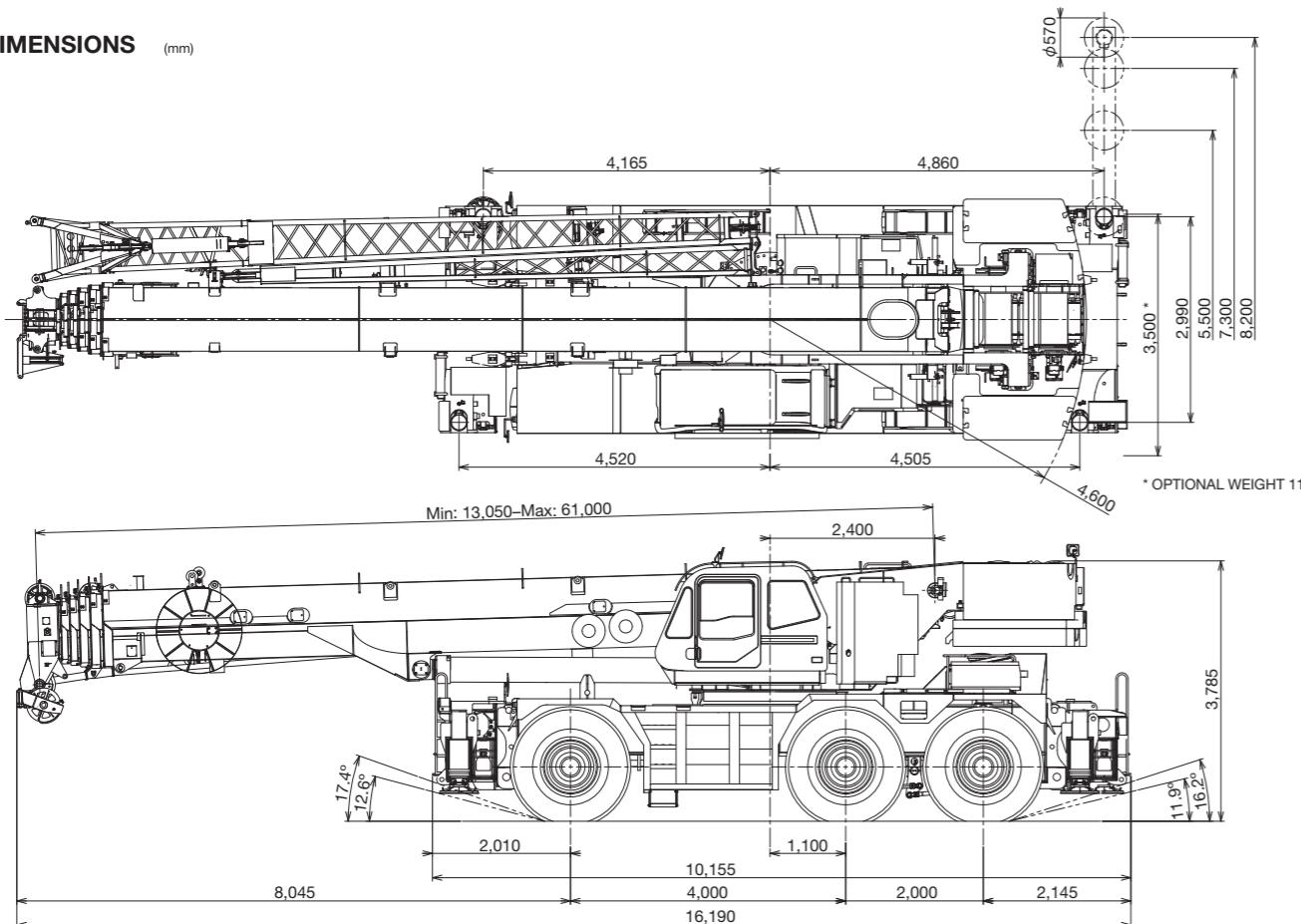


DIMENSIONS (mm)



 **TADANO**

ROUGH TERRAIN CRANE

GR-1450EX

145 METRIC TON CAPACITY



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Reaching new  heights

 **TADANO**





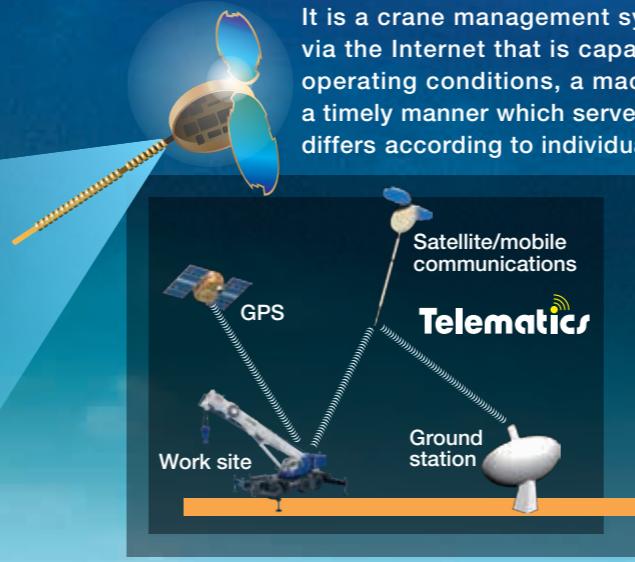
The world's largest rough terrain crane just got better!

Introducing a brand-new option for Tadano's rough terrain crane with the highest lifting capacity in class worldwide! Get more done than ever before with our new heavy lift jib. Where previous generations of cranes would be limited, the GR-1450EX can lift higher and heavier loads with this addition. We are also now offering an insert lattice jib, which is a flexible option for operating at height in large facilities such as refineries or petrochemical factories. These new items were designed to maximize work efficiency and expand your abilities. The GR-1450EX never stops evolving.

Crane capacity: 145,000 kg at 2.5 m
6-section long boom: 13.1 m - 61.0 m
2-staged bi-fold jib (option): 10.3 m / 18.0 m
Insert jib (option): 7.0 m (1 pce.)
14.0 m (2 pcs.)
Short jib (option): 3.6 m

Plenty of new functions incorporated!

HELLO-NET



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

HELLO-NET



Eco mode

The system controls the maximum engine speed during crane operation. In addition, due to curbing an unnecessary rise in the engine speed that occurs when accelerated to excess, the system enables CO₂ emissions and fuel consumption to decrease by max. 13 % with Eco mode 1 employed, and max. 21 % when Eco mode 2 is applied. In addition, it realizes a low level of noise.



Positive control

The system effectively controls the quantity of hydraulic pump discharge at the time of crane operation in response to the amount of movement applied by the operating lever. Additionally, it keeps the quantity of hydraulic pump discharge to a minimum, reducing CO₂ emissions and fuel consumption by up to 20 %.



Fuel monitoring

The system constantly monitors and displays fuel consuming conditions on the AML screen. Checking the indicator enables you to prevent wasteful acceleration and wasteful standby.

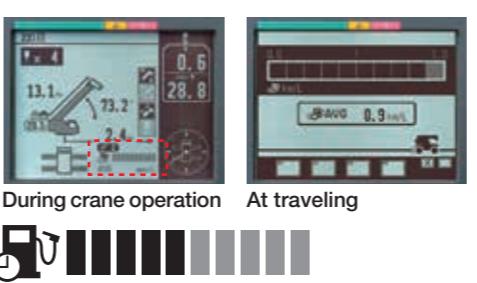


Photo: Hydraulic offset jib (option)

Automatic moment limiter [AML-C]



Tadano's new AML-C is easy to use. It allows the operator to simultaneously monitor: boom angle, boom length, operating pressure of the elevating cylinder, the extension width of outriggers, slewing position, rated lifting capacity and present hook load. All of this enables the AML-C to move easily through lifting capacity changes without changing configurations and codes to make a lift.

The AML-C provides both audio and visual warnings when a condition exists that will overload the crane and automatically employs our slow stop function to avoid shock loads.

The AML-C with "OPERATOR" pre-set working range limits and automatic slow stop functions will assist the operator to deliver safe and smooth operations for years to come.



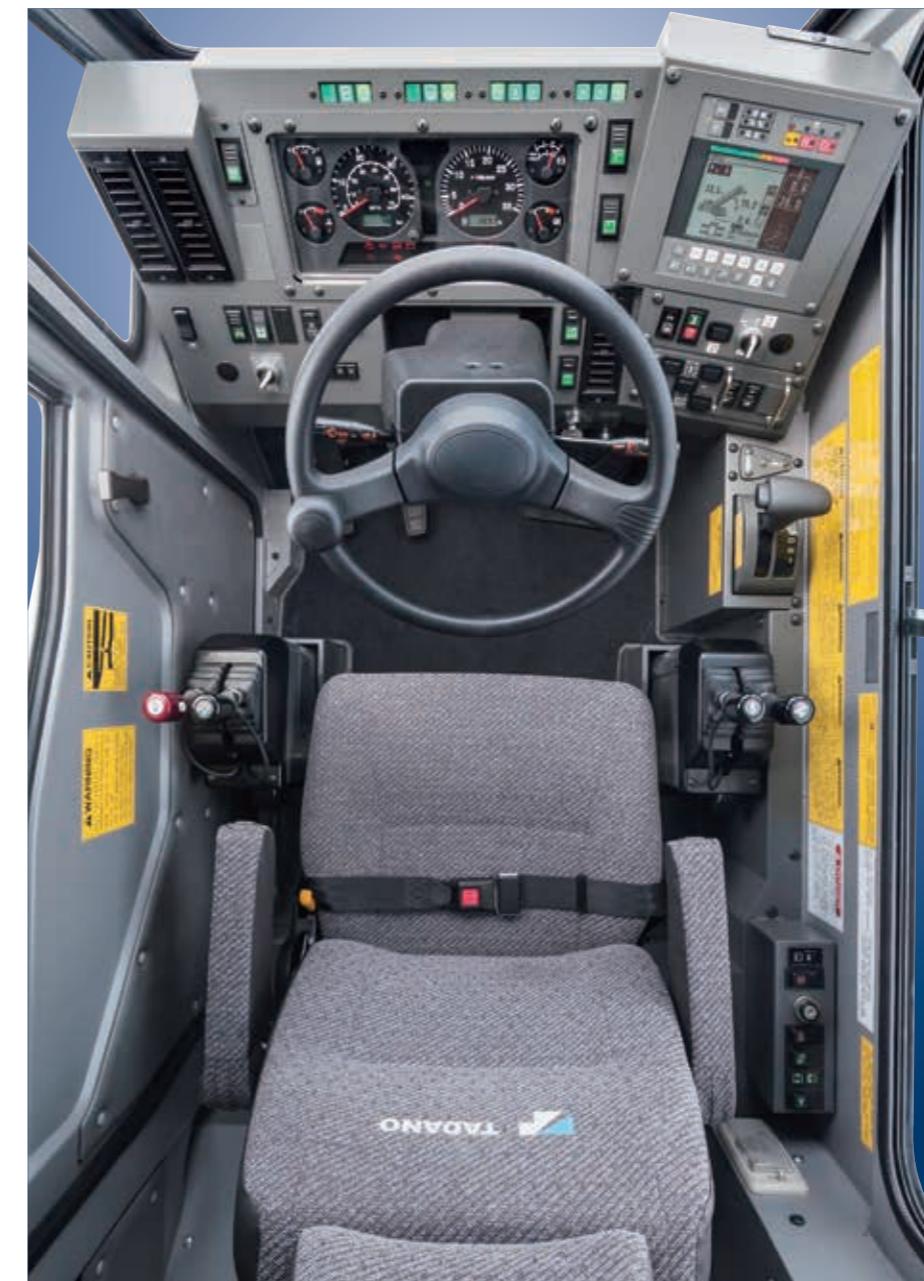
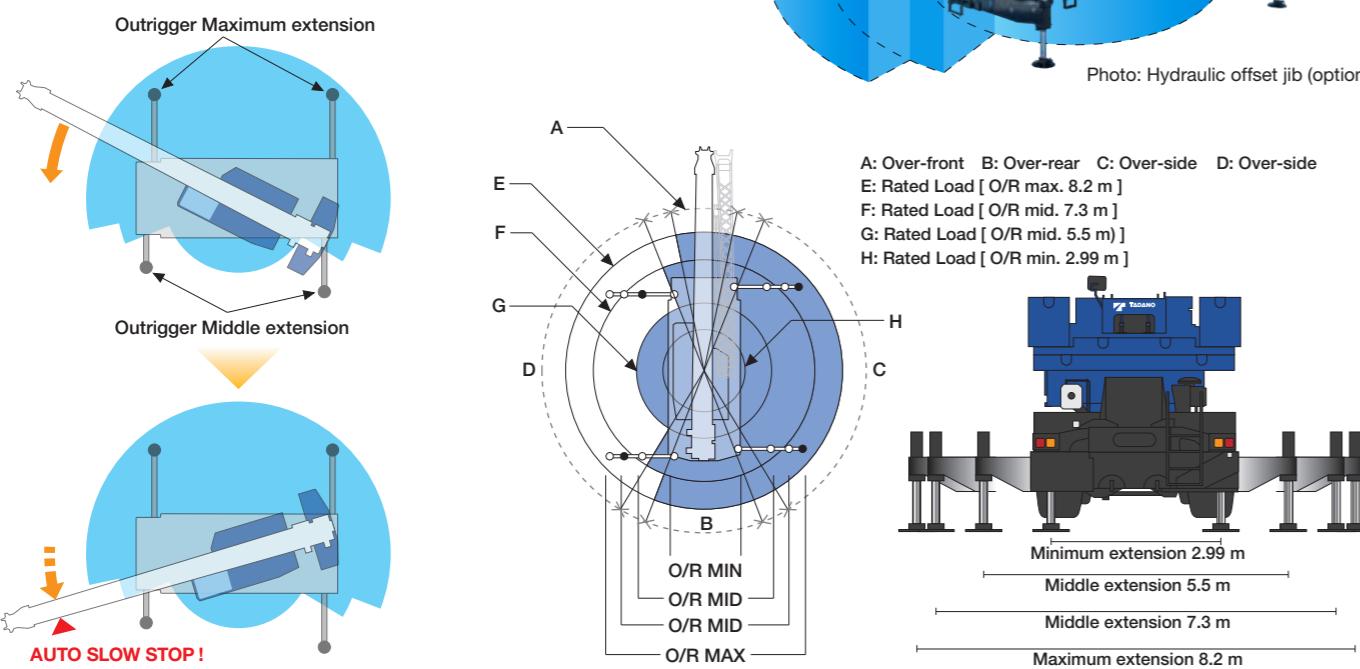
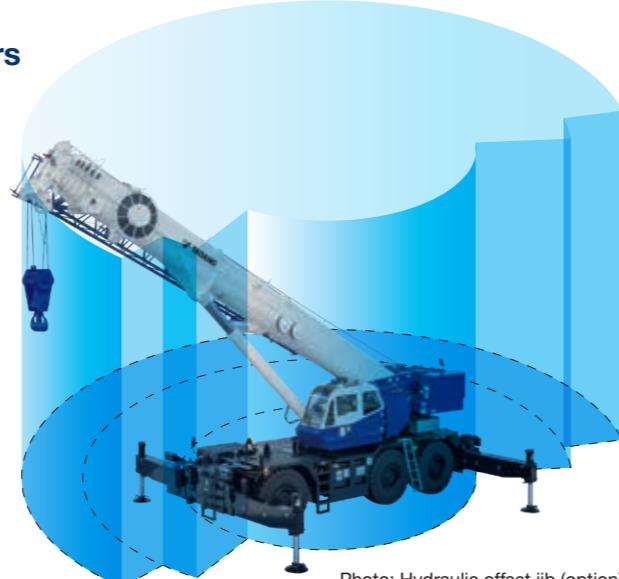
AML lamp

Control of asymmetric extension width of outriggers

When operating the crane with the asymmetric outriggers extended, the AML-C automatically detects the extension width of outriggers at the front and rear, and to the left and right of the crane to allow maximum work capacity in each area.

When slewing the boom from the longer outrigger area to the shorter outrigger area, the AML-C automatically detects the motion and displays the maximum capacity depending on each of the extension widths of outriggers, and brings the motion to a slow stop before it reaches the limits of the allowed capacity.

Therefore, even in the case of operator error, the AML-C's slow stop function will help to minimize any safety risk.



Operator comfort

The crane cab provides improved livability and offers the operator a more comfortable working environment.

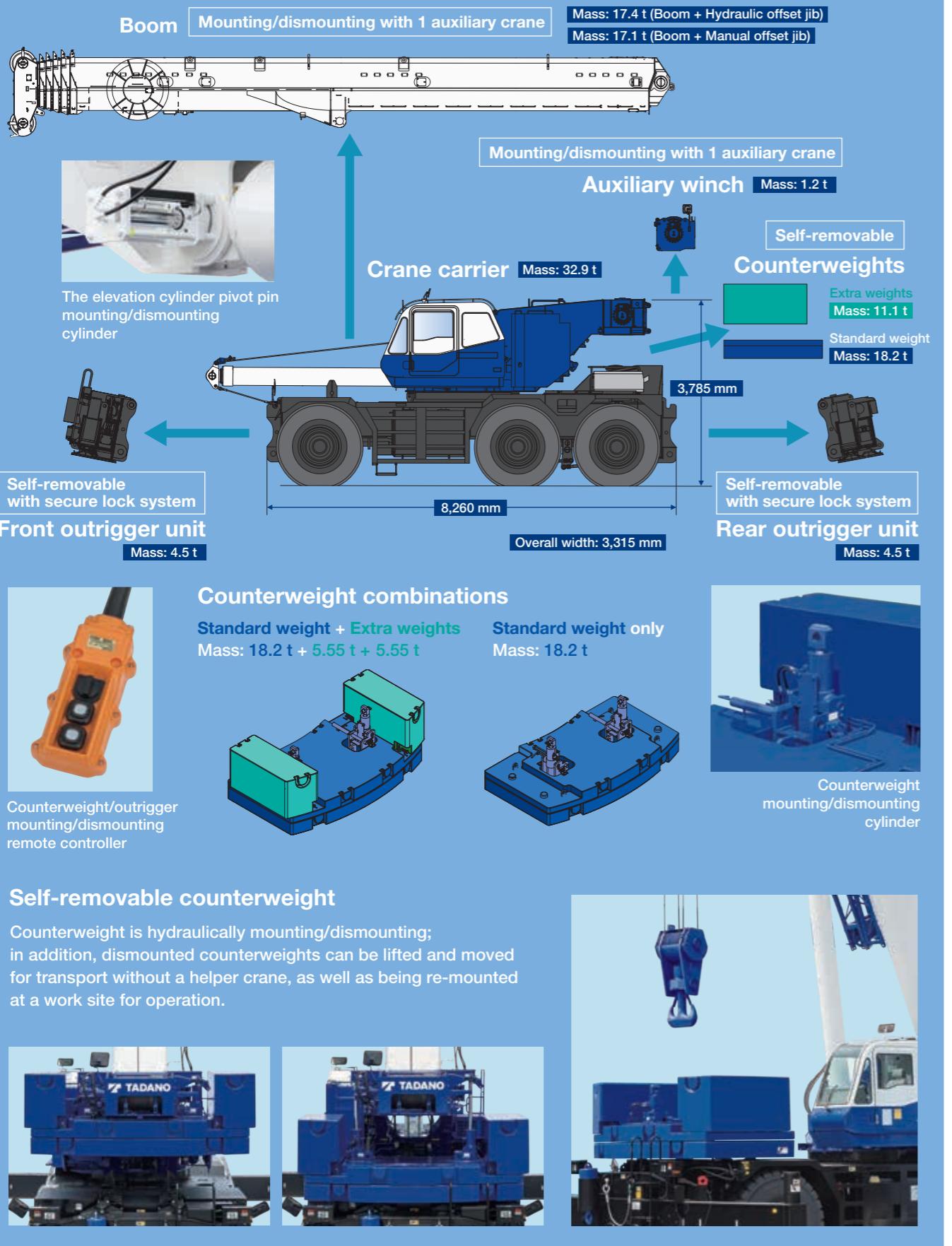
The control levers are smooth and responsive to the operators touch.



Air conditioner
Hot-water heater and air conditioning.

Mounting and dismounting systems

The GR-1450EX has several mounting and dismounting systems for traveling and transportation. Only the boom mounting/dismounting system is optional.



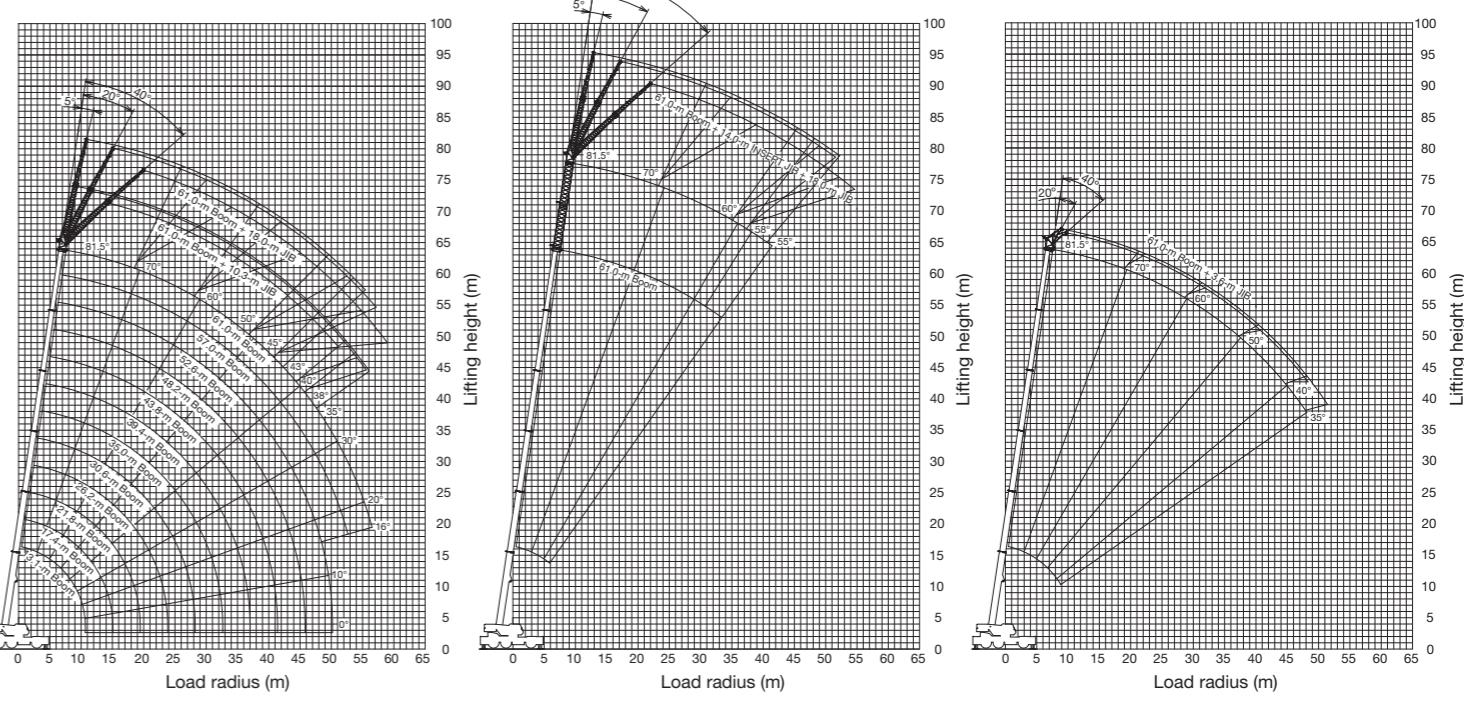
SPECIFICATIONS

| | |
|--|---|
| MAXIMUM CAPACITY PERFORMANCE | 145,000 kg at 2.5 m |
| Max. traveling speed (with counterweight) | 15 km/h |
| Gradeability (tan θ) (with 18.2 t counterweight) | 52% (at stall), 30%*1 |
| | *1 Machine should be operated within limit of engine crankcase design (17°: MITSUBISHI 6M60-TL). |
| WEIGHT | |
| Gross vehicle mass | 91,154 kg 90,805 kg*2 |
| -1st axle | 29,398 kg 28,701 kg*2 |
| -2nd axle | 30,640 kg 30,814 kg*2 |
| -3rd axle | 31,116 kg 31,290 kg*2 |
| | *2 Manual offset jib |
| MIN. TURNING RADIUS | 14.9 m (2-wheel steering), 9.9 m (6-wheel steering) (at center of extreme outer tire) |
| BOOM | 6-sections extended by single telescoping cylinder. |
| Fully retracted length | 13.1 m |
| Fully extended length | 61.0 m |
| Extension speed | 47.9 m in 450 s |
| Angle | -1.5° to 81.5° |
| Elevation speed | 20° to 60° in 28 s |
| JIB (option) | Two staged slewing around boom extension; 5°-40°, 0°, 20°, 40° *2 |
| Offset | 10.3 m and 18.0 m |
| Length | |
| Insert jib (option) | 7.0 m (1 pce.), 14.0 m (2 pcs.) |
| Length | |
| Short jib (option) | 20°, 40° |
| Offset | 3.6 m |
| Length | |
| MAIN WINCH | Variable speed type with grooved drum driven by hydraulic axial piston motor. |
| Single line pull | 70.6 kN (7,200 kgf) |
| Single line speed | 136 m/min. (at 4th layer) |
| Wire rope | 19 mm x 320 m (Diameter x length) |
| AUXILIARY WINCH | Variable speed type with grooved drum driven by hydraulic axial piston motor. |
| Single line pull | 70.6 kN (7,200 kgf) |
| Single line speed | 136 m/min. (at 4th layer) |
| Wire rope | 19 mm x 225 m (Diameter x length) |
| SLEWING | 1.3 min ⁻¹ (rpm) |
| Slewing speed | |
| Tail slewing radius | 4,600 mm |
| HYDRAULIC SYSTEM | Pumps... 2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and other equipment. Control valves... Multiple valves actuated by pilot pressure with integral pressure relief valves. Reservoir... 763 liters capacity. External sight level gauge. Oil cooler... Air cooled fan type. |
| STEERING | Hydraulic power steering. 4 steering modes available: 2-wheel front, 4-wheel rear 6-wheel coordinated, 6-wheel crab |
| SUSPENSION | 1st... Rigid mounted to frame. 2nd, 3rd... "Hydro-Pneumatic suspension cylinders" with leveling adjustment and oscillation. |
| TIRES | 26.5R25*2, Air pressure: 650 kPa |
| FUEL TANK CAPACITY | 300 liters |

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 boom elevation and 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

WORKING RANGE



There are two specification sheets available, Hydraulic offset jib and Manual offset jib, so please see specification sheet to clarify all your technical concerns. Working range and dimension chart show Hydraulic offset jib (option).

Note: Some specifications are subject to change.