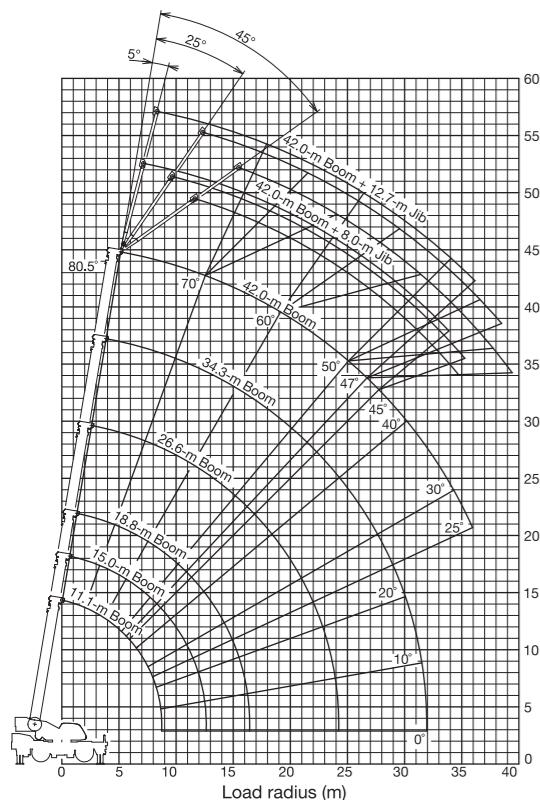


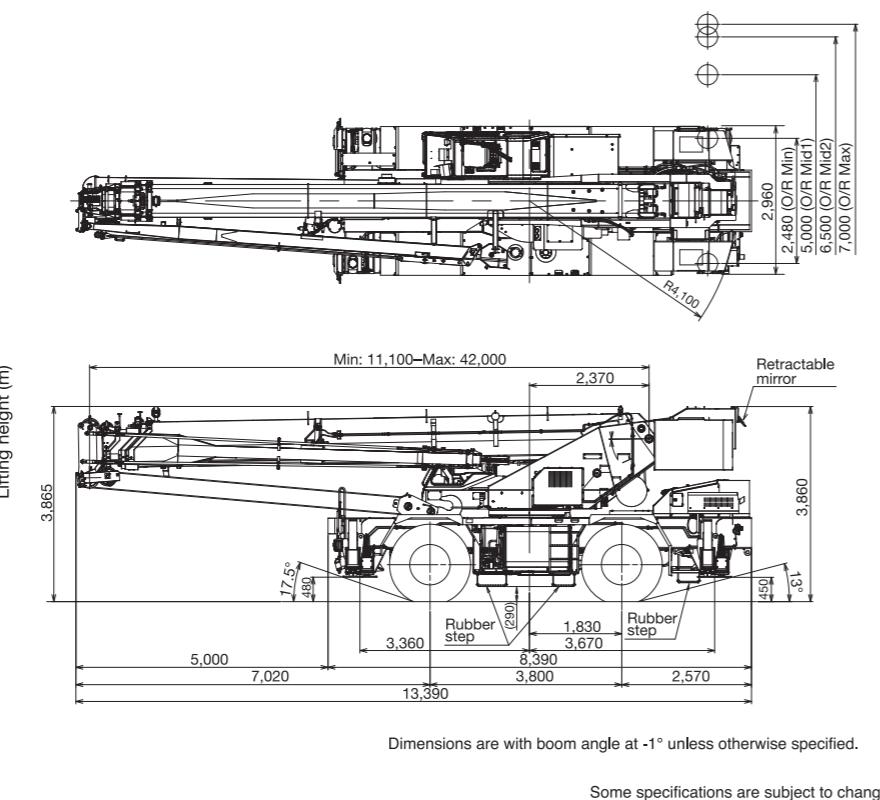
## SPECIFICATIONS

MAXIMUM CAPACITY	51,000 kg at 2.5 m (50,000 kg at 3.0 m)
PERFORMANCE	
Max. traveling speed	48 km/h
Gradeability (tan $\theta$ )	65% (at stall), 30%*
	* Machine should be operated within limit of engine crackcase design. (17°: Mitsubishi 6M60-TL)
WEIGHT	
Gross vehicle mass	38,480 kg (incl. 51 ton hook block)
-front axle	18,910 kg
-rear axle	19,570 kg
MIN. TURNING RADIUS	10.3 m (2-wheel steering), 6.0 m (4-wheel steering) (at center of extreme outer tire)
BOOM	5-section full power synchronized telescoping boom.
Fully retracted length	11.1 m
Fully extended length	42.0 m
Extension speed	30.9 m in 150 s
Angle	-1°-80.5°
Elevation speed	20° to 60° in 30 s
JIB	2-staged jib with triple offset (tilt type). Single sheave at jib head.
Offset Length	5°, 25°, 45° 8.0 m and 12.7 m
MAIN WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer.
Single line pull	44.1 kN (4,500 kgf)
Single line speed	132 m/min. (at 4th layer)
Wire rope	16 mm x 225 m (Diameter x length)
AUXILIARY WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer.
Single line pull	44.1 kN (4,500 kgf)
Single line speed	124 m/min. (at 3rd layer)
Wire rope	16 mm x 117 m (Diameter x length)
SLEWING	
Slewing speed	2.1 min <sup>-1</sup> (rpm)
Tail slewing radius	4,100 mm
HYDRAULIC SYSTEM	Pumps... 2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and optional equipment. Control valves... Multiple valves actuated by pilot pressure with integral pressure relief valves. Reservoir... 690 liters capacity. External sight level gauge. Oil Cooler... Air cooled fan type.

## WORKING RANGE



## DIMENSIONS



# GR-500EXL

Right-hand drive — 51 METRIC TON CAPACITY



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



# ROUGH TERRAIN CRANE GR-500EXL

Right-hand drive

## The Debut of a new crane for a solution to your problems!

Tadano has launched a new rough terrain crane that better meets customer's requirements. Our new crane combines a compact carrier for better maneuverability with improved driving performance. In addition, it equips the longest boom in its class. Tadano has also enhanced safety and operator comfort by improved accessibility, environmental friendliness and high maintainability. We are convinced that the GR-500EXL is the best solution for you.

### New Design

#### Compact carrier for rough terrain crane

Overall length: approx. 13,390 mm  
Overall width : approx. 2,960 mm  
Overall height: approx. 3,865 mm



\* Hook retaining rope is optional.

**Carrier**  
Newly designed carrier provides improved driving performance.



#### 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 (505/95 R 25)

Radial tires have been adopted to extend continuous travel time.

#### Radial tire

Continuous travel without a break

#### Non-radial tire

30 minutes drive → 120 minutes break → 30 minutes drive

#### Suspension

Front / Rear: Semi-elliptic leaf springs



#### Locking Differential

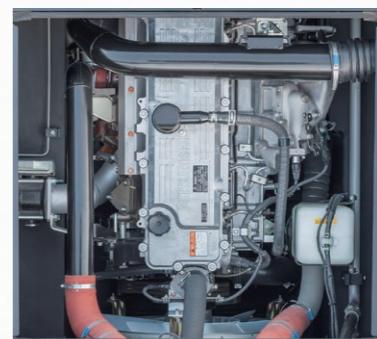
A locking differential assists operators on rough roads.

#### Fast traveling speed

Max. traveling speed: 48km/h

#### High performance engine

Increased engine durability.



MITSUBISHI 6M60-TL  
4 cycle, turbo charged and after cooled.

Max. output:

200 kW at 2600 min<sup>-1</sup> {rpm}

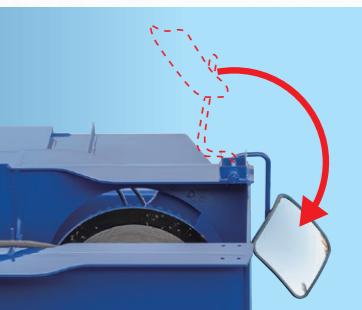
Max. torque:

785 N·m at 1,400 min<sup>-1</sup> {rpm}



#### 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.



## Automatic moment limiter [AML-C]



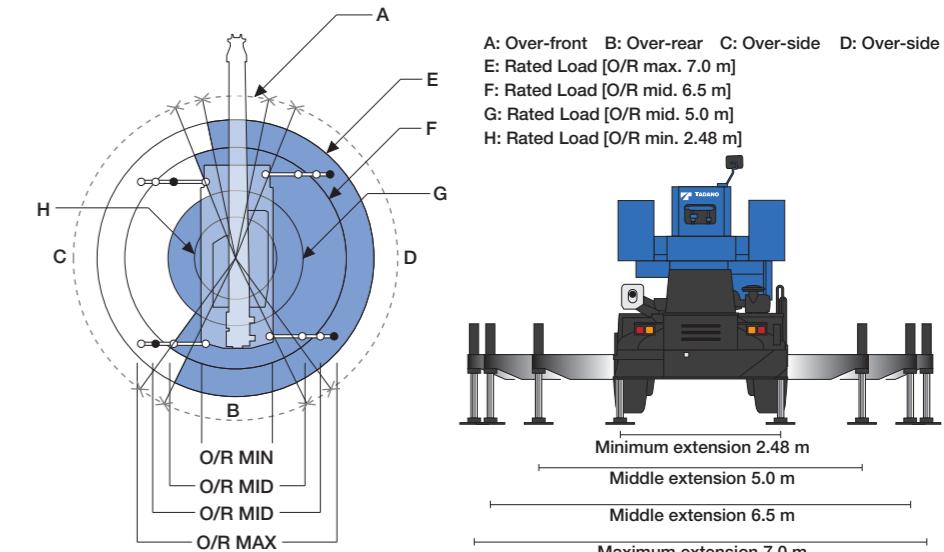
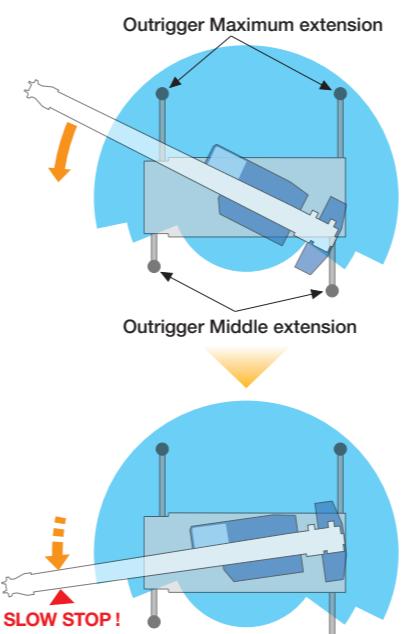
Tadano's AML-C is easy to use, innovative in design, displays important information to the operator and enables the operator to preset a custom working environment. For example, the AML-C shows the boom angle, boom length, load radius, operating pressure of the elevating cylinder, the extension width 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.



## 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.





#### Operator comfort

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



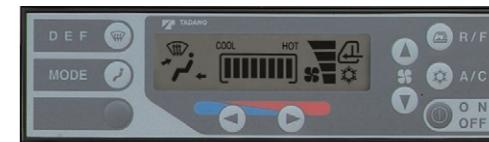
#### Standard Equipment



Tool storage compartment



Two winches with cable follower



Air conditioner  
Hot-water heater and air conditioning.

#### Improved accessibility



Front steps



Rear steps



Right side steps



Left side steps



Steps on the superstructure

## Environmentally Friendly Features

### Eco Mode System

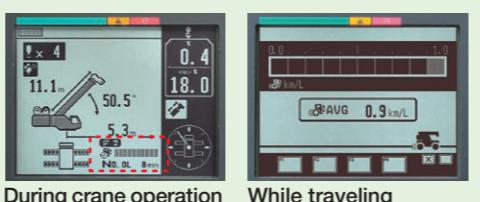
The Eco Mode System controls the maximum engine speed at the time of crane operation.



Eco mode switch

### 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

### 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.



Front



Left



Rear



Right

\* The hook retaining rope is optional.