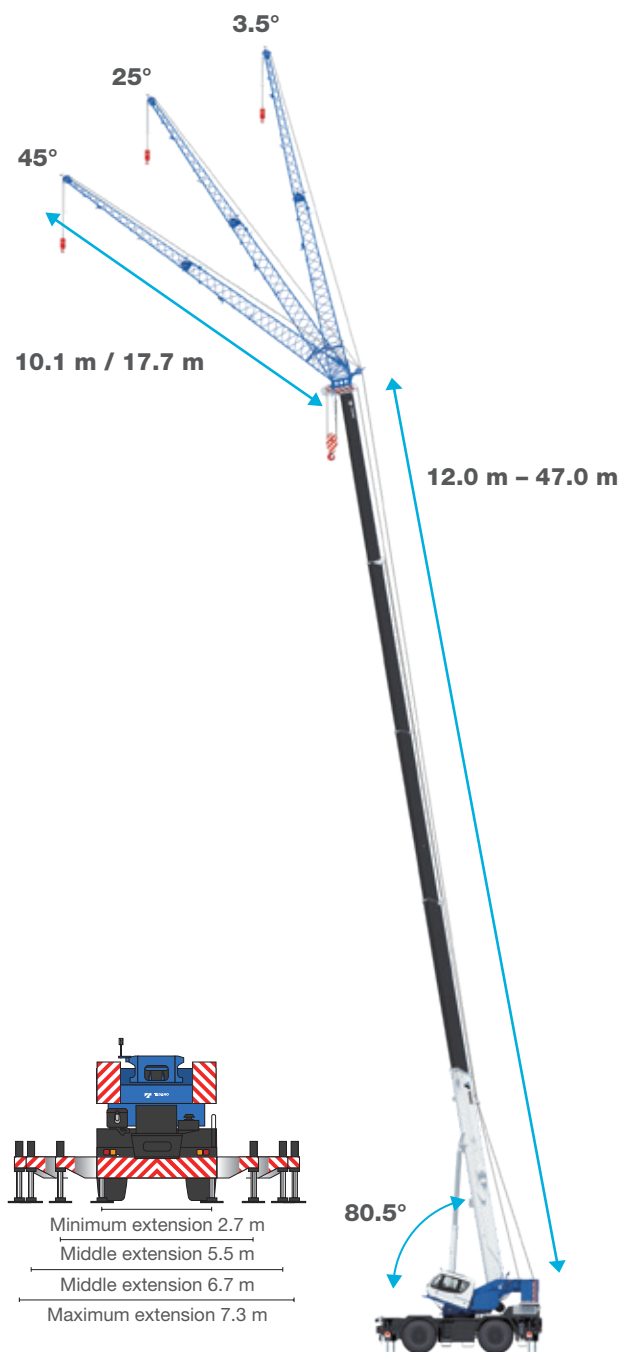
40.0 m [Boom]

42.0 m [Boom] (Smart CW 2 + SMART CHART)

50.0 m [Jib]

52.0 m [Jib] (Smart CW 2 + SMART CHART)

GR-700EX-4



Crane capacity: 70 t

5-section boom: 47.0 m

Bi-fold jib with 2-stage extension: 10.1 m / 17.7 m

Maximum lifting height:

47.1 m [Boom]

64.4 m [Jib]

Maximum load radius:

36.0 m [Boom]

40.0 m [Boom] (SMART CHART)

44.0 m [Jib]

48.0 m [Jib] (SMART CHART)

Optimized Cab

Crane cab and equipment are designed for comfort and operational efficiency.



Automatic Moment Limiter [AML-E]

LARGE MULTI-FUNCTION DISPLAY

The 10.4-inch color touch panel consolidates operation information and settings for greater work efficiency and comfort. The pressure sensitivity of the touch panel is geared towards gloved operation.

External warning light



Load moment ratio

Number of parts of line for main winch wire rope

Number of parts of line for auxiliary winch wire rope

Drum indicator

Outrigger status indicator

Slewing position



Hydraulic oil temperature indication

Fuel consumption monitor

Operation indicator



Operation status display

Hook load

Rated lifting capacity

Working area



(Example)
Working area when outriggers are asymmetrically extended

Winch drum monitoring camera



Operation status



Working area setting



SEAT ADJUSTMENT

Multiple seat adjustment positions for ease of operation.

Armrest adjustment button

Slide adjustment lever



MULTI-FUNCTION DISPLAY LUFFING SWITCH

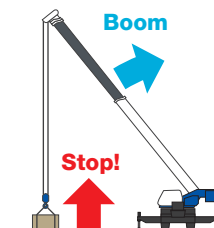
Convenient hand controls are available in addition to touchscreen operation.



SAFETY CONTROL FOR BOOM LUFFING OPERATION

Prevents overload when the boom is raised to lift a load off the ground.

*Release switch available for emergency operation



ADJUSTMENT OF CONTROL LEVER STAND

- The control lever stand has a 3-stage adjustment feature.
- Before entering or exiting the cab and when a crane operation is complete, the control lever stand on the left should be set to stowing position.
- The unlock lever is pulled to adjust all positions of the control lever stand.

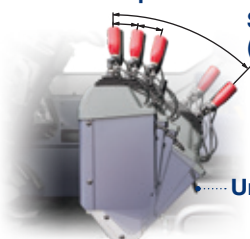


The control levers are smooth and responsive to the operator's touch.

Position for crane operation

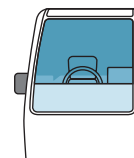
Stowing position (for traveling)

Unlock lever



VISIBILITY

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



New cab

Smart Counterweight

GR-1000EX-4/GR-900EX-4



NEW SMART COUNTERWEIGHT SYSTEM

These rough terrain cranes are the first to feature Tadano's Smart Counterweight system.

The counterweight can be moved between two mounting positions, increasing lifting capacity by up to 20%.

Smart Counterweight 1 (Front position)



Smart Counterweight 2 (Rear position)



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



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



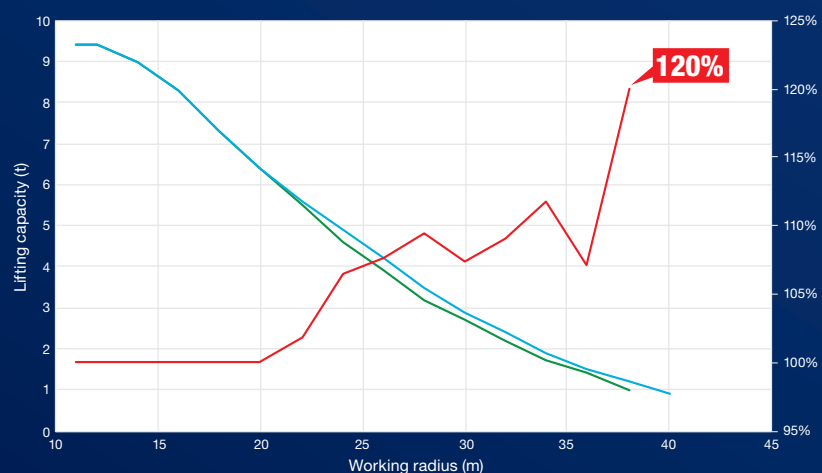
Tail Swing: 4.190 m



Tail Swing: 4.790 m

Comparison of Smart Counterweight 1 and 2 (51 m boom length)

GR-1000EX-4 : Smart Counterweight 2 —
GR-1000EX-4 : Smart Counterweight 1 —
Advantage: Rear position/Front position (%) —

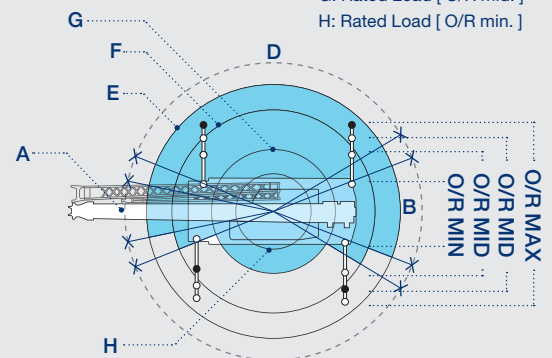
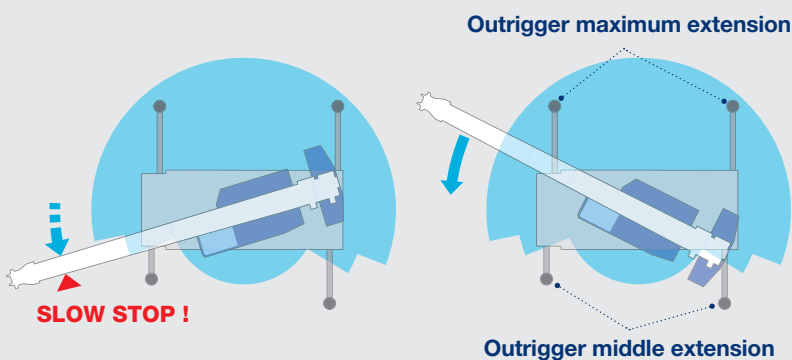


Asymmetric Outrigger Extension Width Control

When operating the crane with an asymmetric outrigger extension, the AML-E detects the extension width of all the crane's outriggers (front, rear, left and right) to determine the maximum load capacity in each area. When the boom is slewed from a longer outrigger area to a shorter one, the AML-E detects the motion. It then displays the maximum capacity according to the extension width of each outrigger, and brings the motion to a slow stop before this maximum capacity is reached. The AML-E's slow stop function helps minimizing risks, even in the event of operator error.

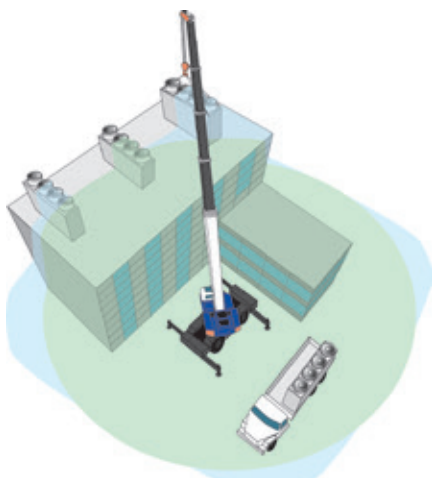
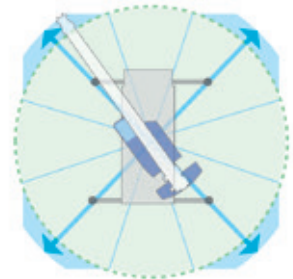


A: Over-front B: Over-rear
C: Over-side D: Over-side
E: Rated Load [O/R max.]
F: Rated Load [O/R mid.]
G: Rated Load [O/R mid.]
H: Rated Load [O/R min.]



Smart Chart System

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

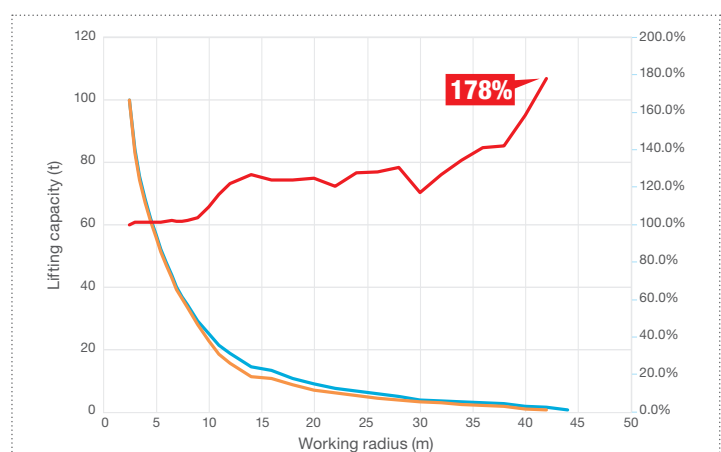


UNDER MAXIMUM OUTRIGGER EXTENSION SETUPS

The Smart Chart boosts crane potential by expanding the conventional circular working area, improving efficiency.

Performance comparison graph (Smart Counterweight, Smart Chart)

- GR-1000EX-4 (O/R: fully extended, CW: 11.2 t, Smart Counterweight 2, Smart Chart)
- GR-1000EX-4 (O/R: fully extended, CW: 11.2 t, Smart Counterweight 1)
- Advantage: Smart Counterweight, Smart Chart/360°rotation (%)



CARRIER

The GR-1000EX-4, GR-900EX-4 and GR-700EX-4 come with a compact width/height 2-axle carrier which offers improved maneuverability and a reduced footprint for ease of transportation.



TRAVEL SPEED: 18 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-1000EX-4 (optional model)



HIGH PERFORMANCE ENGINE

Cummins B6.7

4 cycle, turbo charged and after cooled.

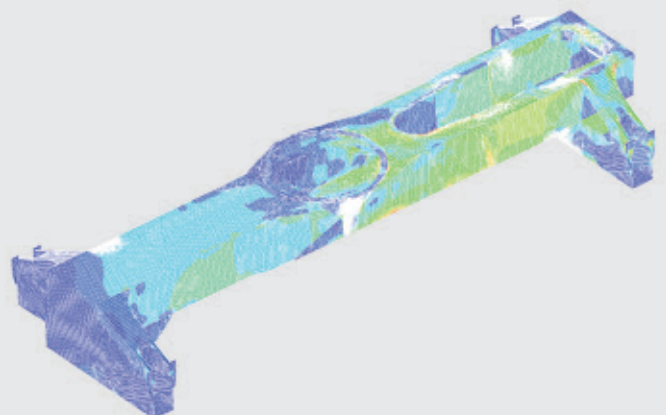
Horse power kW (HP): Gross 209 (280) at 2,200 min⁻¹

Max. torque Nm: 1,152 at 1,500 min⁻¹

New Carrier Frame (GR-1000EX-4/GR-900EX-4)

The new carrier frame design is engineered to perfectly combine light weight and high rigidity to achieve superior performance. The resulting greater rigidity of the new crane model stabilizes crane maneuvers at a new level.

*Compared with our conventional crane models



TADANO View System

The view shown on the large multi-function display helps to significantly improve visibility.

*Camera range is limited. Do not rely only on the image.
Confirm clearance 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

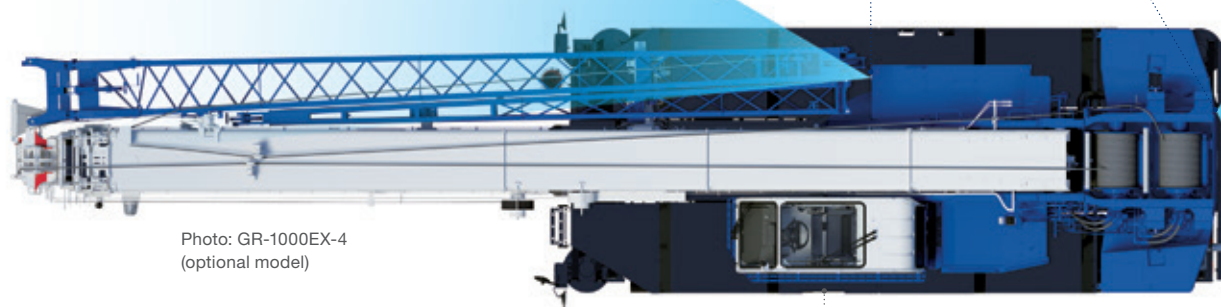


Photo: GR-1000EX-4
(optional model)

Improved Cab Accessibility



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.

Clearance Sonar

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

*Detection distance: approx. 0.3 m – 2.6 m



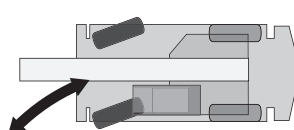
Clearance sonar monitor



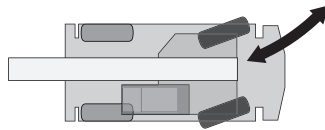
Clearance sonar

Four Steering Modes

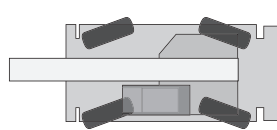
Hydraulic power steering controlled by steering wheel.



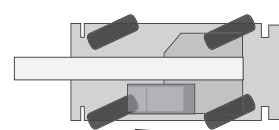
2 Wheel Front



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 shift switch



Cup holder

Traveling and Transportation



GR-1000EX-4/GR-900EX-4

COUNTERWEIGHT (Standard weight)

GR-1000EX-4: 11,200 kg

GR-900EX-4: 9,100 kg



GVW

GR-1000EX-4: 43,990 kg

GR-900EX-4: 43,220 kg



GR-700EX-4

GVW

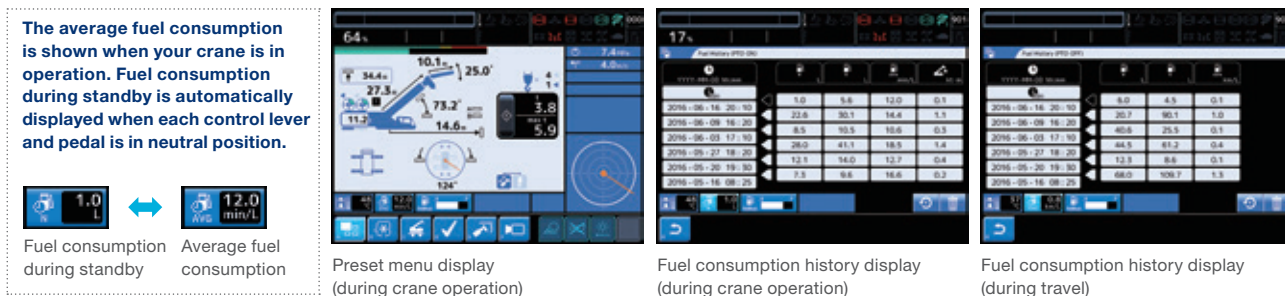
GR-700EX-4: 44,730 kg



Reduced Fuel Consumption

FUEL MONITORING

Fuel consumption monitoring helps operators minimizing fuel consumption from unnecessary acceleration and idling.



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 emission.

ECO MODE SYSTEM

Controls the maximum engine speed during crane operation allowing a decrease in fuel consumption and CO₂ emission by up to 28% with Eco mode 1, and up to 37% with Eco mode 2, while also reducing noise levels.

AUTOMATIC PUMP DISCONNECT

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

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

Down max.
12%

Fuel consumption
CO₂ emissions

HELLO-NET

HELLO-NET is a tool to connect crane operations with owners, their service staff and the manufacturer via satellite. This high-quality telematic tool is able to collect data of the crane including working history, maintenance data and machine location. The manufacturer can access HELLO-NET to assist with troubleshooting, and to provide Tadano support services.



ONLINE TELEMATICS (machine data logging and monitoring system) WITH HELLO-NET (*subject to availability).

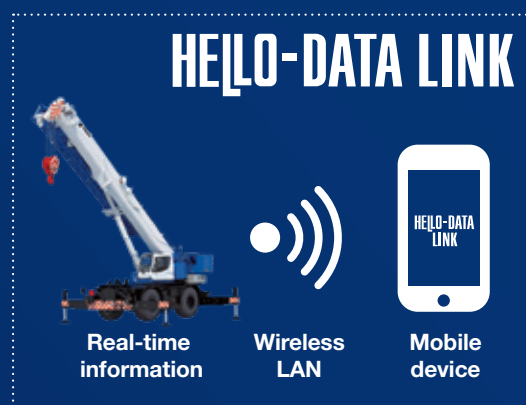
DETAILS: The availability of data communication systems including satellite or mobile communications that expand the service area differs between countries and regions. The system is not yet available in all countries. Please contact your distributor or our local sales representatives for further details.

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 monitor the operating status, and stay up to date on repairs and maintenance.



THREE WORKING DISPLAYS

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

Display information from connected machines via mobile devices. Simply swipe to 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



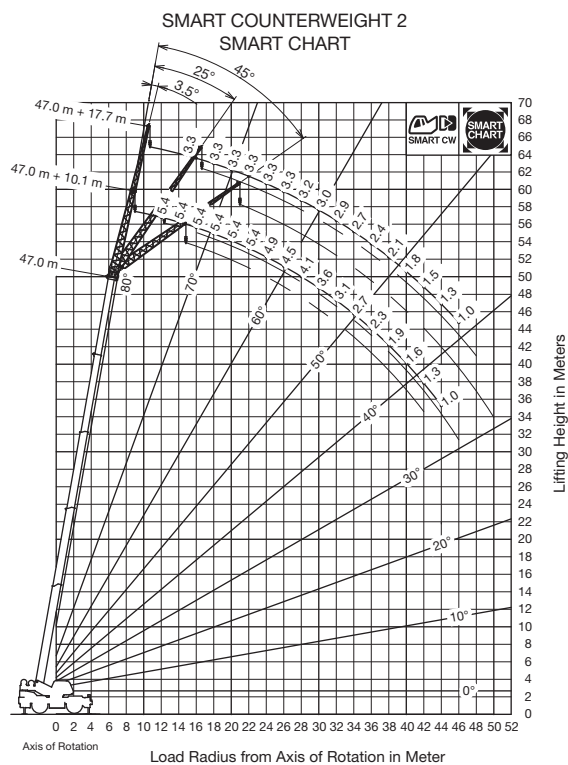
Anemometer

GR-1000EX-4

20

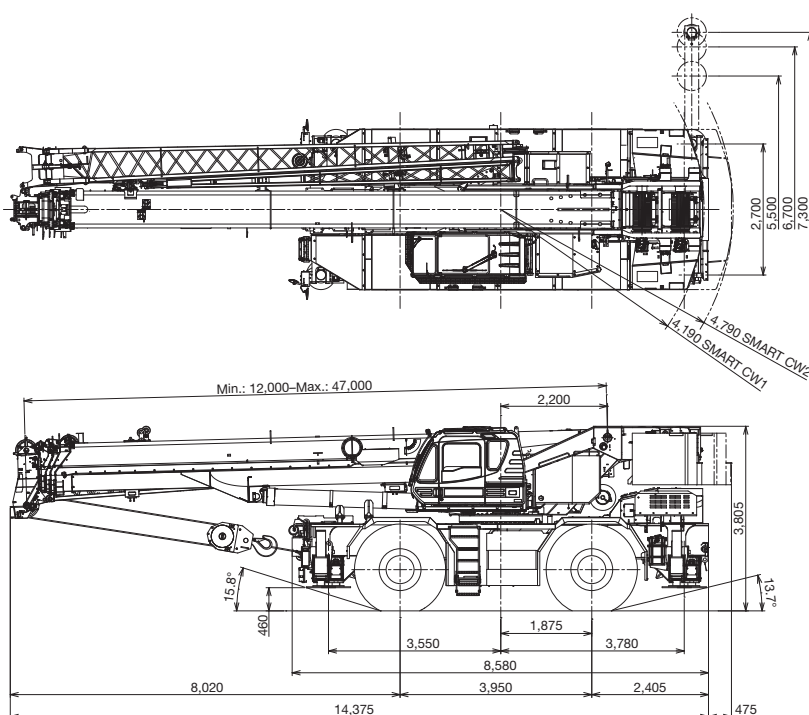
GR-900EX-4

WORKING RANGE



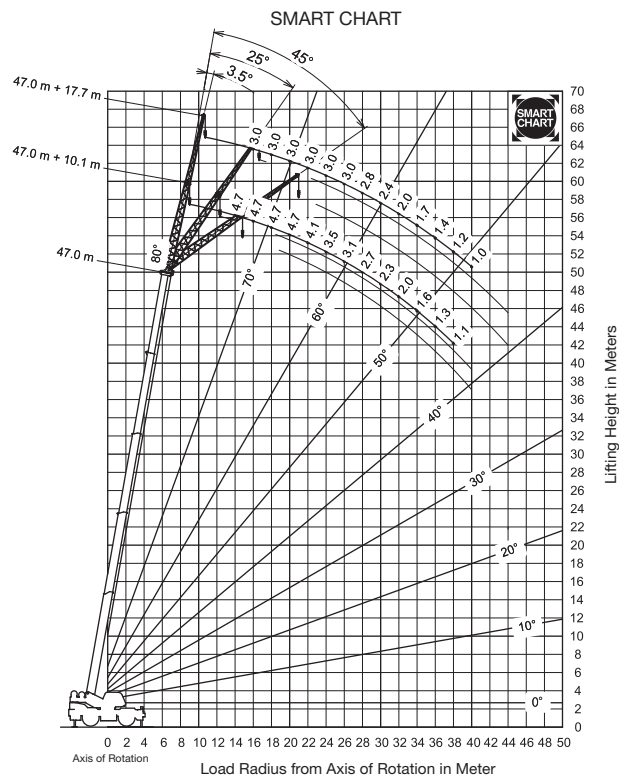
DIMENSIONS

Note: Dimensions at a boom angle of -1.5°.
(mm)



GR-700EX-4

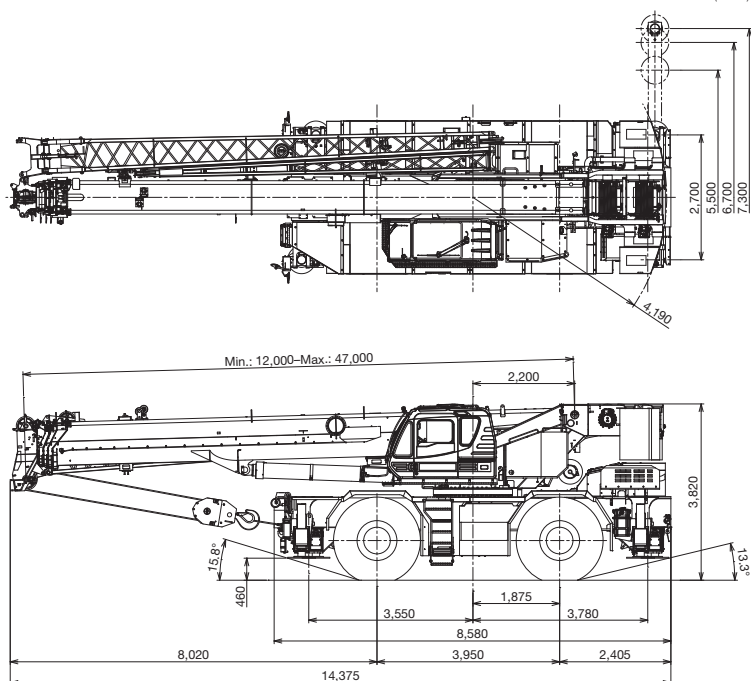
WORKING RANGE



DIMENSIONS

Note: Dimensions at a boom angle of -1.6° .

(mm)



SALES

CUSTOMER SUPPORT

PARTS

TRAINING

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