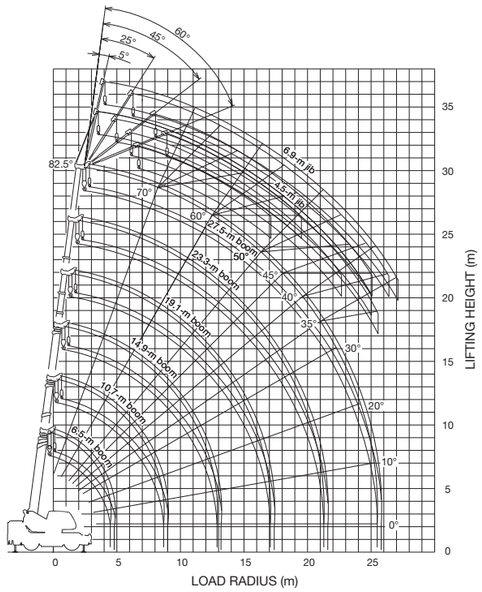
MODEL: GR-200EX

SPECIFICATIONS

MAXIMUM CAPACITY	20,000 kg at 2.5 m
PERFORMANCE	
Max. traveling speed	54 km/h
Gradeability (tan θ)	66% (at stall), 57%*
	* Machine should be operated within limit of engine crackcase design. (30°: Cummins QSB6.7-4C)
WEIGHT	
Gross vehicle mass	19,960 kg
-front axle	9,980 kg
-rear axle	9,980 kg
MIN. TURNING RADIUS	10.4 m (2-wheel steering), 5.7 m (4-wheel steering) (at center of extreme outer tire)
BOOM	6-section full power partially synchronized telescoping boom.
Fully retracted length	6.5 m
Fully extended length	27.5 m
Extension speed	21.0 m in 71 s
Angle	-9°–82.5°
Elevation speed	-9° to 82.5° in 30 s
JIB	2-staged under slung boom extension; Single sheave at jib head.
Offset	5°–60°(by offset cylinder)
Length	4.5 m and 6.9 m
MAIN WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor.
Single line pull	28.4 kN {2,900 kgf}
Single line speed	120 m/min. (at 5th layer)
Wire rope	14.0 mm x 155 m (Diameter x length)
AUXILIARY WINCH	Variable speed type with grooved drum driven by hydraulic axial piston motor.
Single line pull	31.4 kN {3,200 kgf}
Single line speed	110 m/min. (at 3rd layer)
Wire rope	14.0 mm x 85 m (Diameter x length)
SLEWING	
Slewing speed	2.6 min^{-1} {rpm}
Tail slewing radius	2,390 mm
HYDRAULIC SYSTEM	Pumps... 2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and optional equipment. Control valves... Electrically controlled multiple hydraulic valves with integral pressure relief valves. Reservoir... 285 liters capacity. External sight level gauge. Oil cooler... Air cooled fan type.

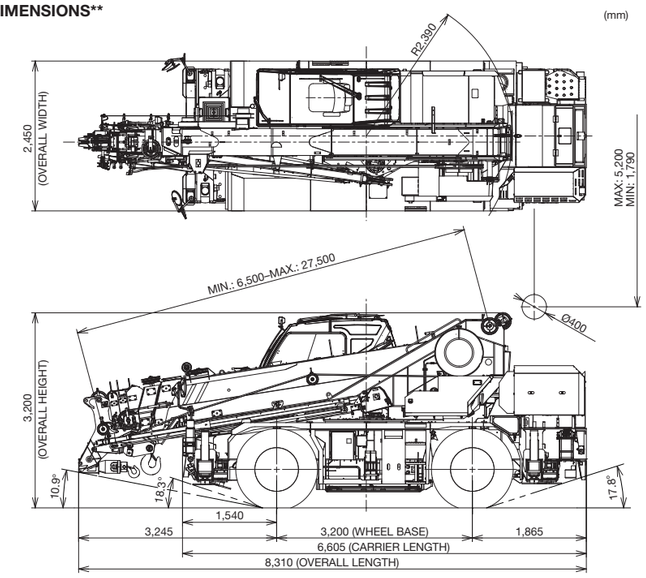
TADANO Automatic Moment Limiter (TADANO AML-E)	Following information is displayed: • Control lever lockout function with audible and visual pre-warning • Number of parts of line • Boom position indicator • Outrigger state indicator • Slewing angle • Boom angle / boom length / jib offset angle / jib length / 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 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 • Fuel consumption monitor • Drum rotation indicator (audible and visible type) main and auxiliary winch • On-rubber indicator
OUTRIGGERS	4 hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab.
Extension width	Max. ... 5,200 mm, Mid. ... 4,800 mm, 4,400 mm, 3,200 mm Min. ... 1,790 mm, Float size (Diameter)... 400 mm
CARRIER	Rear engine, right-hand drive, driving axle 2-way selected type by manual switch. 4 x 2 front drive, 4 x 4 front and rear drive.
ENGINE	Model... Cummins QSB6.7-4C EU)StageIV Type... 4-cycle, turbo charged and after cooled, direct injection diesel. Piston displacement... 6.69 liters Bore x stroke... 107 mm x 124 mm Max. output... 175 kW at 2,300 min^{-1} {rpm} Max. torque... 888 N•m at 1,500 min^{-1} {rpm}
TRANSMISSION	Electronically controlled full automatic transmission.
STEERING	Hydraulic power steering controlled by steering wheel. 4 steering modes available: 2 wheel front, 2 wheel rear, 4 wheel coordinated and 4 wheel crab.
SUSPENSION	Front: Semi-elliptic leaf springs with hydraulic lockout device. Rear : Semi-elliptic leaf springs with hydraulic lockout device.
TIRES	445/80R25 (OR)
FUEL TANK CAPACITY	250 liters

WORKING RANGE



DIMENSIONS**

(mm)



**In this external views, a few equipment are included.

Note: Some specifications are subject to change.

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TADANO

Lifting your dreams

ROUGH TERRAIN CRANE

GR-200EX

20 METRIC TON CAPACITY

The GR-200EX: High Quality We Are Proud Of

New 20 metric ton crane specifically designed for Australia!!

The GR-200EX is designed to comply with Australian road regulations and is fully manufactured in Japan.

ROUGH TERRAIN CRANE

GR-200EX

Benefits of the GR-200EX

- Designed to comply with Australian road regulations
- Fully manufactured in Japan
- Compact and quick set up
- Jib offset angle is adjustable with newly equipped jib offset cylinder.
- Increased operator visibility & Tadano View Camera System

Crane Capacity: 20,000 kg at 2.5 m

6-Section Long Boom:
6.5 m—27.5 m

2-Staged Jib: 4.5 m / 6.9 m

Maximum Lifting Height:
28.2 m (Boom)
35.0 m (Jib)

Maximum Load Radius:
24.0 m (Boom)
27.8 m (Jib)

Overall Length: approx. 8,310 mm

Overall Width: approx. 2,450 mm

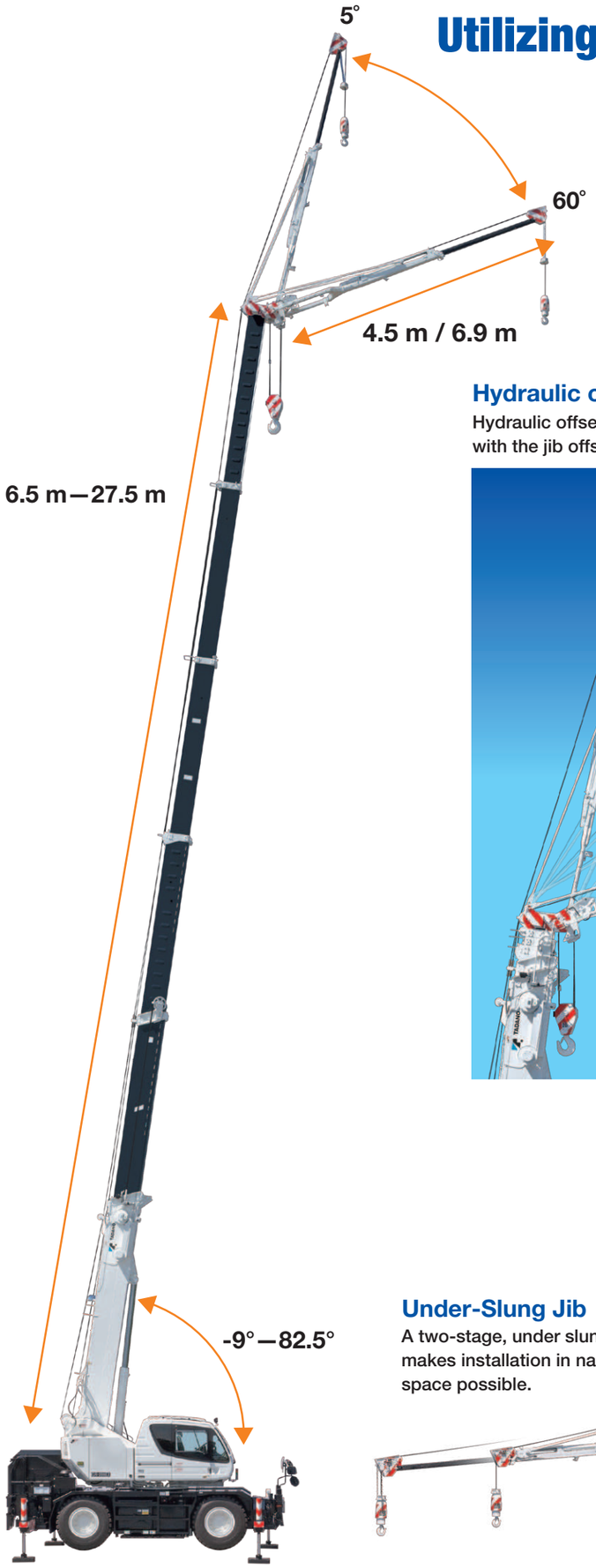
Overall Height: approx. 3,200 mm

Tire: 445/80R25

Min. Turning Radius:
10.4 m (2-wheel steering)
5.7m (4-wheel steering)

Utilizing the 2-stage hydraulic offset jib increases preparation work efficiency

First in its class to adopt a 2-stage hydraulic offset jib with the first radio control for a rough terrain crane.
This increases work efficiency while supporting safety features.



Hydraulic offset jib *New*

Hydraulic offset jib can be adjusted between 5° to 60° with the jib offset cylinder.

Under-Slung Jib

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

Radio control set-up

First rough terrain crane with radio control.
With the hydraulic under slung jib pared with a set up remote control, one man configuration, especially in narrow spaces, are safer, faster and effortless.

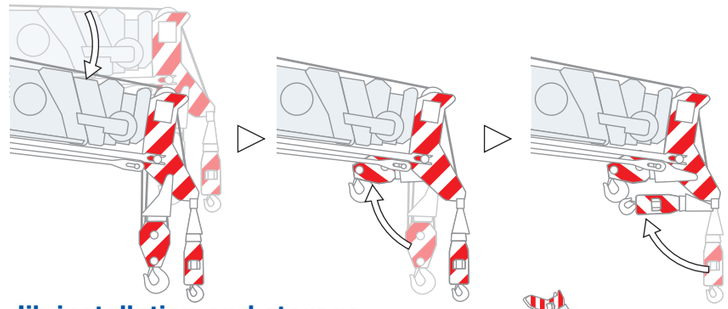
First time
for the rough terrain crane
*Optional feature

Outrigger control

Outrigger operation mode supports outrigger extension and retraction as well as jacking.

Hook stowage

Boom storage operation allows stowing of the hook with visual confirmation outside of the crane.

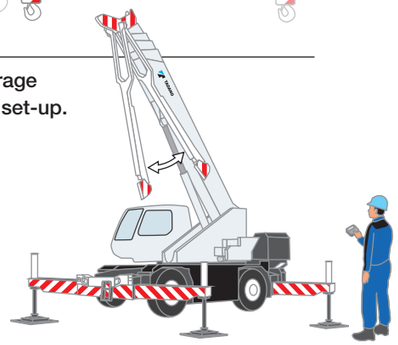


Jib installation and storage

Jib set-up mode puts jib installation and storage right at your fingertips with the radio control set-up.

Number of times the carrier must climbed in and out of during jib installation via radio control set-up

Conventional equipment
4 times → 1 time
(4 times if radio control is not used)

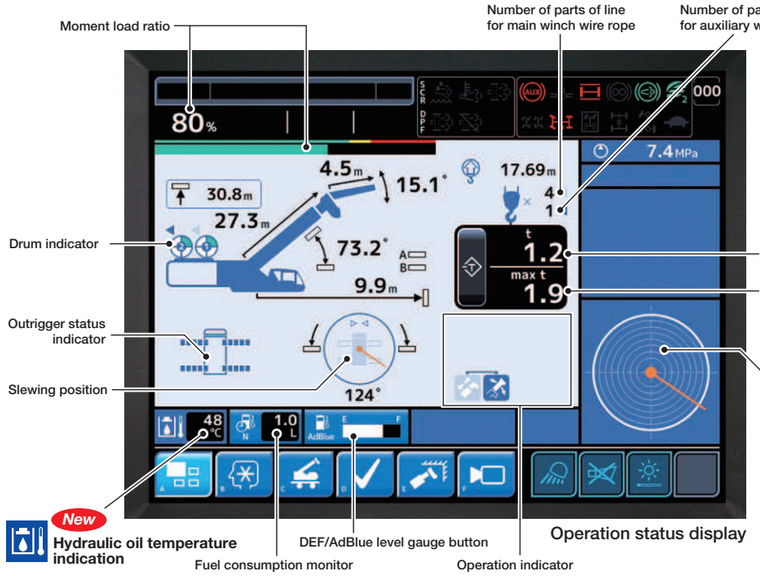


Optimum Design

Crane cabin and equipment designed for operator comfort.

Large multi-function display

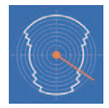
The 10.4 inch color touch panel consolidates operation information and settings for increased work efficiency and comfort. The touch panel is pressure sensitive to handle gloved operation.




Winch drum monitoring camera


Operation status


working area setting

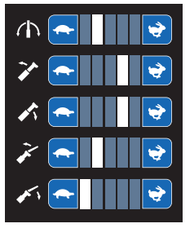

Example)
Working area when outriggers are asymmetrically extended

Operation feel

Adopted an electric operating system for operations with an unprecedented response feel. This enables operation that responds to the feeling of the operator.

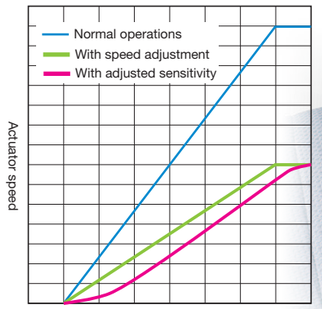
Speed can be set individually for rotation, boom hoist and jib tilt operations at 5 levels. Operator can work at own custom speed for more precise lifting.


Operation speed settings screen



Adjustable rotation sensitivity

Customiseable sensitivity control for increased stability.

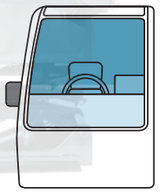


Comfort

Overhauled operation comfort and suspension sheet. A helmet can be worn without removing the headrest.

Visibility

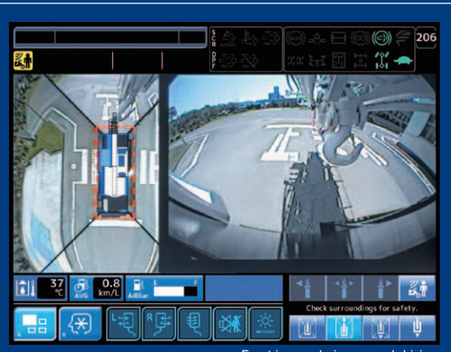
The shape and height of the instrument panel as well as the angle of the windshield have all been designed for optimum forward visibility.



New cabin

TADANO View System

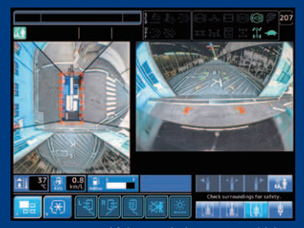
Supports safety functions from a birds-eye view image of crane



Front image during normal driving

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.



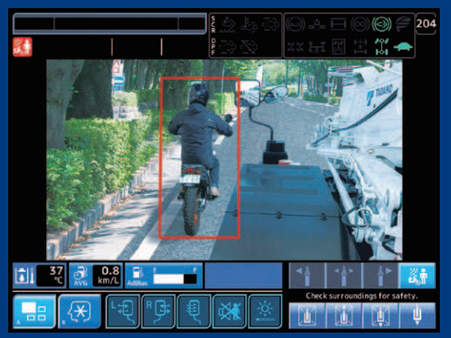
Aft image during reverse driving

Cameras are equipped on all four sides of the vehicle for images from four directions.

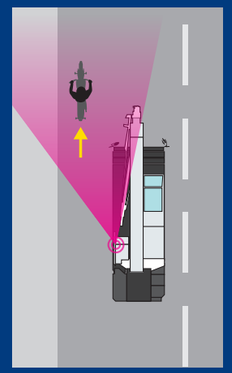
Human alert system (person detection warning) First worldwide!

This covers the left side of the vehicle, which is difficult to check from the driver's seat. When detected, a buzzer alerts the driver of people walking, riding bicycles, etc.

*Detection may not be possible or may be slow depending on light in the area as well as speed of both the vehicle and people.

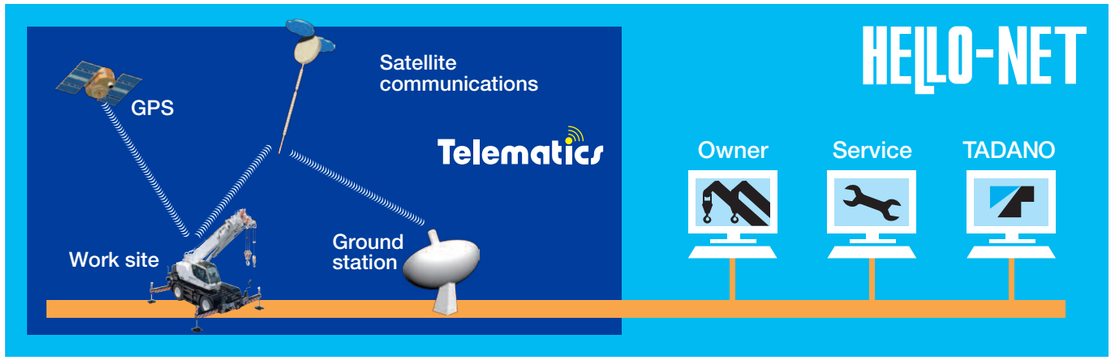


Detection camera



HELLO-NET New

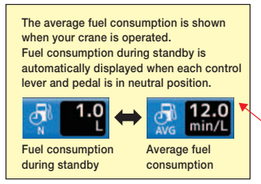
HELLO-NET is a tool that connects the crane operations with owners, their service staff and the manufacturer through satellite. This high quality telematic tool collects data of the crane including working history, maintenance data and machine location. HELLO-NET can be accessed by the manufacturer to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



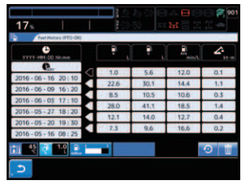
Reduce fuel consumption

Fuel monitoring

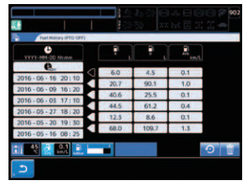
Checking fuel consumption enables operator to prevent wasteful fuel consumption from unnecessary acceleration and idling.



Preset menu display (during crane operation)



Fuel consumption history display (during crane operation)



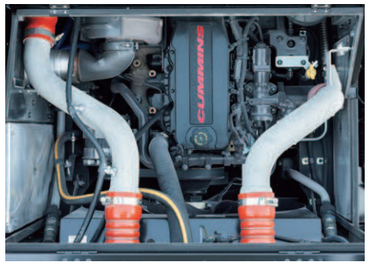
Fuel consumption history display (during traveling)

Positive Control System

Effectively controls the quantity of hydraulic pump discharge during crane operation in response to the amount of movement applied, and reduces CO_2 consumption by up to Max. approx. 21% .

Eco Mode System

Controls the maximum engine speed at the time of crane operation and enables fuel consumption and CO_2 emission to decrease by Max.16% with Eco mode 1, and Max.34% with Eco mode 2, and noise level is reduced.



High performance engine

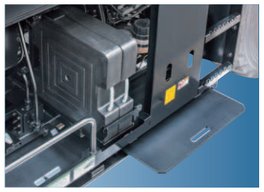
Cummins QSB6.7SCR

Emission gas cleaning system is SCR(Selective Catalytic Reduction) + DOC(Diesel Oxidation Catalyst)

Adblue® tank

Front steps

Wheel chocks



Aluminum plates

Plastic plates