GR-550XLL
51 METRIC TON CAPACITY

GR-550XLS
50 METRIC TON CAPACITY

Improved accessibility

Front steps
Rear steps
Left side steps
Right side steps

Steps on the superstructure

The GR-550XLL/XLS: High Quality We Are Proud Of
Same great carrier, two flexible options!

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.

Choose your model!

GR-550XLL
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

GR-550XLS
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

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.

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.

Outrigger Maximum extension
Outrigger Middle extension

Outrigger asymmetric extension width control

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 min. 5.0 m
H: Rated Load | O/R min. 2.48 m

Middle extension 0.0 m
Middle extension 0.5 m
Middle extension 1.5 m

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 extensions 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.

Jib installation

-1° - 80.5°

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 responsible to the operators touch.

Under slung jib (side up type)
A two-stage, under slung jib makes installation in narrow spaces possible.

Jib installation

1. Jib installation
2. Jib installation
3. Operator comfort
4. Operator comfort
5. Two telescoping modes I & II (GR-550XLL)
6. Two telescoping modes I & II (GR-550XLL)

Maximum lifting height:
42.4 m (Boom)
56.0 m (Jib)

Maximum load radius:
35.6 m (Boom)
45.5 m (Jib)

Maximum lifting height:
33.5 m (Boom)
45.9 m (Jib)

Maximum load radius:
30.5 m (Boom)
41.2 m (Jib)
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 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)

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

Locking Differential
A locking differential assists operators on rough roads.

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)

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.

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.

Eco Mode System

HELLO-NET System

Environmentally Friendly Features
### GR-550XLL

#### WORKING RANGE & DIMENSIONS

**GR-550XLL**

**Dimensions** (mm)

- **Gross vehicle mass**
  - 48 km/h: 36,480 kg (incl. 51 ton hook block)
  - 50 km/h: 33,540 kg (incl. 50 ton hook block)
  - 60 km/h: 25,380 kg

- **Load radius**
  - 42.0-m Boom + 12.7-m Jib: 44.1 m
  - 33.0-m Boom + 12.7-m Jib: 33.0 m

- **Elevation speed**
  - 42.0-m Boom: 2,370 m/min
  - 33.0-m Boom: 1,830 m/min

- **Extension speed**
  - 42.0-m Boom: 44.1 kN (4,500 kgf)
  - 33.0-m Boom: 8,390 kN (87,600 kgf)

- **Load moment**
  - 42.0-m Boom: 3,360 kN.m (34,170 kgf.m)
  - 33.0-m Boom: 13,390 kN.m (139,460 kgf.m)

- **Load capacity**
  - 42.0-m Boom: 19,570 kg
  - 33.0-m Boom: 17,990 kg

- **Outriggers**
  - 4 x 2 front drive, 4 x 4 front and rear drive

#### SPECIFICATIONS

**GR-550XLL**

**Performance**

- Max. traveling speed: 48 km/h
- Gradeability (fan μ): 65% (at 20°), 30%*
- Machine should be operated within limit of engine (17° Mitsubishi 6M60-TL)

**Weight**

- Gross vehicle mass:
  - -1°: 36,480 kg (incl. 51 ton hook block)
  - 0°: 16,970 kg
  - 5°: 19,570 kg

- Load capacity:
  - -1°: 18,910 kg
  - 0°: 15,550 kg
  - 5°: 17,990 kg

**Dimensions**

- Max. turn radius: 10.3 m (at center of extreme outer line)

**Boom**

- Extension width:
  - Front: 445/95R25, Single x 2
  - Rear: 445/95R25, Single x 2

**SUSPENSION**

- Front: Leg mounted to frame
- Rear: Semi-elliptic leaf springs

**TIRES**

- Front: 12.00R24 *
- Rear: 11.00R24 *

**FUEL TANK CAPACITY**

- 320 liters

**Note:** Some specifications are subject to change.

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### GR-550XLS

#### WORKING RANGE & DIMENSIONS

**GR-550XLS**

**Dimensions** (mm)

- **Gross vehicle mass**
  - 48 km/h: 50,000 kg (47,400 kg at 3.0 m)

- **Load radius**
  - 33.0-m Boom + 12.7-m Jib: 33.0 m

- **Elevation speed**
  - 42.0-m Boom: 2,370 m/min
  - 33.0-m Boom: 1,830 m/min

- **Extension speed**
  - 42.0-m Boom: 44.1 kN (4,500 kgf)
  - 33.0-m Boom: 8,390 kN (87,600 kgf)

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