



ROUGH TERRAIN CRANES



EVOLT **eGR-1000XLL-1**

100 Ton Capacity (90.7 Metric Tons)



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FULLY ELECTRIC ROUGH TERRAIN CRANE

EVOLT eGR-1000XLL-1

CO₂ emissions ZERO

EVOLT – Evolution Meets Voltage

This new EVOLT eGR-1000XLL-1 delivers the same powerful lifting capability as a GR-1000XLL-4, but in a quieter, zero-emissions package. Crane operation noise is reduced by 9 dB, and approximately 48,500 lbs of CO₂ emissions per year will be eliminated. The eGR-1000XLL-1 offers up to 7 hours of lifting or up to 16 miles of traveling with its on-board battery pack. As a working example for normal daily use, it provides 5 hours of lifting and 5.5 miles of traveling. This new crane is one of the many ways Tadano Green Solutions is lowering CO₂ emissions because our true mission is zero emissions.

Tadano's goal is to achieve Net Zero Carbon Emissions by 2050 in order to contribute to a better global environment as a part of the society through our products, services, and business activities and through the behavior of our individual employees.



OUR TRUE MISSION
ZERO EMISSIONS

Traveling Performance

Two high-power motors provide driving comfort. In addition to low noise, the shock-free and dramatically improved acceleration will reduce the stress of long-distance driving.

Motor Output

194 kW [97 kW + 97 kW]

Full time 4 x 4

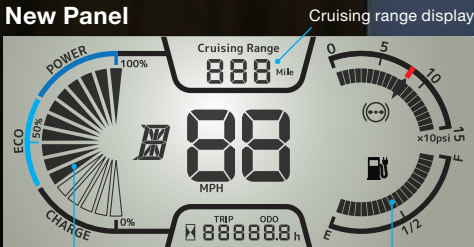
Max. travel speed: 11 mph [18 km/h]

Gradeability: 40% [21.8°]

Cruising range: 16 miles [26 km]

*Only traveling. Distance varies depending on air conditioner and battery thermal management system.

New Panel



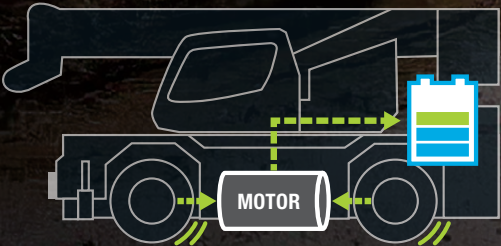
Power meter (traction)
ePTO tachometer (crane operation)

Cruising range display
Battery indicator

Regenerative brake

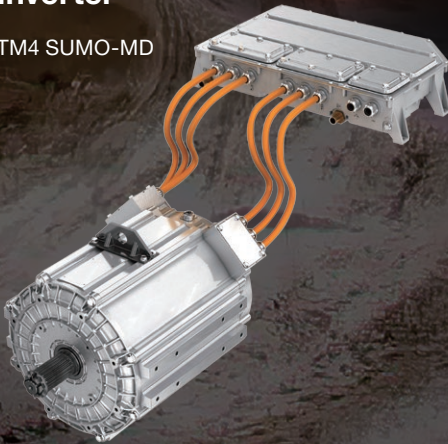
The regenerative brake uses energy generated by resistance when the motor is driven by wheel rotation during deceleration to charge the battery packs.

During deceleration



High powered motor and inverter

DANA TM4 SUMO-MD



Power Source

The on-board battery provides the necessary distance and crane operation time during daytime work. The battery can be charged by way of normal or rapid charge to ensure adequate charging capacity.

Battery Total

226 kWh



As a working example;
Crane operation & Travel:
5.0 hours & 5.5 miles [8.7 km]

*Distance and times vary depending on air conditioner and battery thermal management system.

Rapid charge
(CCS1, 125 kW, 350 A)

2.0 hours

Normal charge
(480 V 3-phase AC, 60 A)

4.5 - 5.5 hours



Charge port

LED light

Charge indicator

Normal charge port

Rapid charge port

LED light switch

Charge alarm indicator

Stop switch for high voltage

Normal charge switch

Breaker capacity selector switch

Lifting Performance

Lowering operation noise provides for a more comfortable experience for operators. This will be very useful in work environments where noise levels are critical, such as during nighttime work.

Crane Operation Noise

99 dB

Noise reduction 9 dB* comparing with GR-1000XLL-4
*EN standard test condition



ePTO Motor Provides High Powered Hydraulic Systems

Boom length: 167.3 ft

Max lifting capacity: 100 ton

Crane operation time: 7.0 hours

*Crane operation only. Times vary depending on air conditioner and battery thermal management system.

Plug-in operation

The battery consumption can be reduced by operating the crane during normal or rapid charging.

Lift Visualizer

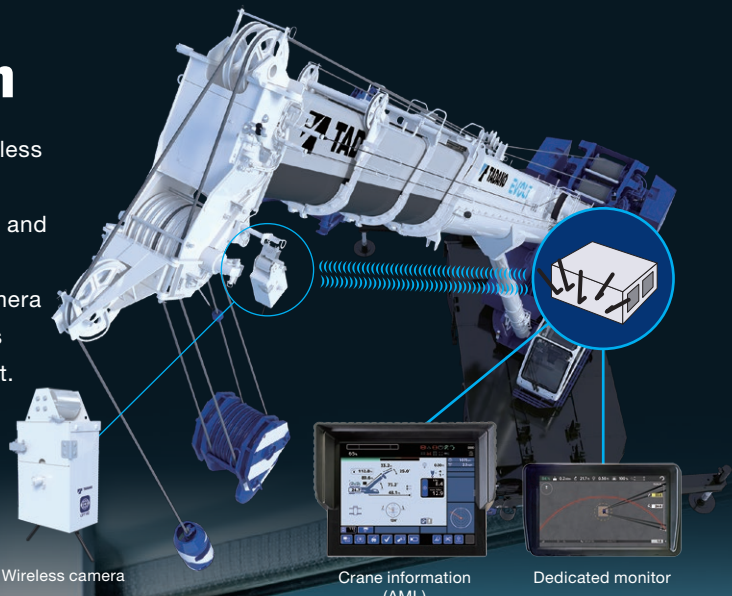


Control switches

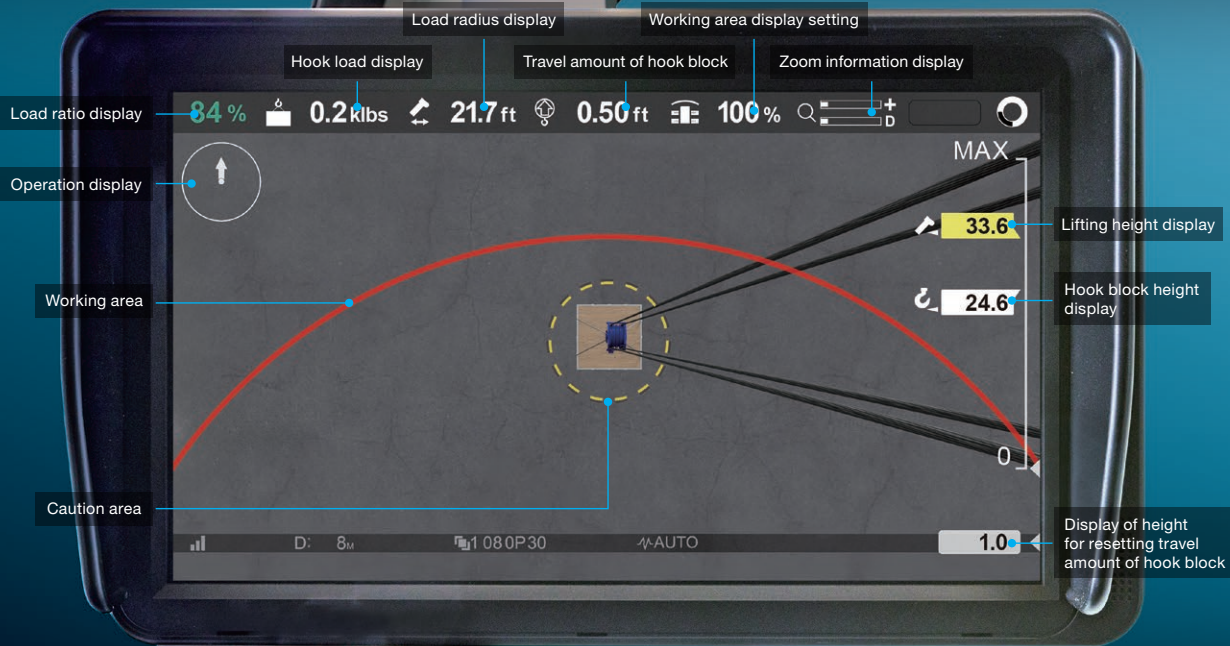


Lift Visualizer System

The lift visualizer receives images from a wireless camera mounted on the boom or jib head, superimposes the crane information via AML, and displays it on the dedicated monitor. This allows the operator to visually check camera images and working areas even in blind spots caused by obstacles, providing visual support.



Monitor



Maximum extension of outriggers



Unequal extension of outriggers



Outrigger

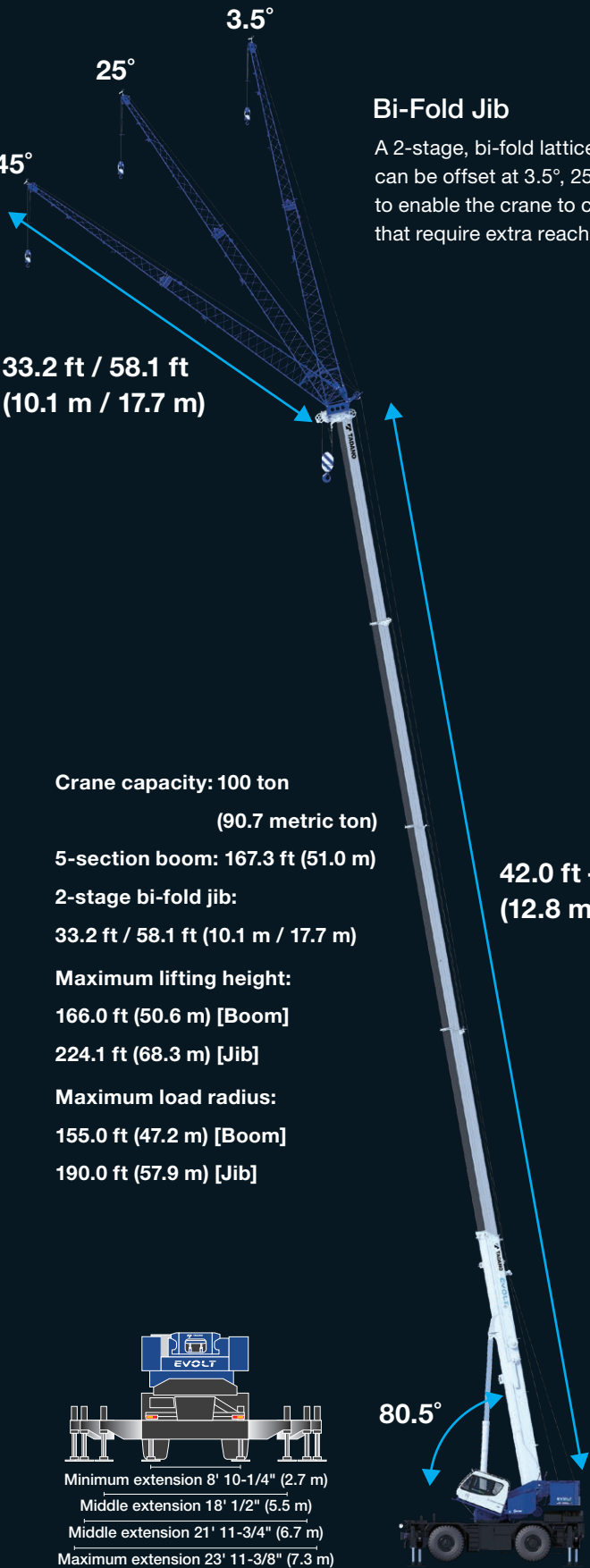
Left: Minimum extension Right: Maximum extension



Working area display function

The working area according to the operation configuration is superimposed on the image of the lifted load.

Operation & Function Features



Assist Cylinder for Jib
When mounting and stowing the jib, the assist hydraulic cylinders are used to increase work efficiency and safety.

Two Telescoping Modes 1 & 2
The operator has enhanced capabilities with two boom telescoping options whichever suits the lift needs.

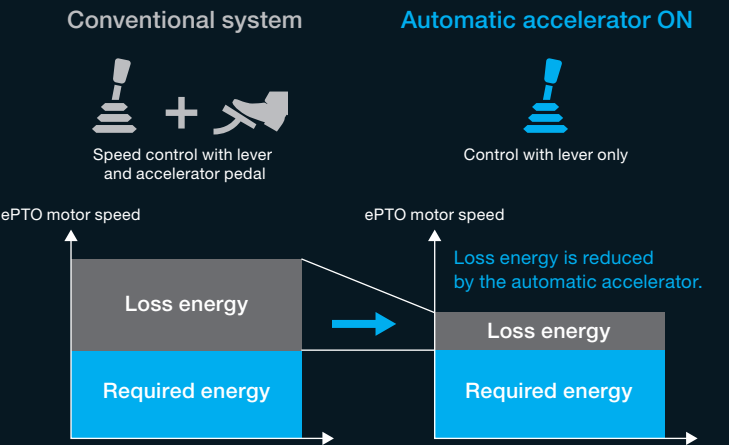
Mode 1
Mode 1 is extension of 2nd section only. Then follows the synchronized extension of 3rd, 4th and 5th sections.

Mode 2
Mode 2 is synchronized extension of 3rd, 4th and 5th sections. Then 2nd section extends independently.

Automatic Accelerator

Automatically controls the ePTO motor speed in conjunction with lever/pedal operation during crane operation. It eliminates the need to operate the accelerator pedal during crane operation, enabling speed control with the lever alone. Additionally, it increases the ePTO speed more efficiently rather than constantly depressing the accelerator pedal, reducing power consumption and motor noise.

* The conventional system and the automatic accelerator can be switched using a switch, allowing both systems to be used.

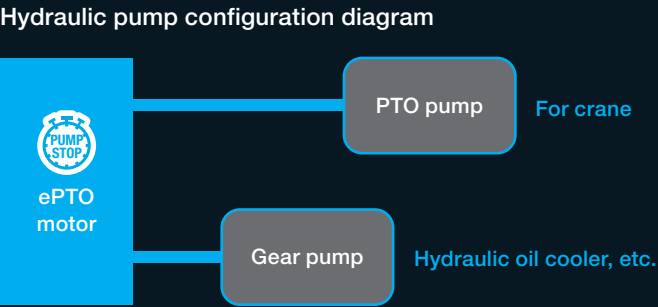


Automatic Pump Disconnect

Automatically stops the ePTO motor by turning ON the pump automatic stop switch when the crane is not used for a certain period, reducing power consumption and noise. During pump stop, the crane operation mode is maintained, and the crane status can be monitored on the operation screen. Even during long periods of standby, the crane operation settings, such as the outrigger setting, will not be reset, and the air conditioner will remain on.

* The function becomes active under certain conditions and the pump can be restarted using the horn switch.

* The standby time until the pump stops can be set to one of three options: 1 minute, 3 minutes, or 5 minutes.



Eco Mode System

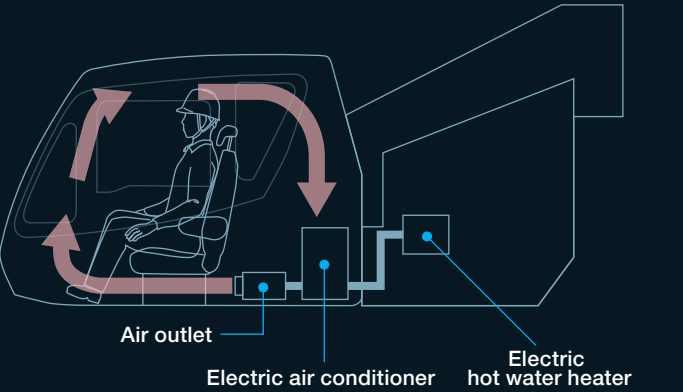
Controls the maximum ePTO motor speed at the time of crane operation and enables battery consumption to decrease by two of selection which Eco mode 1 and 2, and noise level is reduced.

Positive Control System

Effectively controls the quantity of hydraulic pump discharge during crane operation in response to the amount of movement applied, and reduces battery consumption.

Electric Hot Water Heater

By adopting the electric hot water heater to the superstructure, the hot water circuit has become more compact compared to the conventional hot water heater, resulting in improved maintenance and faster heating.



Load Moment Indicator [AML-E]

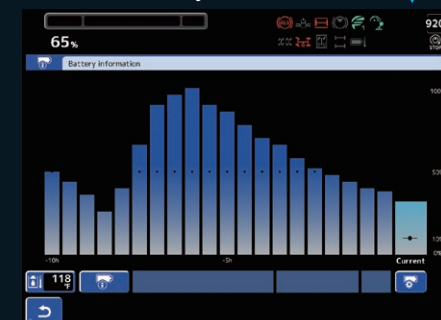
Large Multi-Function Display

The size-up 12.1-inch color touch panel consolidates operation information and settings for increased work efficiency and comfort. It also uses a capacitive touch panel, allowing you to tap and flick like on a mobile device.

Operation status display



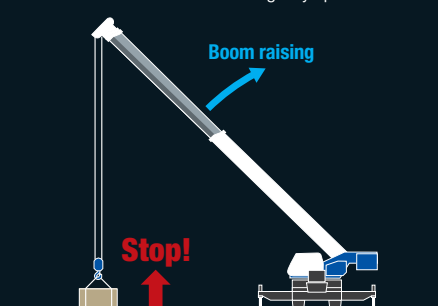
Lithium-ion battery information



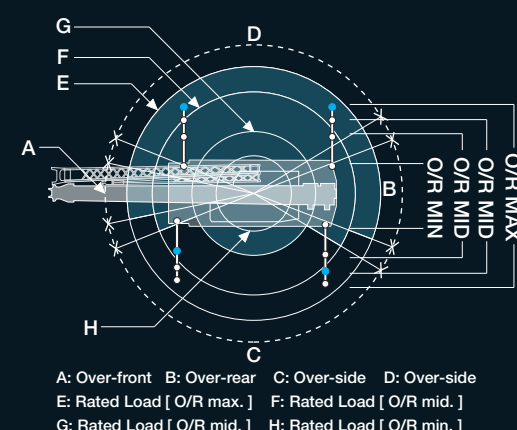
Safety Control for Boom Raising Operation

Prevents overload when boom raising operation is used for lifting a load off the ground.

*Release switch available for emergency operation



Asymmetric Outrigger Extension Width Control

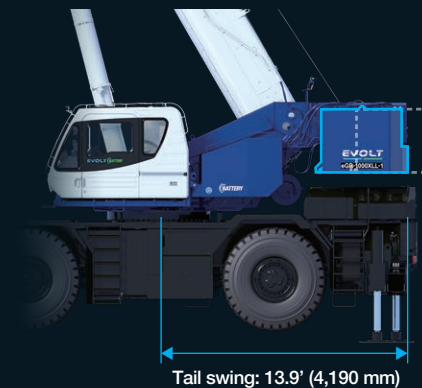


Smart Counterweight System

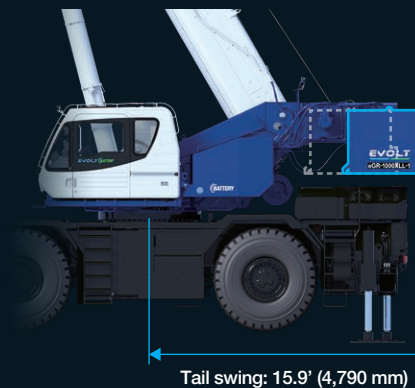
The Smart Counterweight allows the counterweight to be moved between two mounting positions.

This feature improves lifting capacity by up to 19%.

Smart Counterweight 1 (Front position)

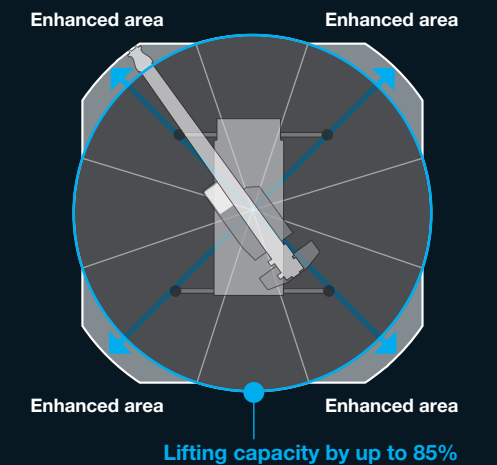


Smart Counterweight 2 (Rear position)



Smart Chart System

The Smart Chart expands the working area, allowing you to get the best crane performance in any outrigger extension setup.



TADANO View System

Supports safety confirmation through an above-the-vehicle image shown on the large multi-function display.

*Camera range is limited. Do not rely only on the image. Confirm safety around the vehicle directly before driving.

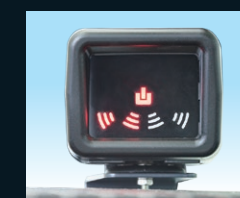
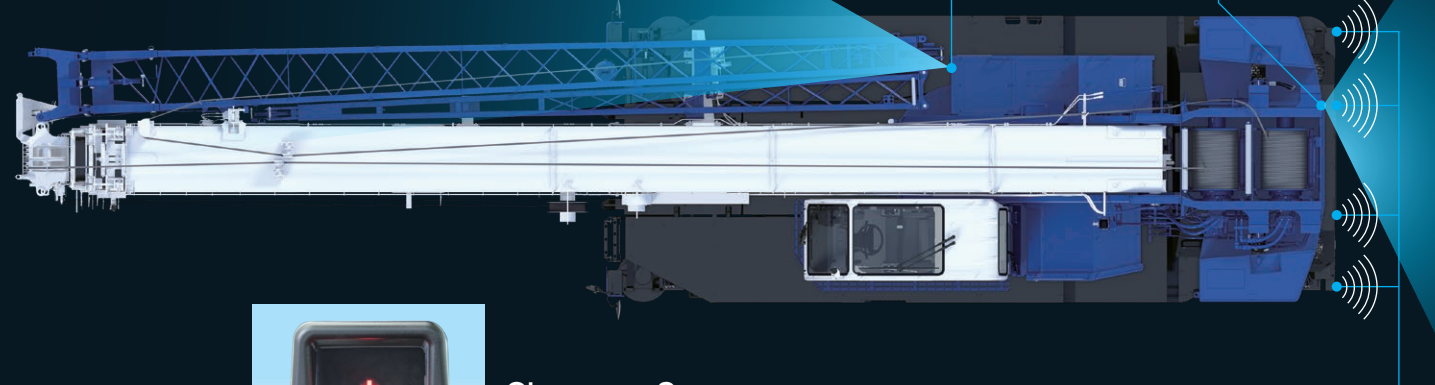
Right front view monitor*



Rear view monitor*



*The camera images in the photos are simulated.



Clearance sonar monitor

Clearance Sonar

Detects obstacles right behind the vehicle, and warns you with a flashing icon on the indicator and buzzer sound.

*Detection distance: approx. 1 ft ~ 8.5 ft (0.3 m ~ 2.6 m)

Standard Equipment

Emergency stop switch



USB port

Boom and jib mounted aircraft warning light (optional)

Outrigger control panel



Cab floor mat



Cup holder

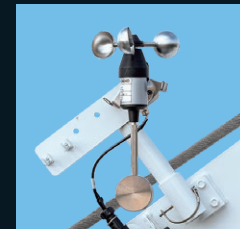


Shift switch



Search light (optional)

Wind speed indicator



LED work light



Two-roll sunshade



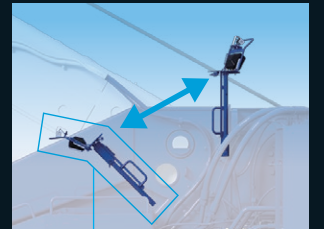
Adjustable in any position

20° tilt cab

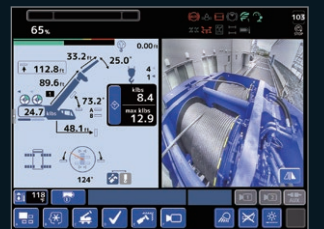


Cab tilt indicator and switch

Winch drum camera with light



Stowed position when transporting

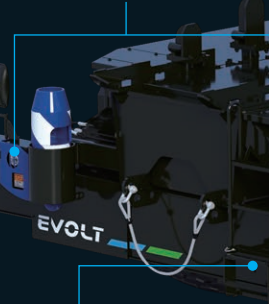


Winch drum monitoring camera

Cable follower for winches



LED head lamp



Normal charging cable (included)

LED rear combination lamp



Tool box



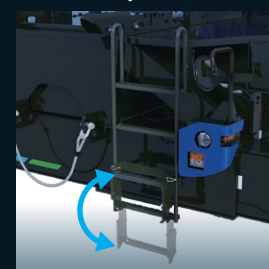
Right side steps



External warning



Front steps



Catwalk



Left side steps



Battery disconnect

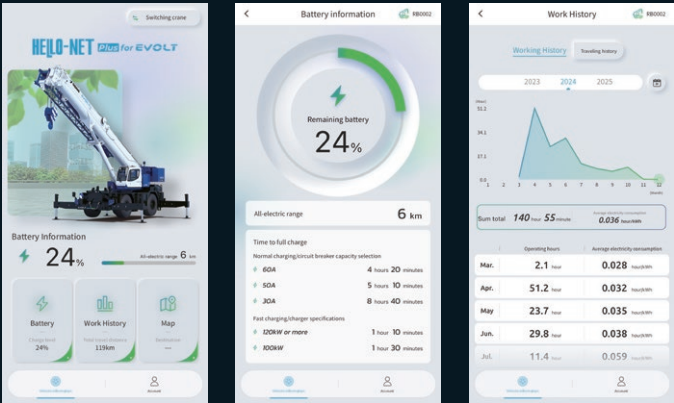


Applications

HELLO-NET Plus for EVOLT

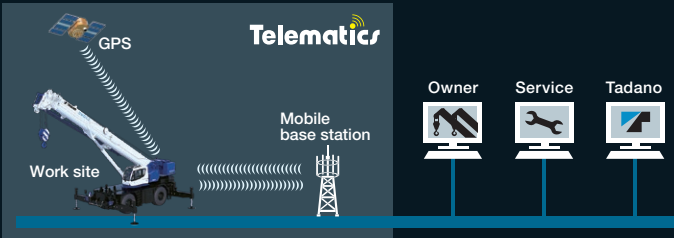
HELLO-NET Plus for EVOLT for crane owners clearly displays the battery status, operating history, and distance to the destination for Tadano electric rough terrain crane on the screen.

[App overview]
Displays information related to operations and traveling of the electric rough terrain crane to support the operator.
In the “Battery information”, it timely displays the “battery level”, “cruising range”, and “time until fully charged”.
In the “Operating history”, it displays work records and travel history, including operating hours, distance traveled, and energy consumption.
In the “Map”, it displays the “approximate distance to the destination” by setting a destination.



HELLO-NET

HELLO-NET is a tool that connects the crane operations with owners, their service staff and the manufacturer through satellite. This high quality telematic tool collects the data of the crane including working history, maintenance data and machine location. HELLO-NET can be accessed by the manufacturer to assist with downtime and to help improve Tadano support services.



HELLO-NET Telematics - Available in the U.S. and Canada, other countries may vary. Contact your distributor for details.

HELLO-DATA LINK

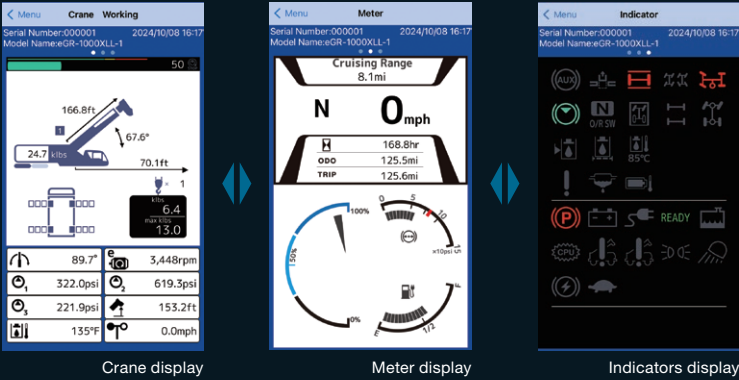
HELLO-DATA LINK connects cranes to mobile devices by wireless LAN, allowing you to receive operating status, indications, error codes and other information in real-time from outside the cab.
HELLO-DATA LINK helps crane and site supervisors to monitor operating status and stay informed on repairs and maintenance.



Three Working Displays

*Available display modes and information may differ depending on machine model.

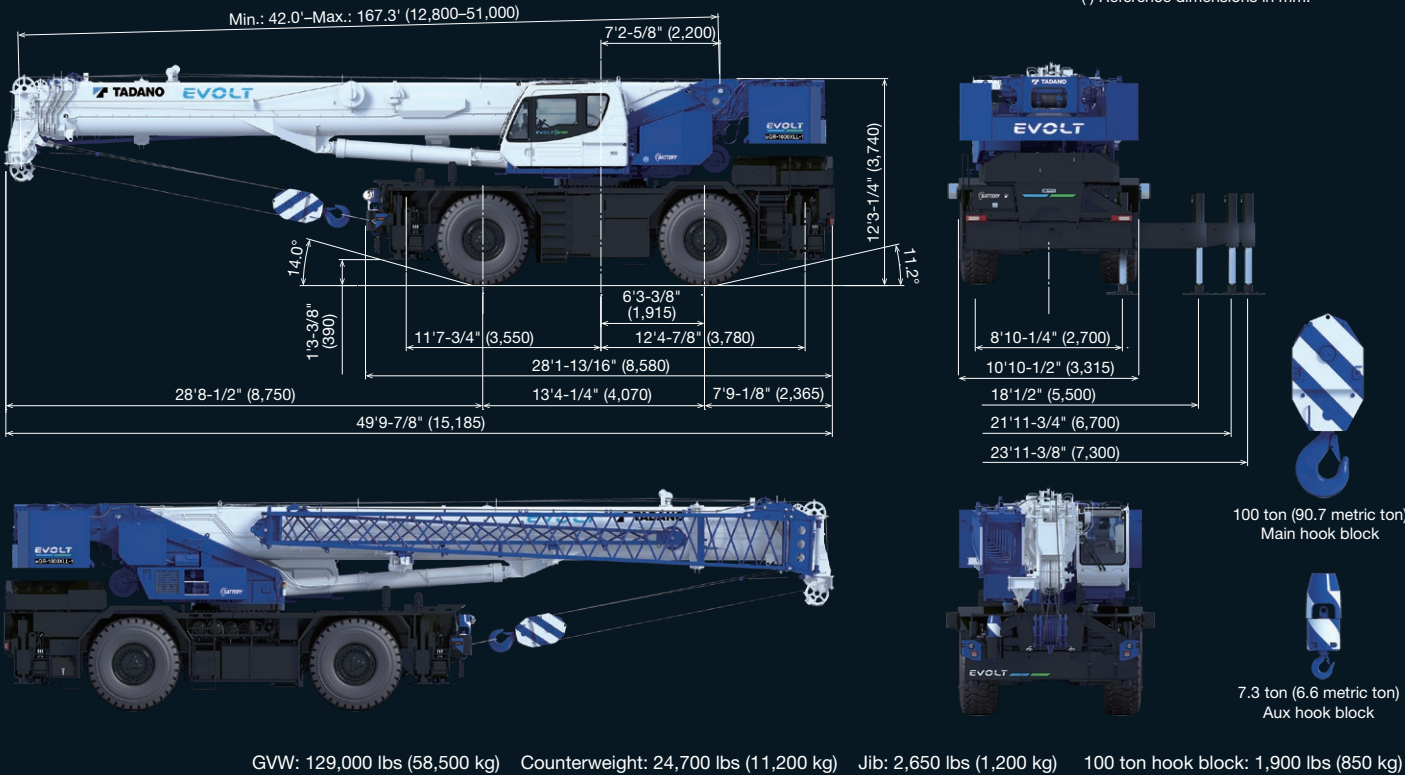
Display information from connected machines via handy smartphone or tablet. Swipe to easily change screens.



MAXIMUM CAPACITY	200,000 lbs at 8 ft (100 US ton at 2.4 m)
PERFORMANCE	
Max. traveling speed	11 mph (18 km/h)
Gradeability (tanθ)	40% (in short time), 20% (continuously)
WEIGHT	
Gross vehicle mass	129,000 lbs (58,500 kg)
-1st axle	64,700 lbs (29,340 kg)
-2nd axle	64,300 lbs (29,160 kg)
MIN. TURNING RADIUS	2-wheel steer: 36' 8-15/16" (11.2 m) 4-wheel steer: 22' 11-9/16" (7.0 m) [at center of extreme outer tire]
BOOM	5 section full power synchronized telescoping boom.
Fully retracted length	42.0' (12.8 m)
Fully extended length	183.7' (51.0 m)
Extension speed	125.3' (38.2 m) in 170 seconds
Angle	-1.5° – 80.5°
Elevation speed	20° to 60° in 46 seconds
JIB	2-stage bi-fold lattice type, 3.5°, 25° or 45° offset (tilt type).
Length	33.2', 58.1' (10.1 m, 17.7 m)
MAIN WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. 1st layer 20,000 lb (9,090 kg)
Max. single line pull	491 fpm (149 m/min) [at 4th layer]
Single line speed	Non-rotating 3/4" P · S (19) + 39 x P · 7
Wire rope	
AUXILIARY WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. 1st layer 20,000 lb (9,090 kg)
Max. single line pull	491 fpm (149 m/min) [at 4th layer]
Single line speed	Non-rotating 3/4" P · S (19) + 39 x P · 7
Wire rope	
SLEWING	
Slewing speed	1.5 min ⁻¹ {rpm}
Tail slewing radius	SMART CW1: 13' 9" (4,190 mm) SMART CW2: 15' 9" (4,790 mm)
HYDRAULIC SYSTEM	PUMPS: 2 variable piston pumps for crane functions. Tandem gear pump for steering slewing and other hydraulicsystems. Powered by electric motor. CONTROL VALVES: Electrically controlled multiple valves actuated by pilot pressure with integral pressure relief valves. RESERVOIR: 210 gallons (795 lit.) capacity. External sight level gauge. FILTRATION: BETA10 = 10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement. OIL COOLER: Air cooled fan type.

TADANO Load Moment Indicator (TADANO AML-E2)	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 - Automatic speed reduction and slow stop function on 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 - Lithium ion battery information monitor - Main winch / auxiliary winch select - Drum rotation indicator (audible and visible type) main and auxiliary winch - On rubber indicator
OUTRIGGERS	Four hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab.
Extension widths	Min. extension: 8' 10-1/4" (2.7 m) center to center Mid. extension: 18' 1/2" (5.5 m) center to center Mid. extension: 21' 11-3/4" (6.7 m) center to center Max. extension: 23' 11-3/8" (7.3 m) center to center Float size (diameter): 1' 11- 5/8" (0.6 m)
CARRIER	Front and rear motor, left hand steering, 4 x 4 front and rear drive.
ELECTRIC MOTOR	Name: DANA TM4 LSM200C Type: AC synchronous motor Max. output: 97 kW {132 PS} + 97 kW {132 PS} / 2,750 min ⁻¹ {rpm} Max. torque: 2,500 N·m {255 kgf·m} + 2,500 N·m {255 kgf·m} / 250 min ⁻¹ {rpm}
Axle	Front: Full floating type, steering and driving axle with planetary reduction and inter-wheel differential lock. Rear: Full floating type, steering and driving axle with planetary reduction, inter-wheel differential lock and emergency steering gear box.
STEERING	Hydraulic power steering controlled by steering wheel. Four steering modes available: 2 wheel front, 2 wheel rear, 4 wheel coordinated and 4 wheel crab.
SUSPENSION	Front: Rigid mounted to frame Rear: Pivot mounted with hydraulic lockout device
BATTERY	Batteries for driving: Lithium ion battery, 6 packs, 332 V, 226 kWh (37.7 kWh / 1 pack)
TIRES	26.5R25☆☆ - air pressure: 94 psi (650 kPa)

DIMENSIONS



GVW: 129,000 lbs (58,500 kg) Counterweight: 24,700 lbs (11,200 kg) Jib: 2,650 lbs (1,200 kg) 100 ton hook block: 1,900 lbs (850 kg)

Distance and times vary depending on air conditioner and battery thermal management system.

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Reaching new heights

Actual specification may differ.

2025-03

