

GR-500EXL

GR-500EXS





GR-500EXS

GR-500EXL

Improved accessibility











Steps on the superstructure



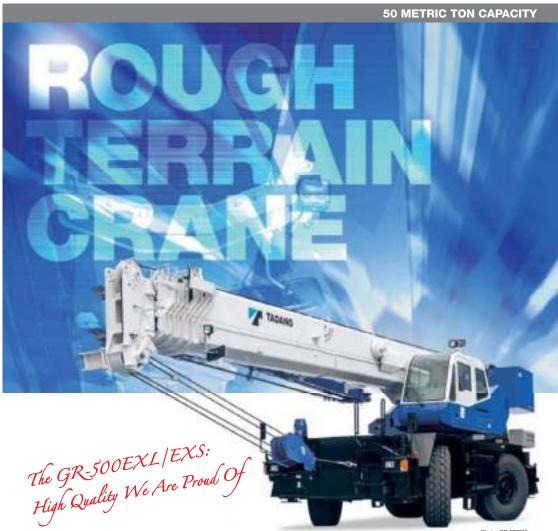


TADANO

Lifting your dreams

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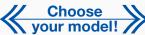




Same great carrier, two flexible options?

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-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]



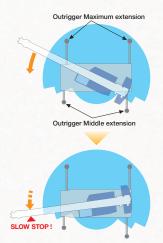
Tadano's AML-C is easy to use, innovative in design, displays important information to the operator and enables the operator and present hook load. These features allow the AML-C to move seamlessly through all lifting operations without visual warnings. When an operation approaches the load limit Tadano's slow stop function engages to avoid shock loads.

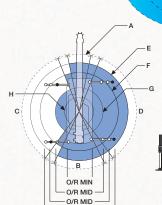


Outrigger asymmetric extension width control

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.





O/R MAX

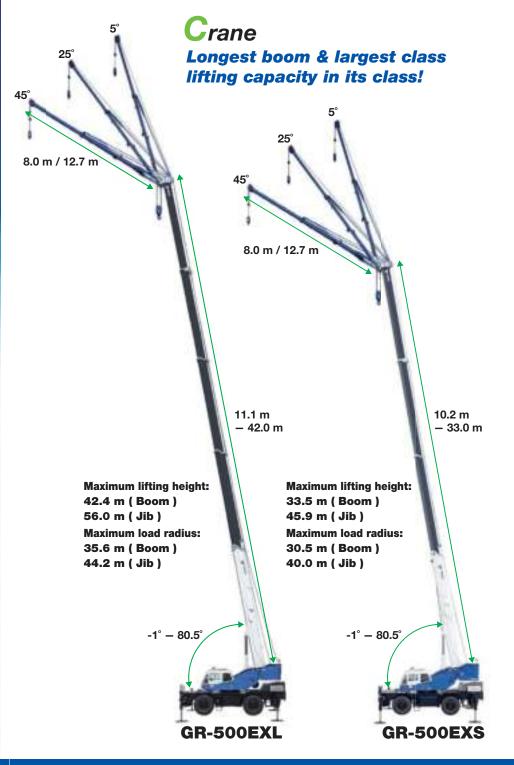


A: Over-front B: Over-rear C: Over-side D: Over-side E: Rated Load [O/R max. 7.0 m] F: Rated Load [O/R mid 6.5 m] G: Rated Load [O/R mid. 5.0 m]

Middle extension 6.5 m

Maximum extension 7.0 m

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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. Mode II is the synchronized extensions of This is followed by the synchronized extension the 3rd, 4th and 5th sections. of the 3rd, 4th, and 5th sections.

Mode Ⅱ

The 2nd section then extends independently





The finger control levers are smooth and responsible







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

Operator comfort



Under slung jib (side up type)

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





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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.





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,

system ions to

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.



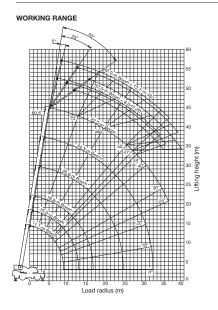


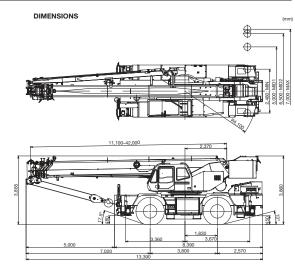


During crane operation While traveling

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GR-500EXL

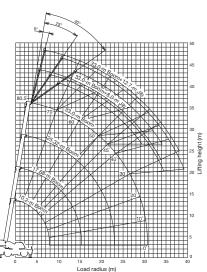


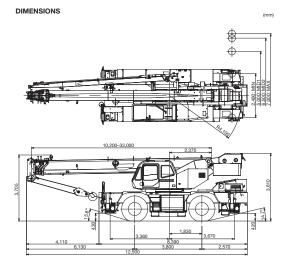


Dimensions are with boom angle at -1° unless otherwise specified.

GR-500EXS

WORKING RANGE





Dimensions are with boom angle at -1°.

SPECIFICATIONS

	GR-500EXL	GR-500EXS	
MAXIMUM CAPACITY	51,000 kg at 2.5 m (50,000 kg at 3.0 m)	50,000 kg at 2.5 m (47,400 kg at 3.0 m)	
PERFORMANCE	5 1,555 ng at 2.5 m (55,500 ng at 5.6 m)	55,555 ng at 2.5 iii (47,400 ng at 6.6 iii)	
Max. traveling speed	48 km/h	44 km/h	
Gradeability (tan θ)	65% (at stall), 30%*	92% (at stall), 30%*	
Gradeability (tail())	* Machine should be operated within limit of engine	* Machine should be operated within limit of engine	
	crackcase design. (17°: Mitsubishi 6M60-TL)	crackcase design. (17°: Mitsubishi 6M60-TL)	
WEIGHT		Graditatio accign. (17 : Introduction office 12)	
Gross vehicle mass	38,480 kg (incl. 51 ton hook block)	33,540 kg (incl. 50 ton hook block)	
-front axle	18,910 kg	15,550 kg	
-rear axle	19,570 kg	17,990 kg	
MIN. TURNING RADIUS	10.3 m (2-wheel steering), 6.0 m (4-wheel steering)	11,555 kg	
	(at center of extreme outer tire)		
BOOM	5-section full power synchronized telescoping boom.	4-section full power synchronized telescoping boom.	
Fully retracted length	11.1 m	10.2 m	
Fully extended length	42.0 m	33.0 m	
Extension speed	30.9 m in 150 s	22.8 m in 88 s	
Angle	-1°-80.5°	-1°-80.5°	
Elevation speed	20° to 60° in 30 s	20° to 60° in 30 s	
JIB	2-staged jib with triple offset (tilt type).	20 10 00 11 30 3	
JID .	Single sheave at jib head.		
Offset	5°, 25°, 45°		
Length	5, 25, 45 8.0 m and 12.7 m		
MAIN WINCH	Variable speed type with grooved drum driven by	Variable speed type with greeved drum driven by	
VIAIN WINCH		Variable speed type with grooved drum driven by	
Single line pull	hydraulic axial piston motor through speed reducer.	hydraulic axial piston motor through speed reducer.	
	44.1 kN (4,500 kgf)	44.1 kN (4,500 kgf)	
Single line speed Wire rope	132 m/min. (at 4th layer)	132 m/min. (at 4th layer)	
	16 mm x 225 m (Diameter x length)	16 mm x 182 m (Diameter x length)	
AUXILIARY WINCH	Variable speed type with grooved drum driven by	Variable speed type with grooved drum driven by	
	hydraulic axial piston motor through speed reducer.	hydraulic axial piston motor through speed reducer.	
Single line pull	44.1 kN (4,500 kgf)	44.1 kN (4,500 kgf)	
Single line speed	124 m/min. (at 3rd layer)	124 m/min. (at 3rd layer)	
Wire rope	16 mm x 117 m (Diameter x length)	16 mm x 100 m (Diameter x length)	
SLEWING			
Slewing speed	2.1 min ⁻¹ {rpm}	2.7 min ⁻¹ {rpm}	
Tail slewing radius	4,100 mm	4,100 mm	
HYDRAULIC SYSTEM	Pumps 2 variable piston pumps for crane functions. Tanden	n 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.		
TADANO Automatic	Following information is displayed.		
Moment Limiter	Control lever lockout function with audible and visual pre-warning Number of parts of line		
(Model: AML-C)	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 for slewing Working condition register switch		
	Load radius / boom angle / tip height / slewing range preset function		
	Main hydraulic oil pressure • Fuel consumption monitor • Main winch / auxiliarly 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	Max 7,000 mm, Mid 6,500 mm & 5,000 mm		
Extension wat	Min 2,480 mm, Float size (Diameter) 400 mm		
CARRIER	Rear engine, left-hand drive, driving axle 2-way selected type	by manual switch	
SA II IIEI I	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.		
	iype 4-cycle, turbo charged and aπer cooled. Piston displacement 7.54 liters		
	Piston displacement 7.54 liters Bore x stroke118 mm x 115 mm		
	Max. output 200 kW at 2,600 min ⁻¹ {rpm}		
		max. orque ros n-m at 1,400 mm · (pm) Floatropelly controlled full utematic transmission	
TDANICALICAL	Max. torque 785 N-m at 1,400 min ⁻¹ {rpm}		
	Max. torque 785 N-m at 1,400 min ⁻¹ {rpm} Electronically controlled full automatic transmission.		
TRANSMISSION STEERING	Max. torque 785 N-m at 1,400 min ⁻¹ {rpm} Electronically controlled full automatic transmission. Hydraulic power steering.		
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	Max. torque 785 N-m at 1,400 min ⁻¹ {rpm} Electronically controlled full automatic transmission. Hydraulic power steering. 3 steering modes available: 2-wheel front,		
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STEERING	Max. torque 785 N-m at 1,400 min ⁻¹ (rpm) Electronically controlled full automatic transmission. Hydraulic power steering. 3 steering modes available: 2-wheel front, 4-wheel coordinated, 4-wheel crab		
STEERING	Max. torque 785 N-m at 1,400 min ⁻¹ (rpm) Electronically controlled full automatic transmission. Hydraulic power steering. 3 steering modes available: 2-wheel front, 4-wheel coordinated, 4-wheel crab Front Rigid mounted to frame.		
STEERING	Max. torque 785 N-m at 1,400 min ⁻¹ {rpm} Electronically controlled full automatic transmission. Hydraulic power steering. 3 steering modes available: 2-wheel front, 4-wheel coordinated, 4-wheel crab Front Rigid mounted to frame. Rear Semi-elliptic leaf springs.		
STEERING	Max. torque 785 N-m at 1,400 min ⁻¹ (rpm) Electronically controlled full automatic transmission. Hydraulic power steering. 3 steering modes available: 2-wheel front, 4-wheel coordinated, 4-wheel crab Front Rigid mounted to frame.	Front 445/95R25, Single x 2 Rear 445/95R25, Single x 2	

Note: Some specifications are subject to change