



ROUGH TERRAIN CRANE

GR-500EXL

51 METRIC TON CAPACITY

GR-500EXS

50 METRIC TON CAPACITY



GR-500EXL



GR-500EXS

Improved accessibility



Front steps



Rear steps



Left side steps



Right side steps



Steps on the superstructure



*The GR-500EXL/EXS:
High Quality We Are Proud Of*



Photo: GR-500EXL



Lifting your dreams

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Same great carrier, two flexible options!



Crane capacity:
51 ton at 2.5 m
(50 ton at 3.0 m)
5-section long boom:
11.1 m – 42.0 m
2-staged under slung jib:
8.0 m / 12.7 m

Crane capacity:
50 ton at 2.5 m
(47.4 ton at 3.0 m)
4-section long boom:
10.2 m – 33.0 m
2-staged under slung jib:
8.0 m / 12.7 m

GR-500EXL

GR-500EXS

Tadano has launched two new rough terrain cranes in order to meet customer requirements and the needs of a global market. Both models combine a compact carrier for better maneuverability and improved driving performance. You will also appreciate many enhancements to the GR-500EXL and the GR-500EXS, including improved accessibility, environmental friendliness and high maintainability. Tadano is confident that these new solutions will prove to be a great fit for your next project.

Substantial safety function

Automatic moment limiter [AML-C]



Tadano's AML-C is easy to use, innovative in design, displays important information to the operator and enables the operator to preset a custom working environment. For example, the AML-C shows the boom angle, boom length, load radius, operating pressure of the elevating cylinder, the extension width of the outriggers, slewing position, rated lifting capacity and present hook load. These features allow the AML-C to move seamlessly through all lifting operations without having to change configurations or input new codes to make the lift. The AML-C safety features provide both audible and visual warnings. When an operation approaches the load limit Tadano's slow stop function engages to avoid shock loads.



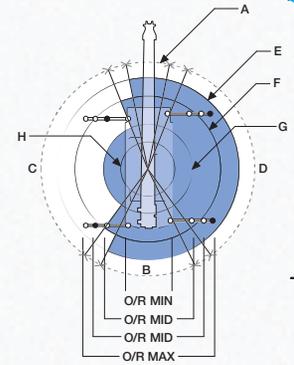
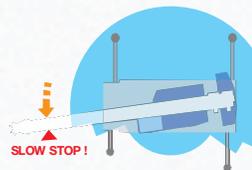
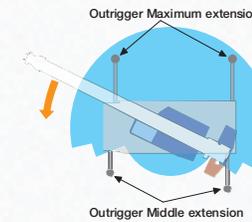
AML lamp

Outrigger asymmetric extension width control

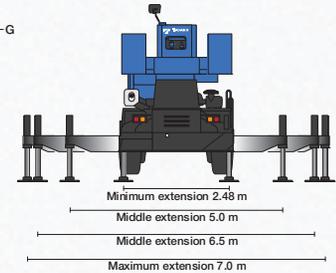
When operating the crane with the asymmetric outriggers extended, the AML-C detects the extension width of all of the crane's outriggers (front, rear, left and right) to measure maximum work capacity in each area. When slewing the boom from the longer outrigger area to the shorter outrigger area, the AML-C 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-C's slow stop function will help to minimize any safety risks even in the cases of operator error.



Photo: GR-500EXL

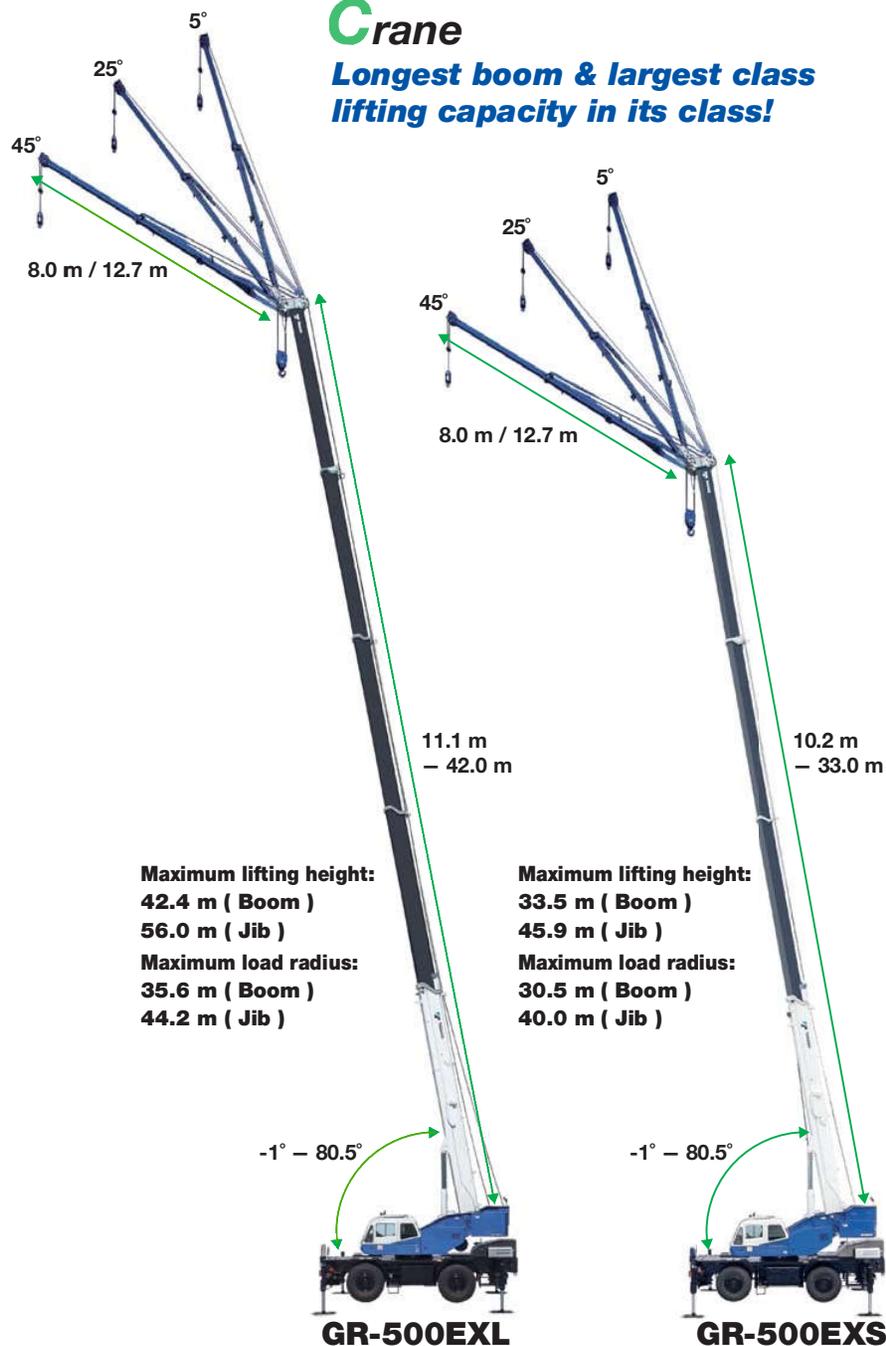


A: Over-front B: Over-rear C: Over-side D: Over-side
E: Rated Load [O/R max. 7.0 m]
F: Rated Load [O/R mid. 6.5 m]
G: Rated Load [O/R mid. 5.0 m]
H: Rated Load [O/R min. 2.48 m]



Crane

Longest boom & largest class lifting capacity in its class!

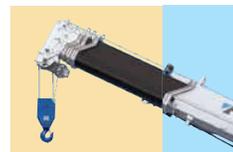


Two telescoping modes I & II (GR-500EXL)

Operator capabilities are enhanced by two boom telescoping options for individual lift requirements.

Mode I

Mode I is the extension of the 2nd section only. This is followed by the synchronized extension of the 3rd, 4th, and 5th sections.



Mode II

Mode II is the synchronized extensions of the 3rd, 4th and 5th sections. The 2nd section then extends independently.



Operator comfort

The crane cab provides improved livability and a more comfortable working environment.



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



Two winches with cable follower

Under slung jib (side up type)

A two-stage, under slung jib makes installation in narrow spaces possible.

Jib installation



Carrier

Newly designed carrier provides improved driving performance.



Photo: GR-500EXS

Good front and side view for driving

Double short elevating cylinders are installed at the rear side of cab to improve visibility while driving.



Radial tire (GR-500EXL: 505/95R25, GR-500EXS: 445/95R25)

Radial tires have been adopted to extend continuous travel time.

Radial tire

Continous travel without a break

Non-radial tire

30 minute drive

120 minute break

30 minute drive

Fast traveling speed

Max. traveling speed: 48 km/h (GR-500EXL)
44 km/h (GR-500EXS)

Locking Differential

A locking differential assists operators on rough roads.



Suspension

Front: Rigid mounted to the frame Rear : Semi-elliptic leaf springs



High performance engine

MITSUBISHI 6M60-TL
4 cycle, turbo charged and after cooled.
Max. output: 200 kW at 2600 min⁻¹{rpm}
Max. torque: 785 N-m at 1,400 min⁻¹{rpm}

New Design

Compact carrier for rough terrain crane

GR-500EXL

Overall length: approx. 13,390 mm

Overall width : approx. 2,960 mm

Overall height: approx. 3,860 mm

GR-500EXS

Overall length: approx. 12,500 mm

Overall width : approx. 2,960 mm

Overall height: approx. 3,810 mm

Boom head mirror

Boom head mirrors are used for checking the immediate area on each side of the vehicle in order to enhance driving safety.



Winch drum monitoring mirror

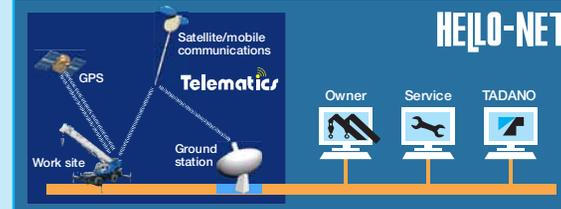
Folding mirror reduces height during transport.



Photo: GR-500EXS

HELLO-NET System

The HELLO-NET System is used to monitor crane activity straight from your computer or mobile device. You have the ability to view work history, machine position data and maintenance information. HELLO-NET provides advanced customer support between the owners' site and TADANO Group.



Note: HELLO-NET availability varies by situation.
For detail, please contact your distributor or our sales staff in charge.

Environmentally Friendly Features

Eco Mode System

The Eco Mode System controls the maximum engine speed at the time of crane operation. To prevent an unnecessary rise in engine speed when there is excessive acceleration, the system enables fuel consumption and CO₂ emissions to decrease by Max. 22 % with Eco mode I, and Max. 30 % with Eco mode II while simultaneously reducing noise levels.



Fuel Monitoring System

The Fuel Monitoring System constantly monitors fuel consumption on the AML screen. Checking this monitor enables you to prevent wasteful fuel consumption from unnecessary acceleration and idling.



During crane operation While traveling

