MODEL : GR-500EXL (Right-hand drive)

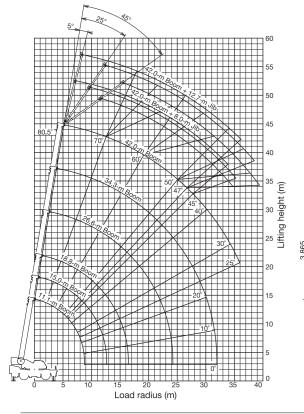
SPECIFICATIONS

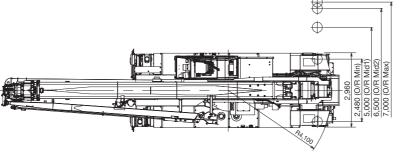
MAXIMUM CAPACITY	51,000 kg at 2.5 m (50,000 kg at 3.0 m)	TADANO Automa
PERFORMANCE		Moment Limiter
Max. traveling speed	48 km/h	(Model: AML-C)
Gradeability (tan θ)	65% (at stall) 30%*	l` í
	* Machine should be operated within the limit	
	of engine crackcase design.	
	(17°: Mitsubishi 6M60-TL)	
WEIGHT		
Gross vehicle mass	38,020 kg	
-front axle	18,220 kg	
-rear axle	19,800 kg	
MIN. TURNING RADIUS	10.7 m (2-wheel steering), 6.3 m (4-wheel steering)	
	(at center of extreme outer tire)	
BOOM	5-section full power telescoping boom.	
Fully retracted length	11.1 m	
Fully extended length	42.0 m	
Extension speed	30.9 m in 150 s	
Elevation speed	20° to 60° in 30 s	
JIB	2-staged boom swing around type.	
01B	Triple offset (5°/25°/45°) type.	
	Stows alongside base boom section.	OUTRIGGERS
	Single sheave at jib head.	
Length	8.0 m and 12.7 m	
MAIN WINCH	Variable speed type with grooved drum driven by	
	hydraulic axial piston motor through speed reducer.	Extension width
Max. single line pull	56.0 kN (5,710 kgf) (at the 1st layer)	
Max. single line speed	150 m/min. (at the 6th layer)	CARRIER
		O/ WINELI
Wire rope	16 mm (Diameter)	
AUXILIARY WINCH	Variable speed type with grooved drum driven by	ENGINE
Mana alterate Recorded	hydraulic axial piston motor through speed reducer.	ENGINE
Max. single line pull	56.0 kN (5,710 kgf) (at the 1st layer)	
Max. single line speed	150 m/min. (at the 6th layer)	
Wire rope	16 mm (Diameter)	
SLEWING		
Slewing speed	2.1 min ⁻¹ {rpm}	
Tail slewing radius	4,100 mm	TRANSMISSION
HYDRAULIC SYSTEM	Pumps 2 variable piston pumps for crane	STEERING
	functions. Tandem gear pump for steering,	
	slewing and optional equipment.	
	Control valves	
	Multiple valves actuated by pilot pressure	
	with integral pressure relief valves.	SUSPENSION
	Reservoir	
	690 liters capacity. External sight level	TIRES
	gauge.	
	Oil Cooler Air cooled fan type.	FUEL TANK CAPAC
		LI UEL IAINK CAPAC

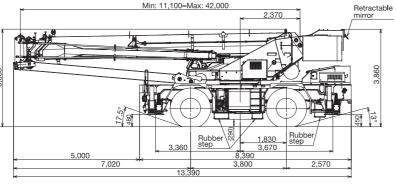
DIMENSIONS

TADANO Automatic	Following information is displayed.	
TADANO Automatic Moment Limiter (Model: AML-C)	Control lever lockout function with audible and visual pre-warning • Number of parts of line • Boom position indicator • Outrigger state indicator • Slewing angle • Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out • Potential lifting height • Ratio of actual load moment to rated load moment indication • Permissible load • Automatic Speed Reduction and Slow Stop function on slewing • Working condition register switch • Load radius / boom angle / tip height / slewing range preset function • External warning lamp • Tare function • Main hydraulic oil	
	pressure • Fuel consumption monitor • Main winch / auxiliary winch select • Drum rotation indicator (audible and visible type) main and auxiliary winch • On-rubber indicator	
OUTRIGGERS	4 hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab.	
Extension width	Maximum 7,000 mm, Middle 6,500 mm & 5,000 mm Minimum 2,480 mm, Float size (Diameter) 400 mm	
CARRIER	Rear engine, right-hand drive, driving axle 2-way selected type by manual switch. 4 x 2 front drive, 4 x 4 front and rear drive	
ENGINE	Model Mitsubishi 6M60-TL Type 4-cycle, turbo charged and after cooled. Piston displacement7.54 liters Bore x stroke118 mm x 115 mm Max. output 200 kW at 2,600 min ⁻¹ {rpm} Max. torgue 785 N-m at 1,400 min ⁻¹ {rpm}	
TRANSMISSION	Electronically controlled full automatic transmission.	
STEERING	Hydraulic power steering. 3 steering modes available: 2-wheel front, 4-wheel coordinated, 4-wheel crab	
SUSPENSION	Front Semi-elliptic leaf springs. Rear Semi-elliptic leaf springs.	
TIRES	Front 505/95R25, Single x 2 Rear 505/95R25, Single x 2	
FUEL TANK CAPACITY	300 liters	

WORKING RANGE







Dimensions are with boom angle at -1° unless otherwise specified.

Some specifications are subject to change

(mm)



Lifting your dreams

TADANO LTD. (International Sales Division) 4-12, Kamezawa 2-chome, Sumida-ku Tokyo 130-0014, Japan Phone: +81-3-3621-7750 Fax: +81-3-3621-7785 http://www.tadano.com/ E-mail: info@tadano.com







ROUGH TERRAIN CRANE

GR-500EXL



ROUGH TERRAIN CRANE GR-500EXL Right-hand drive

Compact carrier for rough terrain crane

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

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.





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**

Continous travel without a break Non-radial tire 30 minutes drive

Suspension

Front / Rear: Semi-elliptic leaf springs

Locking Differential

A locking differential assists operators on rough roads.



30 minutes drive

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.

Carrier Newly designed carrier provides improved driving performance.



* Hook retaining rope is optional

Fast traveling speed Max. traveling speed: 48km/h

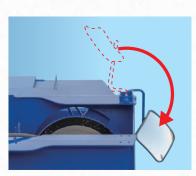
High performance engine

Increased engine durability.



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

Winch drum monitoring mirror Folding mirror reduces height during transport.



Crane

8.0 m / 12.7 m

Longest boom & largest class lifting capacity in its class!

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

Two telescoping modes I & I

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.



Under slung jib (side up type)

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



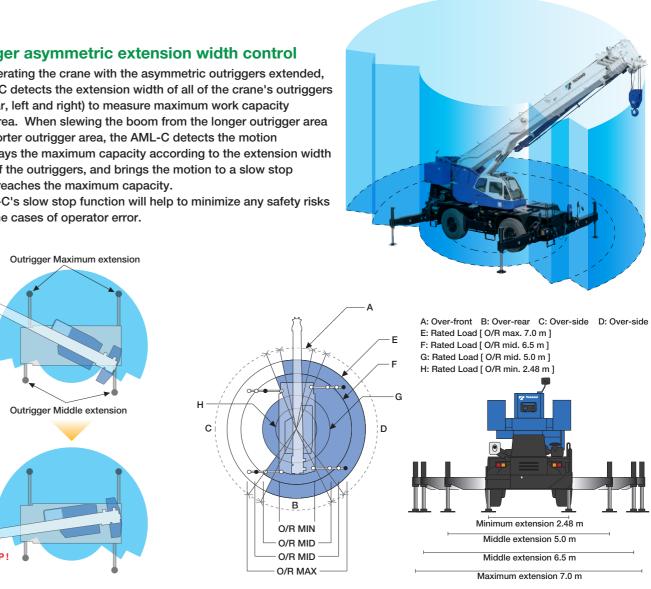
Automatic moment limiter [AML-C]



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.



1° — 80.5°

11.1 m - 42.0 m

Tadano's AML-C is easy to use, innovative in design, displays important information to the operator and enables the operator to 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.

warnings. When an operation approaches the load limit Tadano's slow stop function engages to avoid shock loads.



Operator comfort

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





Environmentally Friendly Features

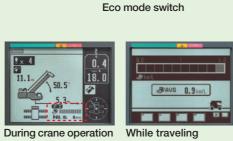
Eco Mode System

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

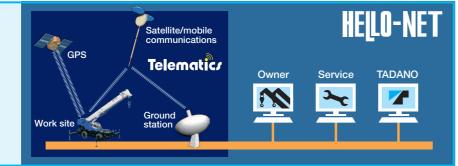
The Fuel Monitoring System constantly monitors fuel consumption on the AML screen. Checking this monitor enables you to prevent wasteful fuel consumption from unnecessary acceleration and idling.





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.

Standard Equipment





Tool storage compartment

Two winches with cable follower

Improved accessibility



Rear steps

Front steps

Right side steps





Front





Rear







Air conditioner Hot-water heater and air conditioning





Steps on the superstructure

Left side steps

Left

Right

* The hook retaining rope is optional