

Provisional

GR-500EXL

(Right-hand steering)

Crane capacity :

51,000 kg at 2.5 m
(50,000 kg at 3.0 m)

5-section long boom :

11.1 m–42.0 m

2-staged telescopic jib :

8.0 m/12.7 m

Maximum lifting height :

42.4 m (Boom)

56.0 m (Jib)

Maximum load radius :

35.6 m (Boom)

44.2 m (Jib)



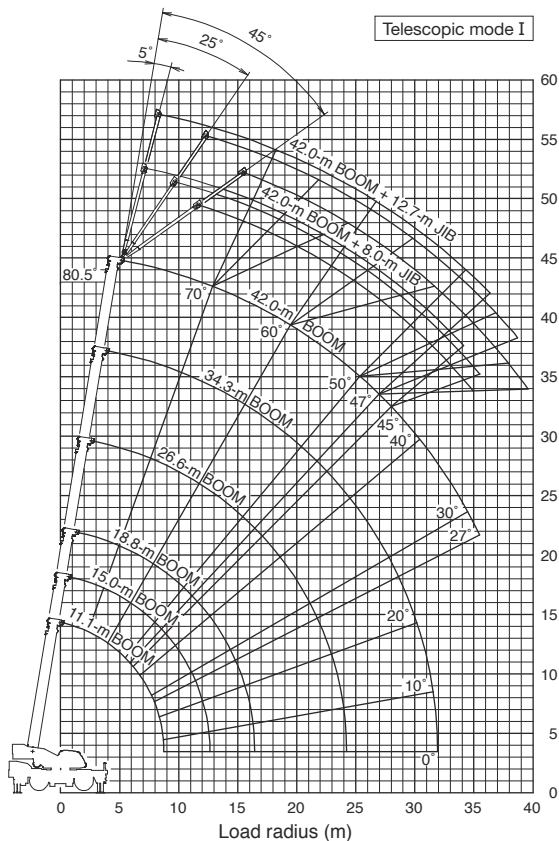
MODEL : GR-500EXL (Right-hand steering)

SPECIFICATIONS

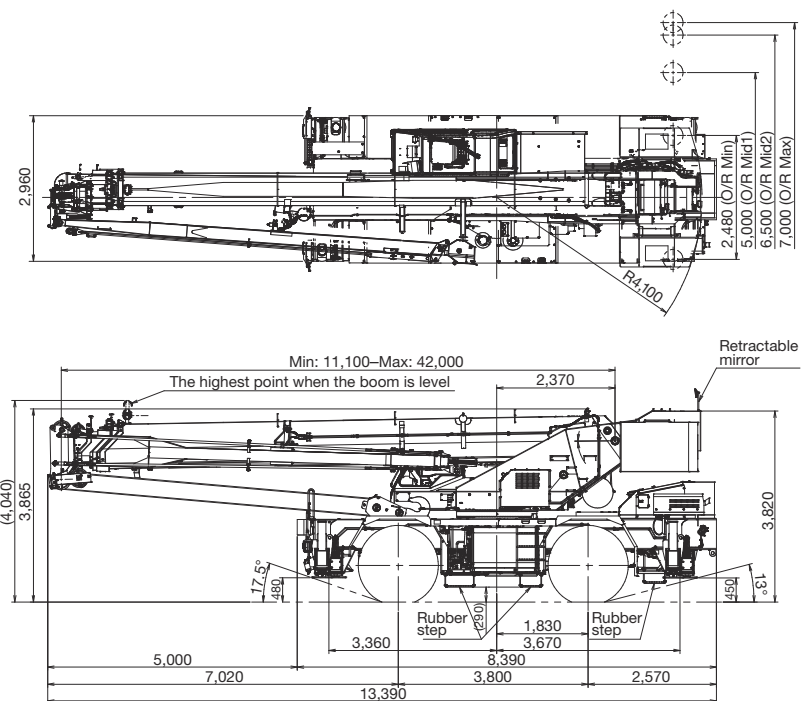
MAXIMUM CAPACITY	51,000 kg at 2.5 m (50,000 kg at 3.0 m)
PERFORMANCE	
Max. traveling speed	48 km/h
Gradeability (tan θ)	65% (at stall) 30%*
	* Machine should be operated within the limit of engine crackcase design. (17°: Mitsubishi 6M60-TL)
WEIGHT Gross vehicle mass	38,300 kg
-front axle	18,500 kg
-rear axle	19,800 kg
MIN. TURNING RADIUS	10.7 m (2-wheel steering), 6.3 m (4-wheel steering) (at center of extreme outer tire)
BOOM	5-section full power telescoping boom.
Fully retracted length	11.1 m
Fully extended length	42.0 m
Extension speed	30.9 m in 146 s
Elevation speed	20° to 60° in 30 s
JIB	2-staged telescopic boom extension. Triple offset (5°/25°/45°) type. Stows alongside base boom section. Single sheave at jib head.
Length	8.0 m and 12.7 m
MAIN WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor.
Single line pull	44.1 kN {4,500 kgf}
Single line speed	132 m/min. (at the 4th layer)
Wire rope	16 mm (Diameter)
AUXILIARY WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor.
Single line pull	44.1 kN {4,500 kgf}
Single line speed	124 m/min. (at the 3rd layer)
Wire rope	16 mm (Diameter)
SLEWING SPEED	2.1 min ⁻¹ {rpm}
Tail slewing radius	4,100 mm
HYDRAULIC SYSTEM	Pumps... 2 variable piston pumps for telescoping, elevating and winches. Tandem gear pump for steering, slewing and optional equipment. Control valves.... Multiple valves actuated by pilot pressure with integral pressure relief valves. Circuit... Equipped with air cooled type oil cooler. Oil pressure appears on AML display for main circuit. Hydraulic oil tank capacity.... approx. 690 liters

TADANO Automatic Moment Limiter (Model: AML-C)	Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions before overload. It also has the limit function of working range (load radius and/or boom angle and/or tip height and/or slewing range) . Automatic speed reduction and slow stop function for slewing. Following information is displayed. · Moment load in percentage · Number of parts of line · Boom angle · Boom length · Load radius · Outrigger position · On-rubber indicator · Actual hook load · Permissible load · Boom position indicator · Potential lifting height · Slewing angle · Main hydraulic oil pressure · Jib length and jib offset angle (only during jib operation)
OUTRIGGERS	Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab. Equipped with extension width detector for each outrigger. Maximum... 7,000 mm, Middle... 6,500 mm & 5,000 mm Minimum... 2,480 mm, Float size (Diameter)... 400 mm
CARRIER	Rear engine, Right-hand steering, 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, 6 cylinder in-line, direct injection, water cooled diesel engine. Piston displacement... 7,545 cm ³ 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..... Semi-elliptic leaf springs. Rear..... Semi-elliptic leaf springs.
TIRES	Front..... 505/95R25, Single x 2 Rear..... 505/95R25, Single x 2
FUEL TANK CAPACITY	300 liters

WORKING RANGE



DIMENSION



Dimension is with boom angle at -1° unless otherwise specified.

Some specifications are subject to change



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