Improved accessibility

Front steps  Rear steps  Left side steps  Right side steps

Steps on the superstructure

GR-500EXL

GR-500EXS

50 METRIC TON CAPACITY

51 METRIC TON CAPACITY

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The GR-500EXL/EXS: High Quality We Are Proud Of
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.

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.
Crane

Longest boom & largest class lifting capacity in its class!

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

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

GR-500EXL

- 1° – 80.5°

Maximum lifting height:
42.4 m (Boom)
56.0 m (Jib)
Maximum load radius:
35.6 m (Boom)
44.2 m (Jib)

GR-500EXS

- 1° – 80.5°

Maximum lifting height:
33.5 m (Boom)
45.9 m (Jib)
Maximum load radius:
30.5 m (Boom)
40.0 m (Jib)

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

1. Jib installation
2. Truck position
3. Boom extension
4. Boom extensions
5. Jib installation

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. 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.

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

Photo: GR-500EXL

Photo: GR-500EXS

Photo: GR-500EXL

The round hexagonal box boom

GR-500EXL/EXS

Maximum lifting height:
42.4 m (Boom)
56.0 m (Jib)
Maximum load radius:
35.6 m (Boom)
44.2 m (Jib)

Maximum lifting height:
33.5 m (Boom)
45.9 m (Jib)
Maximum load radius:
30.5 m (Boom)
40.0 m (Jib)
**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**
Radial tires have been adopted to extend continuous travel time.

**Radial tire**
Radial tires have been adopted to extend continuous travel time.

**Non-radial tire**
Continous travel without a break

**Fast traveling speed**
Max. traveling speed: 48 km/h (GR-500EXL)

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

**Locking Differential**
A locking differential assists operators on rough roads.

**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

**New Design**
**Compact carrier for rough terrain crane**

**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.

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

**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.

**Environmentally Friendly Features**

**HELLO-NET**
Note: HELLO-NET availability varies by situation. For detail, please contact your distributor or our sales staff in charge.

**Compact carrier for rough terrain crane**

**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.

**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)
**GR-500EXL**

**WORKING RANGE & DIMENSIONS**

- **Dimensions**: With boom angle at -1° unless otherwise specified.

**SPECIFICATIONS**

**GR-500EXL**

- **Max. traveling speed**: 48 km/h
- **Gradeability (tan θ)**: 65% (at stall), 30%*  
  *Machine should be operated within limit of engine crackcase design (17˚ Mitsubishi 6M60-TL)
- **Maximum capacity**: 
  - 36,480 kg (incl. 51 ton hook block)
  - 16,970 kg
  - 15,970 kg
- **MIN. TURNING RADIUS**: 10.3 m (2-wheel steering), 6.0 m (all-wheel steering)

**GR-500EXS**

- **Max. traveling speed**: 48 km/h
- **Gradeability (tan θ)**: 65% (at stall), 30%*  
  *Machine should be operated within limit of engine crackcase design (17˚ Mitsubishi 6M60-TL)
- **Maximum capacity**: 
  - 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 (all-wheel steering)

**WORKING RANGE & DIMENSIONS**

- **Dimensions**: With boom angle at -1°.