



Lifting your dreams

ROUGH TERRAIN CRANE



GR-550XLL



GR-550XLS

Improved accessibility



Front steps



Rear steps



Left side steps



Right side steps



Steps on the superstructure



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



GR-550XLL/550XLS-3-ESA-16-2-01-63-516-A
Printed in Japan

*The GR-550XLL/XLS:
High Quality We Are Proud Of*



Photo: GR-550XLL

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

« Choose
your model! »

GR-550XLL

GR-550XLS

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-550XLL and the GR-550XLS, 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.

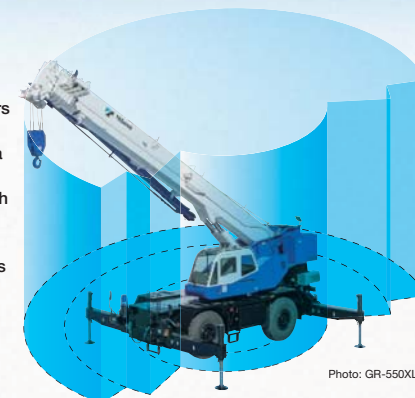
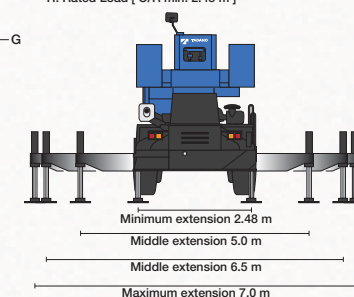
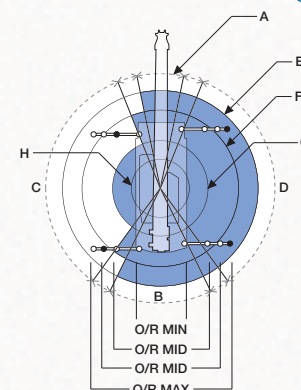
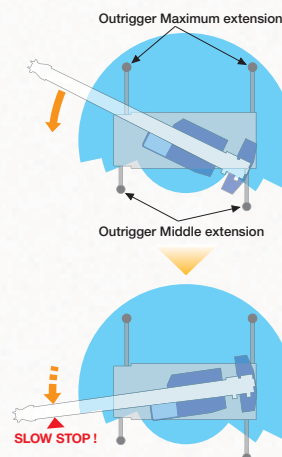
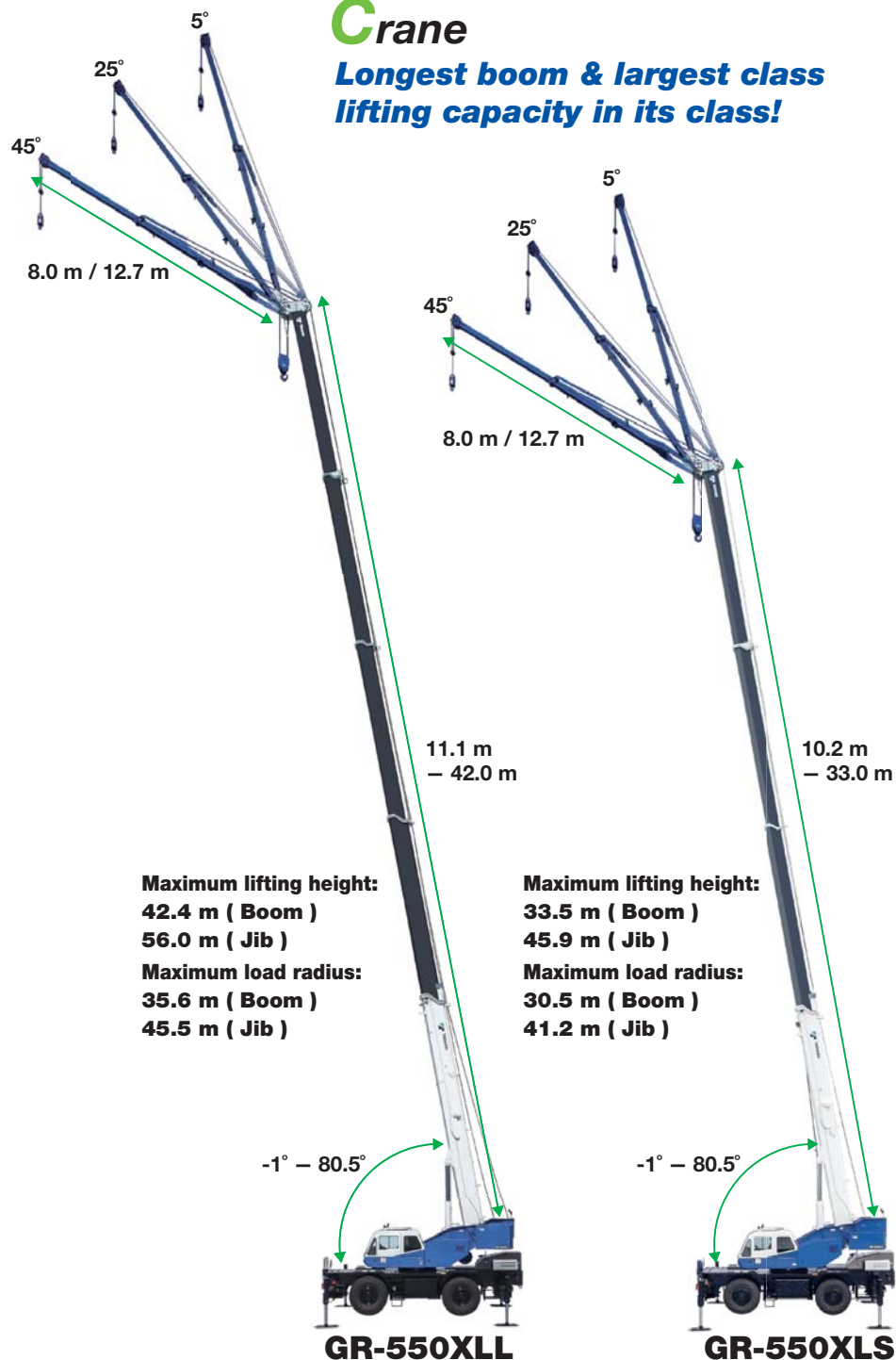


Photo: GR-550XLL



Crane

Longest boom & largest class lifting capacity in its class!



Two telescoping modes I & II (GR-550XLL)

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.



Two winches with cable follower

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



Under slung jib (side up type)

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

Jib installation



Photo: GR-550XLL

Carrier

Newly designed carrier provides improved driving performance.



Photo: GR-550XLS

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-550XLL: 505/95R25, GR-550XLS: 445/95R25)

Radial tires have been adopted to extend continuous travel time.

Radial tire

Continuous 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-550XLL)
44 km/h (GR-550XLS)

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-550XLL

Overall length: approx. 13,390 mm

Overall width : approx. 2,960 mm

Overall height: approx. 3,860 mm

GR-550XLS

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

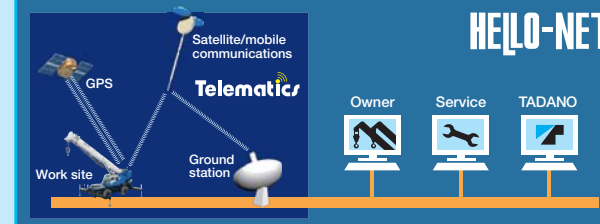
Folding mirror reduces height during transport.



Photo: GR-550XLS

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

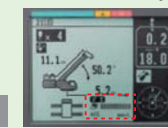
Eco Mode System

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

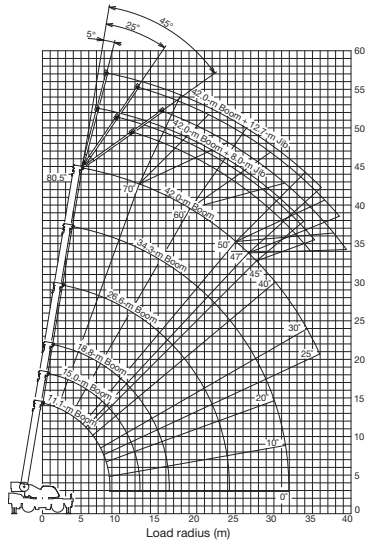


While traveling

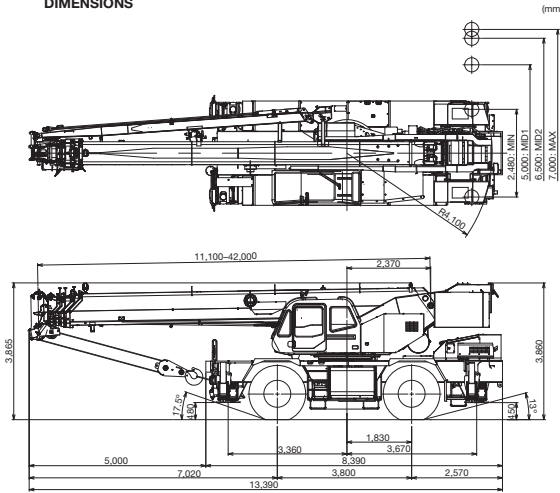
WORKING RANGE & DIMENSIONS

GR-550XLL

WORKING RANGE



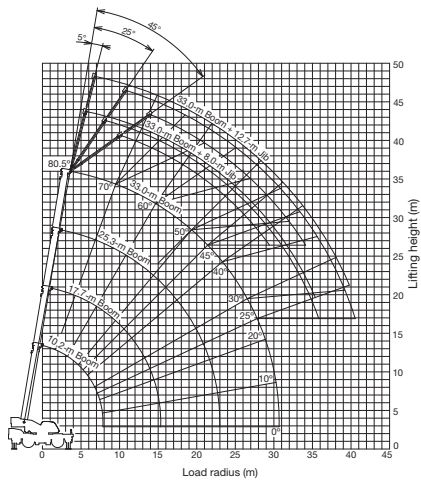
DIMENSIONS



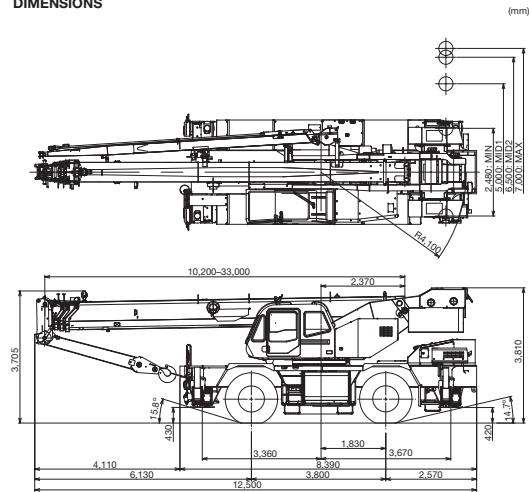
Dimensions are with boom angle at -1° unless otherwise specified.

GR-550XLS

WORKING RANGE



DIMENSIONS



Dimensions are with boom angle at -1°.

SPECIFICATIONS

	GR-550XLL	GR-550XLS
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	48 km/h 65% (at stall), 30%* * Machine should be operated within limit of engine crackcase design. (17": Mitsubishi 6M60-TL)	44 km/h 92% (at stall), 30%* * Machine should be operated within limit of engine crackcase design. (17": Mitsubishi 6M60-TL)
WEIGHT	Gross vehicle mass -front axle -rear axle	33,540 kg (incl. 50 ton hook block) 15,550 kg 17,990 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 Fully extended length Extension speed Angle Elevation speed	4-section full power synchronized telescoping boom. 10.2 m 33.0 m 22.8 m in 88 s -1°-80.5° 20° to 60° in 30 s
JIB	2-staged jib with triple offset (tilt type). Single sheave at jib head. Offset Length	
MAIN WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Single line pull Single line speed Wire rope	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. 44.1 kN (4,500 kgf) 132 m/min. (at 4th layer) 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 Single line speed Wire rope	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. 44.1 kN (4,500 kgf) 124 m/min. (at 3rd layer) 16 mm x 117 m (Diameter x length)
SLEWING	Slewing speed Tail slewing radius	2.1 min ⁻¹ (rpm) 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.	
TADANO Automatic Moment Limiter (Model: AML-C)	Following information is displayed. • 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 for 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 Max. ... 7,000 mm, Mid. ... 6,500 mm & 5,000 mm Min. ... 2,480 mm, Float size (Diameter)... 400 mm	
CARRIER	Rear engine, left-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 displacement... 7.54 liters Bore x stroke... 118 mm x 115 mm Max. output... 200 kW at 2,600 min ⁻¹ (rpm) Max. torque... 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..... Rigid mounted to frame. Rear..... Semi-elliptic leaf springs.	
TIRES	Front..... 505/95R25, Single x 2 Rear..... 505/95R25, Single x 2	Front..... 445/95R25, Single x 2 Rear..... 445/95R25, Single x 2
FUEL TANK CAPACITY	300 liters	

Note: Some specifications are subject to change.