GR-500EXS

Crane capacity
50,000 kg at 2.5 m

4-section long boom
10.2 m–33.0 m

2-staged jib
8.0 m/12.7 m

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

Maximum load radius
30.5 m (Boom)
40.0 m (Jib)
# SPECIFICATIONS

## MODEL: GR-500EXS

### MAXIMUM CAPACITY
- 50,000 kg at 2.5 m

### PERFORMANCE
- **Max. traveling speed** 44 km/h
- **Gradeability (tan δ)** 92% (at stall), 30%*
  * Machine should be operated within limit of engine crackcase design. (17: Mitsubishi 6M60-TL)

### WEIGHT
- **Gross vehicle mass**
  - **-front axle**: 33,540 kg (incl. 50 ton hook block)
  - **-rear axle**: 15,550 kg
  - **Total**: 49,090 kg
- **Min. turning radius**
  - **-rear axle**: 10.3 m (2-wheel steering), 6.0 m (4-wheel steering)
  - **-front axle**: 15.5 m (2-wheel steering), 9.9 m (4-wheel steering)

## AUXILIARY WINCH
- **Main and auxiliary winch** (at center of extreme outer tire)
- **Elevation speed** 8.0 m and 12.7 m
- **Angle** 5°, 25°, 45°
- **Extension speed** -1º–80.5º

## BOOM
- **Fully retracted length**
  - **33.0 m (Diameter x length)**
  - **Single line speed** 20° to 60° in 30 s
  - **Single line pull** 44.1 kN (4,500 kgf)
- **Fully extended length**
  - **10.2 m (Diameter x length)**
  - **Single line speed** 132 m/min. (at 3rd layer)
  - **Single line pull** 44.1 kN (4,500 kgf)
- **4-section full power synchronized telescoping boom**
- **Load radius (m)**
  - **5°, 25°, 45°**
  - **Extension width** 8.0 m and 12.7 m

## HYDRAULIC SYSTEM
- **Reservoir** 690 liters capacity. External sight level
- **Control valves** Multiple valves actuated by pilot pressure with integral pressure relief valves.
- **Pumps** 2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and equipment.
- **Oil Cooler** Air cooled fan type.

## FUEL TANK CAPACITY
- **300 liters**

## TRANSMISSION
- **Max. output** 200 kW at 2,600 min-1 {rpm}
- **Bore x stroke** 118 mm x 115 mm
- **Piston displacement** 7.54 liters
- **Type** 4-cycle, turbo charged and after cooled.

## TIRES
- **Rear** Semi-elliptic leaf springs.
- **Front** Rigid mounted to frame.
- **4-staging tires** Incl. 50 ton hook block.
- **Max. torque** 785 kNm at 1,400 min-1 (rpm)

## THERMAL SYSTEM
- **Engine** Mitsubishi 6M60-TL
- **Model** AML-C
- **Transmission** Electronically controlled full automatic transmission.

## DIMENSIONS
- **Dimensions are with boom angle at -1°.**

## OUTRIGGERS
- **Extension width** 10.3 m (2-wheel steering), 6.0 m (4-wheel steering)
- **Min. ... 2,480 mm, Float size (Diameter)... 400 mm
- **Max. ... 7,000 mm, Mid. ... 6,500 mm & 5,000 mm
- **4 hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab.

## DIMENSIONS
- **Dimensions are with boom angle at -1°.**

## Note:
- Some specifications are subject to change.

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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

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