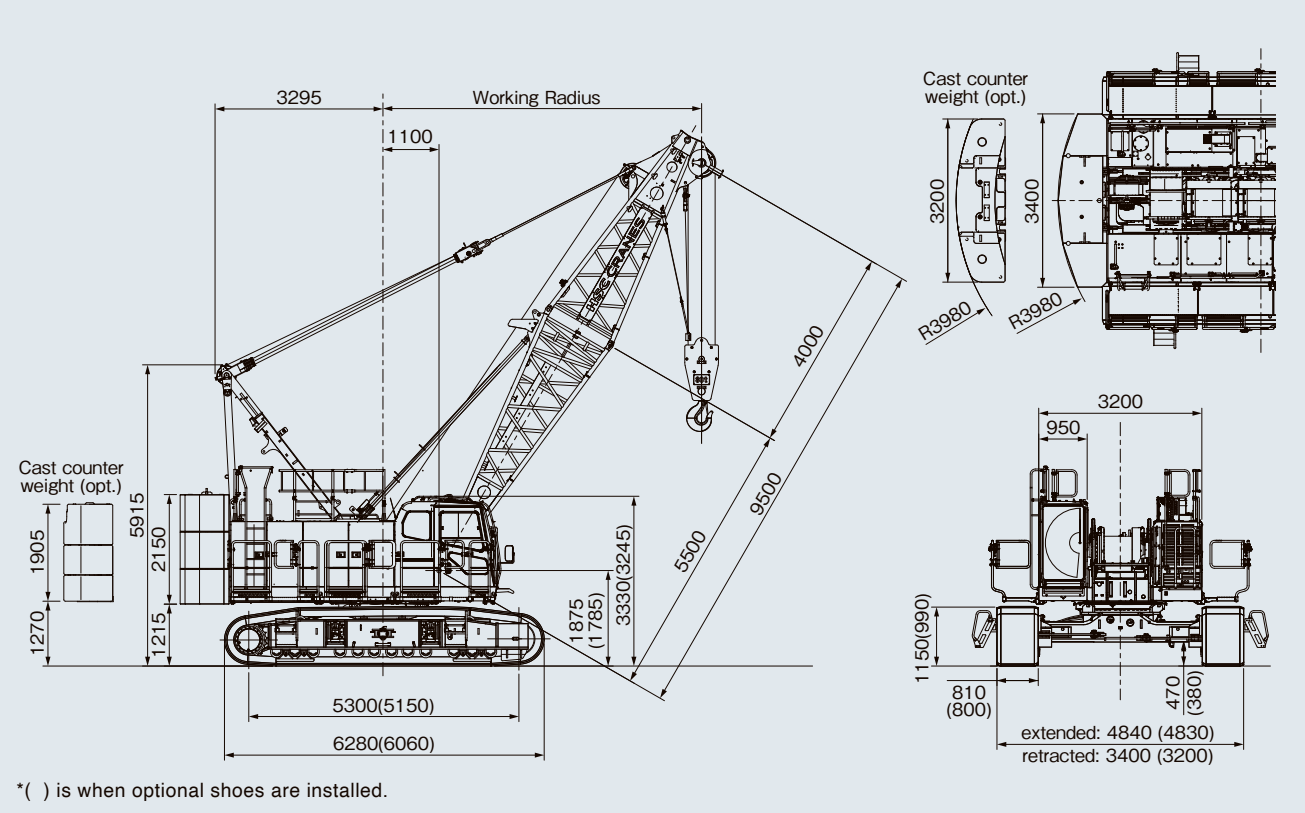


General dimensions

Units: mm



Specifications

Model		SCX800A-3	
Application		Liftcrane	Clamshell
Max. lifting capacity		80 × 3.3	—
Basic boom length		9.5	9.5
Max. boom length		54.5	21.5
Crane jib length		9~18	—
boom + crane jib length		45.5 + 18	—
Rope line speeds (*1)	Front/rear main drum (rated with 7 t load)	m/min	105 (80)
	3 rd winch (rated with 7 t load)	m/min	90 (40)
	Boom hoist drum	m/min	67
Swing speed		min ⁻¹ [rpm]	5.0 [5.0]
Travel speed (*2) high/low		km/h	1.6 / 1.1
Gradeability (*3)		%	30
Bucket capacity		m ³	—
Allowable gross weight		t	—
Max. digging depth		m	—
Engine	Make & model	Cummins B6.7 (Stage V)	
	Max output	kW/min ⁻¹ [PS/rpm]	209/2,000 [284/2,000]
Ground contact pressure		kPa [kgf/cm ²]	87 {0.88} w/basic boom, 80 t hook block
Operating weight (*4)		t	76 w/basic boom, 80 t hook block

Notes: 1. Rope line speeds vary under load and operating conditions (*1). 2. Travel speed is based on flat, level and firm supporting surface with no load and 15 m basic boom (*2). 3. Gradeability varies depending on ground conditions and crane specifications (*3). 4. Handrail (folding type), with catwalk (*4).

- We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
- Units in this catalog are shown under International System of Units (SI). { } indicates conventional units.
- Illustrations may include optional equipment and accessories, and may not include all standard equipment.
- Standard equipment and accessories may vary by country and region.
- Always refer to the Operator's manual before operating the crane.

Sumitomo Heavy Industries Construction Cranes Co., Ltd. has been abbreviated as "HSC" throughout this catalog. "HSC CRANES" is a brand of Sumitomo Heavy Industries Construction Cranes Co., Ltd.

Address inquiries to :

 Sumitomo Heavy Industries Construction Cranes Co., Ltd.

<https://www.hsc-cranes.com>





SCX
800A-3



Progress for Tomorrow Safer and Cleaner Today

Making jobsites, society and the world better is why we continually update our machines. The new SCX800A-3 for tomorrow represents HSC's underlying inspiration.



SCX 800A-3



Photos may include optional items.



New 12.1-inch Monitor

Touch Monitor

User-friendly and extraordinary safety with large, touch-screen monitor

EU Stage V Compliant Engine

Eco & Clean

World-leading low gas emissions and superb efficiency from innovative, eco-friendly power



New monitor designed for user-friendly operations and safety.

CONTROL SAFETY

The new monitor with moment limiter (M/L) provides smooth control with outstanding touch-screen usability, with the large 12.1-inch display ensuring excellent visibility. User-friendly operational safety is a key design element of the new monitor.

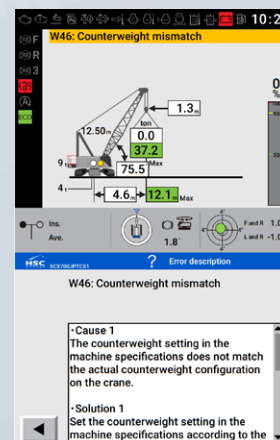
Touch panel for intuitive control

Simply follow the leads on the screen to intuitively select functions and enter parameters. The screen layout ensures faster, more accurate control for even safer operations.



Greater operating margin with data-rich display

Essential machine data can be viewed instantly with the graphical displays. Key information can be displayed in full, and interactive data communication assists operators in ensuring work is kept safe. Every aspect of the layout is designed for safety, like simply tapping warning icons to bring up more details.

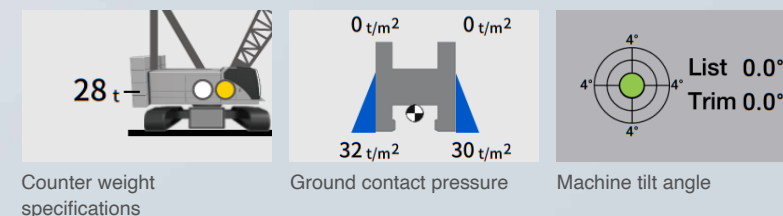


Example of warning message

The image of the monitor is for illustration purposes. Figures, values and other details may differ to the actual product.



Key data at a glance – graphical display of crane collapsing risk for greater stability



Counter weight specifications

Ground contact pressure

Machine tilt angle

8-inch monitor of previous model

225% area ratio

Large 12.1-inch monitor

Frequently viewed data is organized at the top of the large portrait-mode monitor. The widescreen layout provides abundant meter info and operating conditions, giving operators both a multi-functional, and multi-display design.



More comfortable operator seat

The operator's seat provides superior comfort—the lower headrest caters to operators wearing helmets, while a new seat heater further increases comfort during work.



Insulated roof window glass

New insulating glass has been used for the roof window to shut out more than 90% of UV and mid-infrared light. This helps to prevent sunburn and ensure a more comfortable working space by limiting the rise in temperature.

Swing restriction unit OPTION

Features a swing range alarm and automatic stop function. This option is designed to reduce the risk of accidents involving contact with objects, making work easier on confined sites.



Radio with Bluetooth®

* The Bluetooth® work mark and logos are registered trademarks owned by Bluetooth SIG, Inc.
* Excludes some countries.

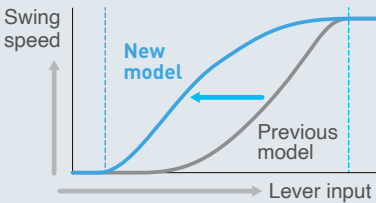
High-precision operations made smooth and easy.

PERFORMANCE

The SCX800A-3 is designed with ample performance capability to deliver outstanding operating precision and efficiency. Jobs are smoother and easier with the increase in swing response.



Comparison of swing response



Better swing response

Play in the swing lever has been further reduced, thereby improving movement when initially responding to lever input, and providing better swing response overall. This makes it easier to adjust positions and keep the boom stable, while less lever input also helps to reduce operator fatigue.

Note: Only for armchair lever.



Front and rear winches

The standard 7 t-rated line pull winch is designed to cater to heavy duty work and simultaneous movements. Using this in tandem with the optional brake results in a better operating feel and excellent operating performance.

11 t-rated winch OPTION

A powerful 11 t-rated line pull winch (rope $\phi 26$ mm) is also available to ensure stable operations on tough jobs.

3rd Winch* OPTION

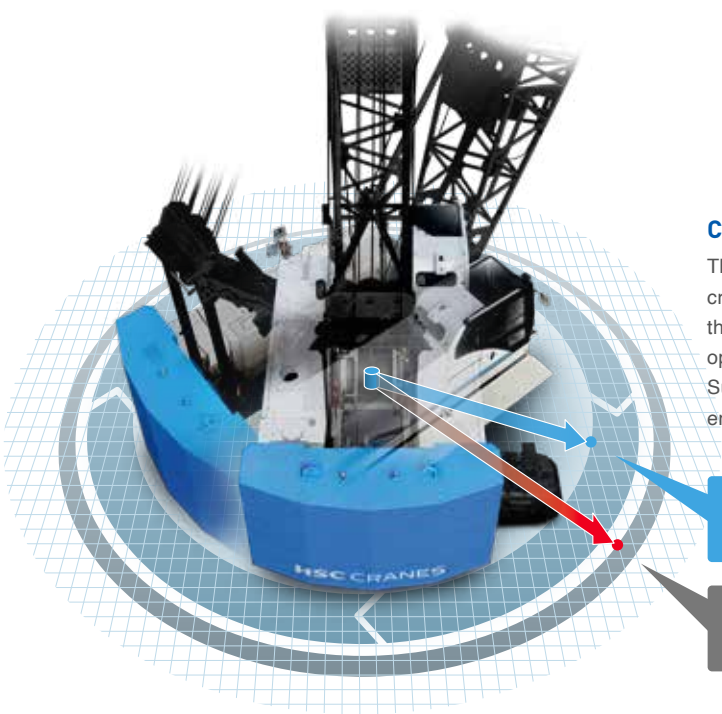
Attaching a 3rd winch (with brake) also allows handling of casing drivers.

*Only available with crane specifications



Drum and rear view monitor system OPTION

A drum and rear view monitor system is available to help monitor winching and conditions behind the crane.



Compact body for tight worksites

The SCX800A-3 has the smallest rear end radius in the 80 t crawler crane class. Powered with the latest clean-running engine, it retains the same compact body size as its predecessor, with a design to suit operations on tight worksites under outstanding levels of safety. Suitable for operating almost anywhere, the SCX800A-3 is engineered to expand on any business opportunity.

Rear end radius
SCX800A-3 **3980 mm**

The smallest rear end radius in its class* at less than 4 m means it can slot into any worksite!
* 80 t class crawler crane

Rear end radius (100 t class)
SCX1000A-3 **4300 mm**

Individual stanchions

-
- 1 Install poles and main ropes on each boom in advance.
 - 2 Erecting poles with the boom laid down allows main ropes to be installed.

Individual stanchions OPTION

Individual stanchions are now available to enhance safety when working on the boom during assembly. The stanchions can be set up and extended for each boom while the boom is laid out. Main ropes can be installed before working on booms, ensuring operations remain safe.

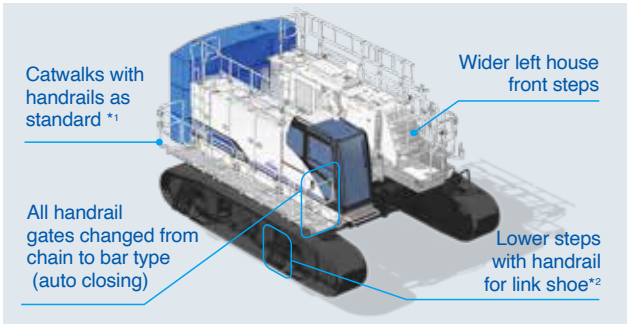


Cast counter weights OPTION

Cast counter weights that are more compact than the standard type are available as an optional extra. Being made from cast iron, they offer excellent recycling potential.

Counter weight	Standard	Cast OPTION
Width	3400 mm	3200 mm
Upper ground clearance*	3365 (3275) mm	3175 (3030) mm

* () When using flat shoes.



Safer and smoother access

Catwalks with handrails are now included as standard. Other changes to further enhance accessibility include a handrail added to the lower steps, wider front steps on the left of the house, and the use of bar type gates. Better accessibility ensures the utmost safety for all personnel working on job sites.

*1: Catwalks with no handrails are also available.

*2: For flat shoes (optional), lower steps come without handrail as standard.

Reduction counter weight specification OPTION

A reduction counter weight specification is available as an optional extra to provide added flexibility for a diverse range of worksites, including high locations and within tight internal areas where operating weight is limited or restricted (with counter weight detector).

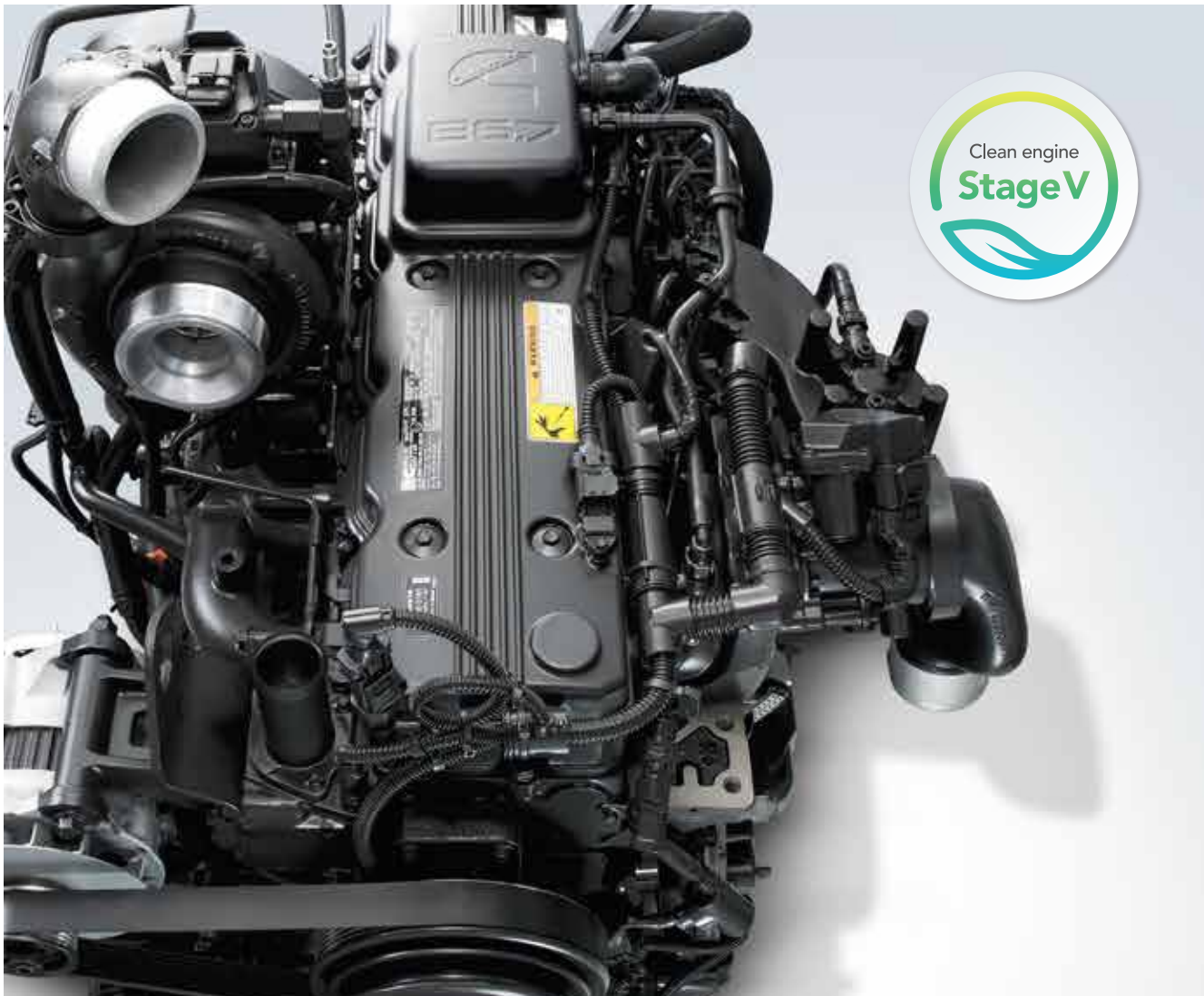
Counter weight (piece)	(Std)	(2)	(1)	(-)
Total operating weight	76 t	66 t	57 t	48 t
Ground contact pressure	87 kPa	76 kPa	65 kPa	54 kPa

* Figures in the chart above are when the standard counter weight is installed.
Note: Reduction counter weight specifications are only available with crane specifications (excludes crane jib).

EU Stage V compliant engine for a cleaner tomorrow.

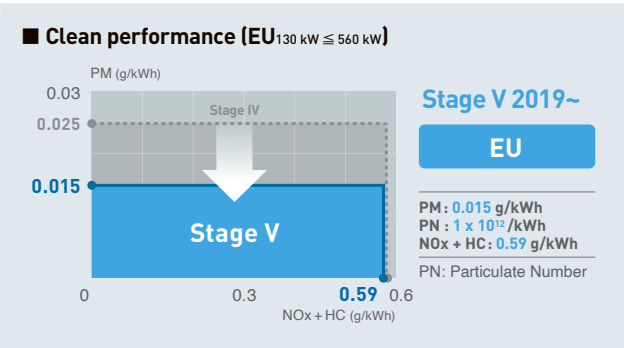
ADVANCED ECOLOGY

Powered with an EU Stage V compliant clean engine designed for world-leading eco-friendly operation. Outstanding clean-running performance and greater efficiency for lower CO2 emissions help build a more sustainable society and a cleaner tomorrow.



World-leading crane now even cleaner

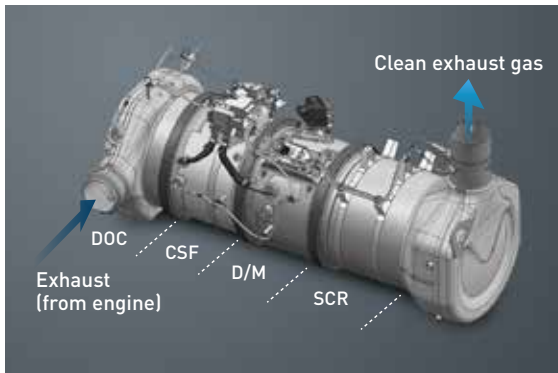
The combination of the efficient clean-running engine and advanced ATS system simultaneously achieves superior operating efficiency, high level of power and the world highest standard exhaust gas emissions.



Stage V includes newly proposed limits on particle number.

ATS system (exhaust gas after treatment system)

An ATS system is included, featuring a ceramic filter and Urea SCR for after treatment of PM and NOx in the exhaust gas. The system gives the engine high-efficiency combustion as well as outstanding fuel efficiency and clean exhaust gas.



* Use AdBlue® aqueous solution required for the Urea SCR (or a urea aqueous solution that complies with JIS or ISO standards). The SCX800A-3 requires AdBlue® to be refilled once every two times the machine is refuelled. AdBlue® is a registered trademark of the German Association of the Automotive Industry.

Designed for ease of maintenance

The elimination of EGR makes engine maintenance easier and also means the fuel filter needs to be replaced less often. A large Urea tank has also been used for longer refilling intervals.



Compatible with biodiesel

The engine can also run on biodiesel and other BDF or HVO.

Note: Use HVO that meets European specification EN15940. BDF: Bio Diesel Fuel HVO: Hydrotreated Vegetable Oil Contact our distributor for more details.

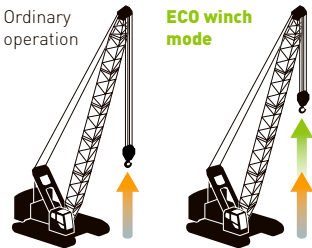


Other eco-friendly technology to save energy



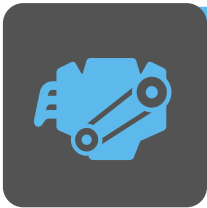
ECO winch mode

Light loads involving only hook operations benefit from ECO winch mode for high-speed hoisting and lowering while maintaining low engine speeds.



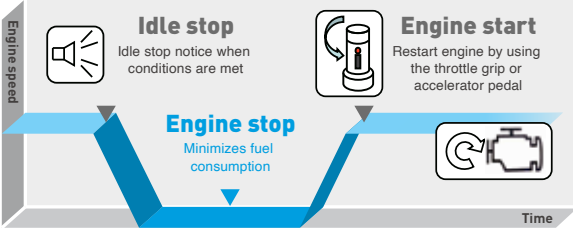
Minimal fuel consumption and high-speed winching with light loads

Automatically goes to ECO winch mode if the switch ON and required conditions are present (hook-only operation, low engine speed).



Auto idle stop function

Auto idle stop function included as standard to automatically stop the engine idling unnecessarily, which helps reduce fuel wastage during work.



Fuel efficiency and work efficiency evolved

The combination of a new clean engine and enhanced control systems (ECO winch mode, auto idle stop function) bring drastic improvements to fuel economy, as the SCX800A-3 is 15%* more efficient than the previous model (SCX800-2) under the same work situations.

Compared to previous model (SCX800-2) with the same work **15%** reduction in fuel consumption

Systems designed for efficient work

* In-house test figures (SCX800A-3 using ECO winch mode and auto idle stop function). This reduction in fuel consumption is just one example, and may differ depending on the type of work, environment and conditions.

A range of options to suit various job types and safety requirements.

OPTIONAL EQUIPMENT

A comprehensive lineup of optional equipment is available to streamline assembly work and enhance safety on work sites. Equipment is also available for smoother operation and greater comfort.

Cab

Swing brake operation pedal

The swing brake operation pedal ensures precise swing control under strong-wind situations.



Winch brake

The winch brake uses a hanging pedal, providing the operator with a positive brake feeling under various working conditions, facilitating smooth and precise braking operation with less effort.



Safety

Additional lights

In addition to the standard LED lights, two user-configurable lights are also available to enhance visibility during night operations.



Upper structure

Winch rope retainer

Reduces the risk of irregular wire rope winding. Can be installed on front and rear winches.



Electric urea pump

Refilling with AdBlue is easy with the use of a dedicated pump.



External engine start switch

When loading and unloading the crane from a trailer during transportation, the engine can be easily and safely started from outside the cab.



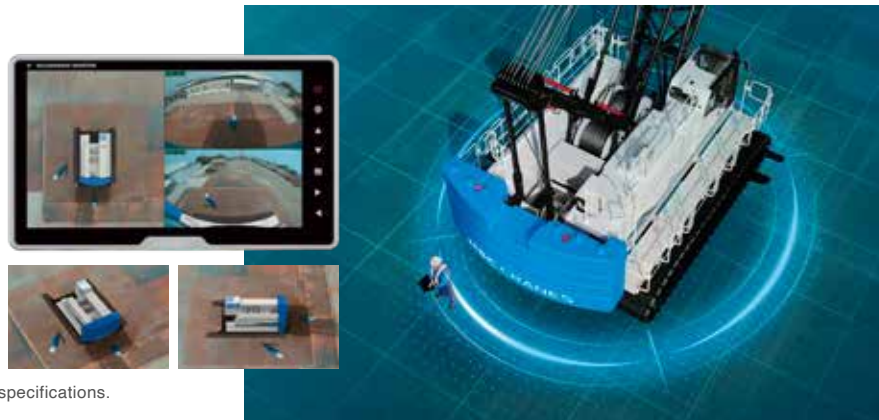
(Can only be used when operating the jack)



Merges and displays images from multiple cameras. Easily check surrounding conditions from a bird's-eye view.

- Multi-image display of target area
- Viewpoints can be changed
- Includes a drive recorder function

Note: Optional setting only available for European specifications. Consult with your distributor for details.



Greater safety and stability for machines working non-stop.

REMOTE SENSING



REMOTE SENSING as a watchful eye on the machine

Information on operating machines can be viewed at any time over the internet. Accurate data on operating conditions and parts replacement status help to reduce downtime and boost operating efficiency. The system also helps to cut maintenance time and costs with comprehensive machine management.

* Excludes some countries.



Map view



Maintenance data

Photos are for illustration purposes and may differ to actual products.

