■General dimensions

R4,300 810 6,295 3,400 (retracted)

■ Specifications

Model			SCX1000A-3		
Application			Liftcrane	Clamshell	
Max. lifting capacity		t×m	100 × 3.8	_	
Basic boom length		m	12	12	
Max. boom length		m	60	24	
Crane jib length		m	10~28	_	
Boom + crane jib length		m	51+28	_	
Rope line speeds (*1)	Front/rear main drum (rated with 12 t loa	nd) m/min	110 (45)	_	
	3rd winch (rated with 12 t load)	m / min	95 (30)	_	
	Boom hoist drum	m / min	44	_	
Swing speed		min ⁻¹ (rpm)	2.3 (2.3)		
Travel speed high/low (*2)		km/h	2.0 / 1.1		
Gradeability % (% (°)	30 (17)		
Bucket capacity		m³	_	2.5	
Allowable gross weight		t	_	10	
Max. digging depth		m	-	36	
Engine	Make & model		Isuzu 6HK1 (Sta	Isuzu 6HK1 (Stage III A / Tier 3)	
	Rated output k'	W/min ⁻¹ (PS/rpm)	200.6/1,850 (269/1,850)		
Ground contact pressure kPa (kg		kPa (kgf/cm²)	117 (1.19) w/basic boom, 100 t hook block	116 (1.18) w/basic boom, 2.5 m³ bucket	
Operating weight		t	104 w/basic boom, 100 t hook block	103 w/basic boom, 2.5 m³ bucket	

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 12 m basic boom (*2).

- 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). The figures in parenthesis are under the older British Gravitational System of 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.

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.

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Units: mm









SCX1000A-3 PERFORMANCE

Smooth and powerful. Advanced work capabilities are set to revolutionize your work site.

HSC cranes are at the forefront of their field, and are designed to create ideal working conditions to suit any work site or requirements. The SCX1000A-3 has been added to the lineup with a 10 t greater lifting capacity over the SCX900-2, as well as a host of powerful work capabilities. This drastically improves the base performance of the crane to provide true peace of mind for any type of work. There is now no reason to compromise when it comes to workability.



Better lifting performance for excellent workability

The SCX1000A-3 features outstanding design characteristics, and is now more powerful and refined. Ample performance helps to increase the crane's work radius to bring unprecedented efficiency to your work site. The powerful winch not only makes lifting easier, but also provides superior strength when lowering loads, where precise control is essential. Smooth and accurate work gives rise to safety and peace of mind.



All-new powerful winch

The power of the new 12 t-rated line pull winch (rope \$26 mm) has been increased by 8% to increase scope for lifting heavy loads with line-speed 45m/min, and provide better capability for simultaneous movements. Combined with a new brake* that offers better operating feel, the crane delivers simply outstanding workability.

A 13.5 t-rated line pull winch (rope φ28 mm) is optionally available.

* Optional extra

3rd winch OPTION

The 3rd winch has a new multiple wet-disc type brake with a 12 t-rated line pull winch and large winding capacity 220 m long rope. This allows the entire casing driver to be hoisted.



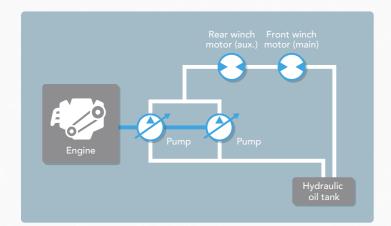
Eco winch mode with high-speed winching and low-fuel consumption

Also included is a new Eco winch mode, which allows high line speeds under light loads without having to increase the engine speed (low rpm). This mode delivers outstanding workability in situations such as high-elevation construction sites and work requiring many wire replacements, and also limits fuel consumption and noise as engine speed can be kept at a minimum.

SCX1000A-3 CONTROL

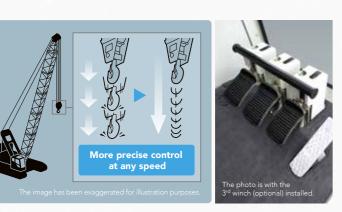
High-precision, exactly as intended. A level of control available to all.

Flexible operation and performance makes the crane truly shine during heavy lifting or precision jobs. The crane has been designed so that it can be operated by anyone, exactly as they intend to, instead of relying on the operator's level of experience or skill. Outstanding usability has been the key behind development, and can be experienced at your work site, wherever in the world that may be.



Combined hydraulic circuits

The hydraulic system uses HSC's own unique combined hydraulic circuit. By increasing and optimizing the pump pressure through the use of a mixed circuit to control the hydraulic oil from two hydraulic pumps, the sense of operability in travelling, hoisting/lowering, swing and boom hoisting can be enhanced. Even for multiplex operations, the latest hydraulic control system is able to support all tasks efficiently through priority control matching the needs. This helps to achieve a sense of operability that matches the intent of the operator.



New multiple wet-disc type brake with improved control feel OPTION

The optional brake uses a new multiple wet-disc type that offers better control. A hanging brake pedal gives the operator smooth and precise response. Reliable braking performance is now a reality even under high loads, all while minimizing disc temperature. The system can even be used for heavy digging and foundation work that utilizes free-fall operation*.

*Free-fall function is an optional extra for models equipped with the 12 t rated line pull winch. See the Spec. catalog for more details.



Control dials

Fine speed control dials for operations such as hoisting, lowering, swinging and boom hoisting are positioned in a central location on the left side console. Operations can be adjusted at will to suit the particular job.

Swing neutral brake

Switches for swing free/swing brake when the control lever is in the neutral position have been installed. When the swing lever is in the neutral position, the operator may choose between free or brake depending on the work and personal preferences.



Swing brake operation pedal OPTION

A swing brake operation pedal has been employed to ensure precise swing control under strong-wind situations. This maintains a high level of control when swinging the cab around, even on the harshest of work sites.

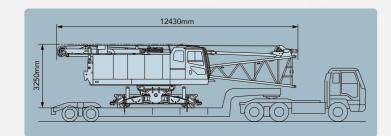




SCX1000A-3 TRANSPORTABILITY

Speedy and smart. Exceptional transportability and assembly guarantees better results.

The crane represents exceptional value when transporting it between sites. Performance has been retained while offering a design that allows efficient transportation, assembly and disassembly. This level of transportation and assembly combine to drastically improve efficiency on any work site.



2.99 m transportation width, body weight with lower boom approximately 30 t

To comply with changes in transportation requirements and more stringent regulations, the crane can be loaded on less than 3 m-wide trailers. And in addition to a crane body width that is 2.99 m, the weight of the body with lower boom has been kept approximately 30 t, which drastically improves ease of assembly after the crane has been transported to a site. This also leads to a reduction in transportation costs.

Note: The catwalk must be removed when transporting with the 2.99 m transportation width.



Folding gantry with hoisting cylinder

The folded gantry and main frame can be connected together, allowing the crane to be raised with the gantry in its lowest state. A hoisting cylinder has been installed as standard on the gantry itself, for quicker disassembly and assembly work.



New counter weight

A lower weight and new counter weight split into six separate pieces has been used to help reduce body weight but improve lifting performance. The lighter weight of each counter weight makes assembly easier.



Retract device

A retract device has been included as standard to change the width of the crawlers, making transportation of the crawler tracks easier. The retract pin can be pulled out from the outer side of the crane, which helps to improve safety during work.

Simple assembly crawler side frame

Comes with a folding extension beam and special link for lifting. These make the crawler side frame easier to assemble and disassemble, and improve safety.

Designed for ease of transportation and assembly

Lugs for boom lifting

Multi-assembly stage monitoring system

- Lugs for lifting crawler side frame
- Folding gantry with hoisting cylinder
- Hydraulic shoe tension unit OPTION

Reduction counter weight specification OPTION

Reduction counter weight specification are 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)	(4)	(3)	(2)
Lower weight	Yes	Yes	No	No
Total operating weight	104 t	98 t	77 t	70 t
Ground contact pressure	117 kPa	110 kPa	86 kPa	79 kPa

 $Note: Reduction\ counter\ weight\ specifications\ are\ configured\ to\ suit\ crane\ specifications\ excluding\ the\ crane\ jib.$

SCX1000A-3 SAFETY

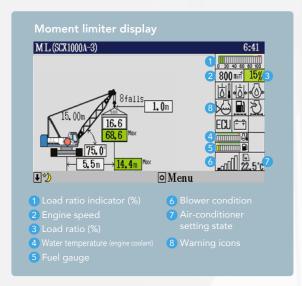
Reliable and precise lifting with advanced safety features

Improving safety should come first and foremost.

A simple, easy-to-view interface has been designed to ensure that information is provided to the operator in the most reliable way possible.

Various accident prevention measures and multiple redundant safety devices have also been included to provide comfort for the operator.

Rest assured that your work is safe, backed with a full complement of advanced safety equipment.



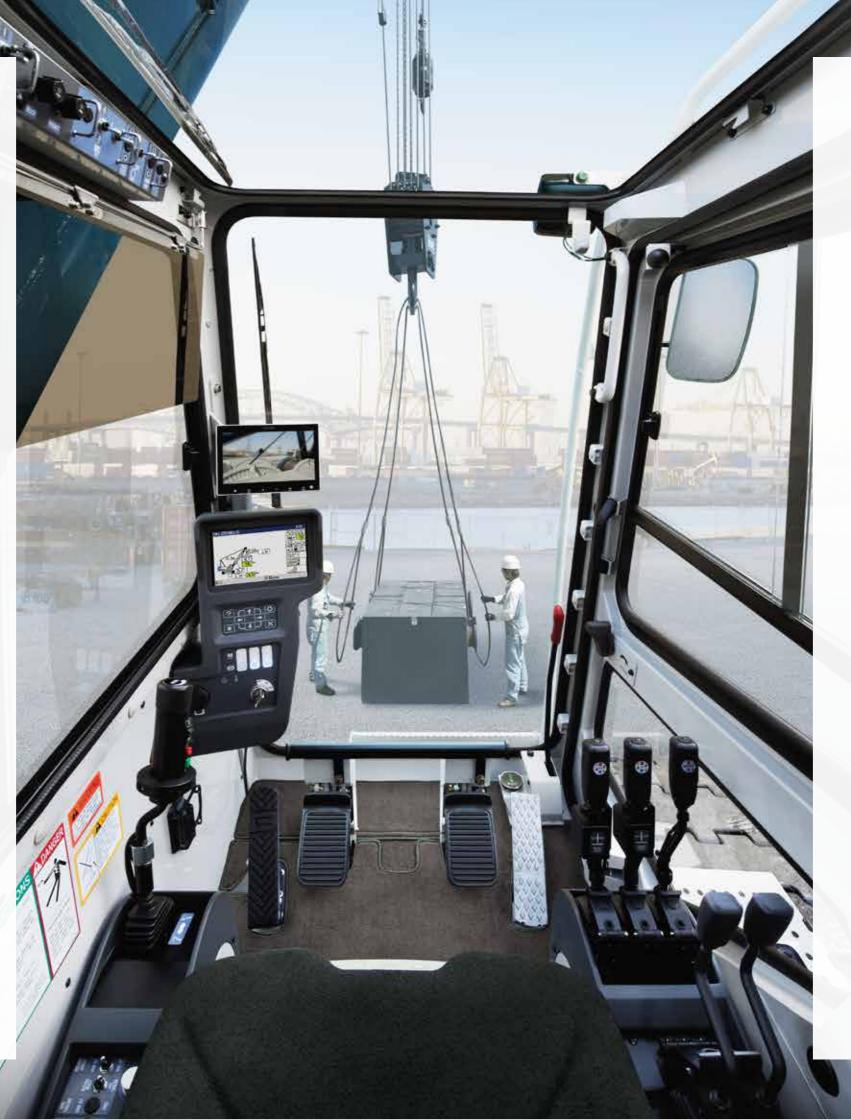
Moment limiter with large screen display

A large screen display has been used offering excellent visibility and field of view of any job. A host of items can be shown, while a simple display layout ensures that information is provided to the operator properly. The display has also been designed with an interactive interface to follow any movement of the crane from a safety perspective, which helps to limit unintended operations and maintain utmost safety.

ML Anti-two block

A new anti-two block using a lifting height indication device is offered as a standard equipment. When a height restriction is set in advance in the lifting height meter, the slowdown function will kick in as the restricted height is approached to prevent hook overhoist. Together with the anti-two block switch, the lifting height moment limiter provides a redundant level of safety against hook overhoist, leading to improved safety.

Note) This function plays a supplementary role to the existing moment limiter and use of this equipment alone is prohibited by laws and regulations.





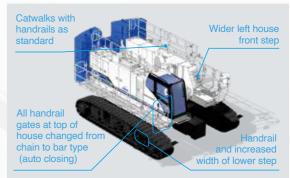
Swing restriction unit OPTION

This device prevents the crane from swinging into objects and causing damage, by notifying the operator of the swinging range and automatically stopping the crane when required. The result is an added level of safety when working in tight areas.



Drum and rear view monitor system OPTION

Four monitoring cameras have been installed to make it easier to oversee the condition of the front /rear drum, boom hoist drum, back and left-rear. For added safety, checks of each stage of operation are also easier as the wide screen is connected to switchable cameras.



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 step, wider front step 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.

Note) Catwalks with no handrails are also available.

Other safety functions and devices

- Winch drum lock (front, rear)Individual winch operation lever locks
- Three color percentage indicator OPTION
- Auto drum lock (boom hoist)
- Anti-two block
- Gate lock lever Firewall
- Emergency engine stop switchWider skywalk (made by FRP) OPTION

SCX1000A-3 COMFORT

Enhanced visibility and functionality with greater comfort

To provide operators with greater comfort over a longer work span, HSC has designed the crane to be easy to use from the ground up. Design elements such as excellent visibility and an optimum working position help to reduce operator fatigue, while at the same time increasing comfort and functionality to ensure maximum performance, day-in, day-out.



Major improvements to operating field of view

The cab has extra-wide windows to improve visibility in all directions. Green tinted safety glass has been used all round to protect the operator from UV rays and objects that may have come free during operation. A new wiper provides a greater area of visibility when working in rain.



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.



Cross operation lever OPTION

Cross operation lever is provided for a good, easy and comfortable operation for two main operating drums, boom hoist drum and swinging. For travel motion, two armchair levers are provided behind right-hand cross operation lever for operator comfort.



Optimized lever and switch layout



Radio with Bluetooth®

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SCX1000A-3 ECOLOGY

Clean and economical. Environmentally-friendly for mankind and society.

A new greener engine delivers clean power required for HSC's new generation of cranes. This advanced, environmentally-friendly technology ensures a more pleasant experience for everyone, surrounding towns, well into the future. Fuel consumption has been fine-tuned for more economic operation, which also presents major benefits from a management perspective.



Reduce exhaust gas and Reduce engine parts

9 conditions to get Idle stop

#1 Idle stop main switch ON

#2 Engine warmed up

#3 All levers are neutral

consumption Reduce fuel consumption

and running cost

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

IDLE STOP

STOP

#4 Idle engine speed #7 Swing brake ON

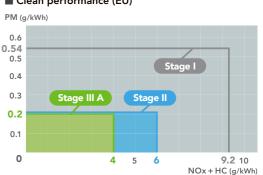
#6 Not free fall mode #9 Keep #1 to #8 more than 7 seconds

#5 Not over load

Powered with a clean engine

Powered with an environmentally-friendly engine that is equivalent to EU stage III A and US Tier 3 emissions regulations. A major reduction in exhaust gas emissions and a reduction in fuel consumption help to decrease CO2 emissions. The new engine and power train have been engineered to be even more environmentally-friendly.

■ Clean performance (EU)



Technologies to improve fuel efficiency

In addition to improvements to the engine combustion efficiency, paired with enhanced hydraulic controls, idle stop functions and Eco winch mode have also been used to comply with more stringent exhaust gas regulations as well as improve fuel economy.





Counter weights with outstanding recyclability

Environmentally-friendly design with counter weights made from cast weights that can easily be recycled.



Utmost reliability on work sites. Today, and decades into the future.



There are numerous ways to measure quality. Reliability that ensures peace of mind during daily operations is just one. HSC has designed the SCX1000A-3 from early on in the development stage to deliver enhanced durability and ease of maintenance. Engineered with a safe design for improving operating capabilities and reducing running costs, HSC cranes have evolved to deliver more benefits than ever before.





High-durability box type track shoes

Shoe automatic tension unit OPTION

New boom angle sensor

New load cell

Measures for improving durability

Increasing the strength of each part essential for operations is the first step. Reliability has also been fine-tuned to maximize work capabilities. Only the most stringent quality standards have been employed by HSC, from the start of development to production, all the way through to durability testing. Every aspect has been honed to ensure reliability, including a stronger lower frame, and greater precision load cells and boom angle sensor. HSC has developed a truly environmentally-friendly crane for all, built on strict eco-management standards.

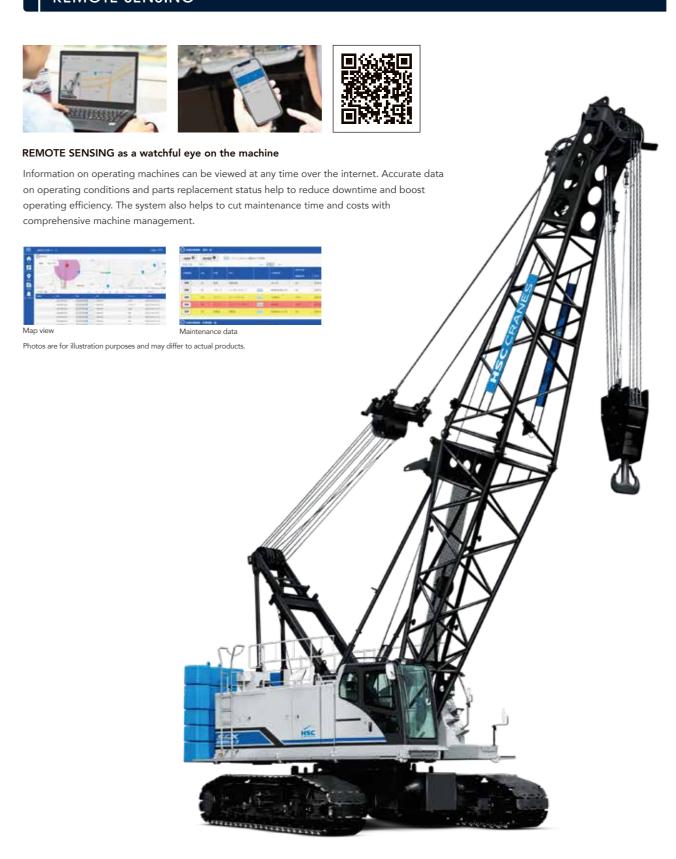




Even easier maintenance

A central layout has been used for inspection equipment, combined with more gauge ports and a host of other useful functions. Maintenance has been made so much easier with improvements to engine servicing, and a layout that makes each filter and fan belt a breeze to replace.

REMOTE SENSING



*Photos may differ to the specifications of available products.