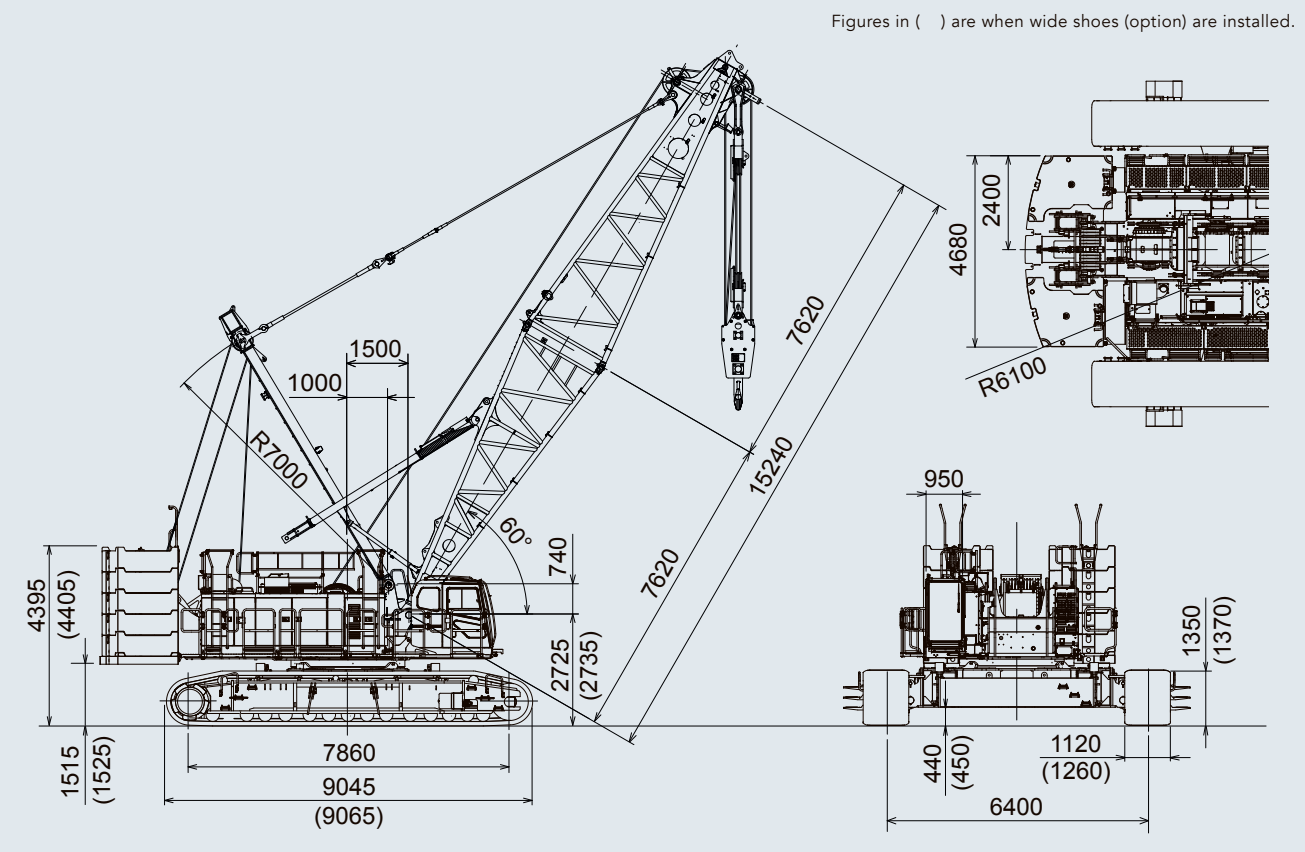


General dimensions

Units: mm



Specifications

Model		SCX2800A-3	
Application		Liftcrane	Luffing towercrane
Max. lifting capacity	t × m	275 x 4.3	80 x 9.3
Basic boom length	m	15.25	—
Max. boom length	m	91.45	—
Crane jib length	m	12.20 ~ 36.55	—
Max. boom + crane jib length	m	70.10 + 36.55	—
Tower length	m	—	21.35 ~ 60.95
Tower jib length	m	—	21.35 ~ 60.95
Tower + jib length	m	—	60.95 + 60.95
Rope line	Front/rear main drum	m/min	110 ~ 2
speeds (*1)	Boom hoist drum	m/min	30 x 2
	Tower jib hoist drum (Optional)	m/min	55
Swing speed	min <sup>-1</sup> (rpm)	1.5	1.5
Travel speed high/low (*2)	km/h	1.0 / 0.5	1.0 / 0.5
Gradeability	% ( ° )	30 (17)	30 (17)
Engine	Make & model	Cummins L9 (EU Stage V)	
	Rated output	kW/min <sup>-1</sup> (PS/rpm)	
Ground contact pressure (*3)	kPa (kgf/cm <sup>2</sup> )	129.0	141.8
Operating weight (*3)	t	232	255
		With 15.25 m boom and 275 t hook	With 60.95 m tower, 60.95 m tower jib and 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 15.25 m basic boom (\*2). 3. With upper house handrails and catwalks with handrails (\*3).

- 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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SCX  
2800A-3





# Further. Higher. Cleaner. 275 t.

Building a better foundation for all, for a brighter, cleaner tomorrow. HSC embarked on development of the 275 t class crawler crane by endowing it with performance for a new era. Power and precision were core requisites for reliable work, but HSC went even further to incorporate additional features: ease-of-assembly for superior efficiency; advanced eco-friendly design; and safety and comfort for operators and job sites.

The SCX2800A-3 delivers superior performance in a more accessible package – its sophisticated capabilities are all about building the world better.



## **SCX 2800A-3**





## SCX2800A-3 PERFORMANCE

### Elevate job sites with superior 275 t capacity.

The high-performance 275 t lifting capacity is ideal for building better. A powerful winch for steady operations and high-rigidity boom is complemented with an Eco winch mode for streamlined operations and energy efficiency. The SCX2800A-3 is designed for easier operation in a new age.



#### Max. lifting capacity

Liftcrane : 275 t x 4.3 m

Luffing towercrane : 80 t x 9.3 m

#### Swing neutral brake standardization



During work requiring the cab to swing (when the swing lever is in the neutral position), the operator may choose between free or brake mode depending on the work and personal preferences, making operations so much smoother.

Swing mode selector switch

#### Powerful winch

Equipped with a 13.5 t rated line pull winch for quick and powerful hoisting as well as ample performance for more complex operations. A wide winch drum design minimizes damage to winch ropes.

### Tower head hoisting 80t











#### Tower head hoisting specification without tower jib OPTION

Crane operations are available with the tower head still attached after removing the tower jib. This enables lifting up to 80 t efficiently without having to reassemble the crane top boom, providing a flexible approach to the needs of any work site.

#### 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				
	Std	-1 layer	-2 layers	-3 layers
Lower weight				
Total operating weight	232 t (234 t)	192 t (194 t)	174 t (176 t)	157 t (159 t)
Ground contact pressure	129 kPa (116 kPa)	107 kPa (95.8 kPa)	97.0 kPa (86.9 kPa)	87.5 kPa (78.5 kPa)

Note: Figures in ( ) are when wide shoes (option) are installed. Reduction counter weight specifications are only available with crane specifications (excludes crane jib).

#### Wide 1,260 mm shoes OPTION

Wide shoes are available as an option that are 140 mm wider than the standard shoes. These help to reduce ground contact pressure (by approx. 8%) to suit a broader range of work types.





## SCX2800A-3 CONTROL

### Full command of precision control. Superior operations mean greater peace of mind.

The superior operating comfort of the advanced control system mean smooth movement exactly as intended, with an exceptionally sharp level of control. The result is unprecedented sophistication for lifting and moving, which are the essential requirements of cranes.



#### Tilt cab for better operator visibility

The SCX2800A-3 comes with a cab tilt mechanism that allows the cab to tilt back up to 18° to make moving loads at heights easier. The optimum work position suited to the job ensures the best possible operator visibility.



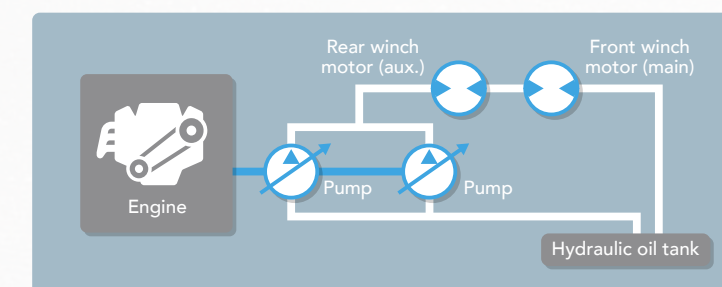
#### Control dials

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 brake operation pedal OPTION

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



#### 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 traveling, 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 that match operating requirements. This helps to achieve a sense of operability that matches the intent of the operator.

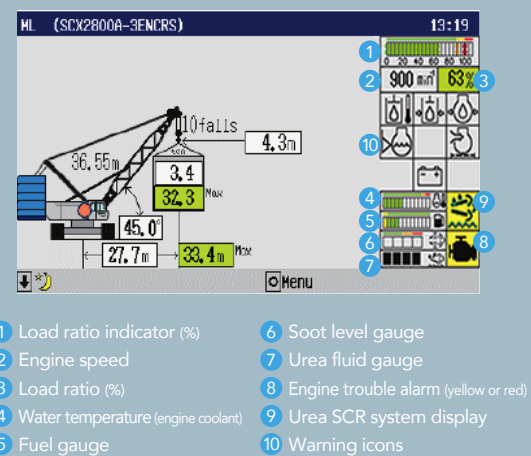


# SCX2800A-3 SAFETY

## Reliability and precision. Enhanced safety for the unexpected.

Better safety should be first and foremost.  
Various accident prevention functions and a host of optional equipment designed for site safety ensure the utmost reassurance and precision.

### Moment limiter display



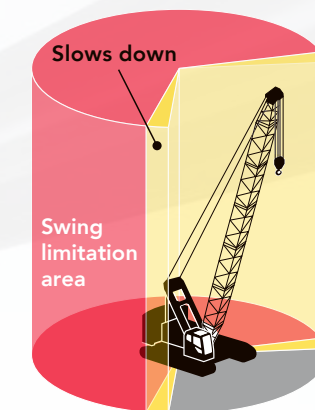
### Moment limiter with large screen display

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

Setting a height restriction with the lifting height meter in advance activates the slowdown function near the height restriction to prevent hook overhoist. This not only ensures safe operation, but is also useful for working at heights or without line-of-sight.

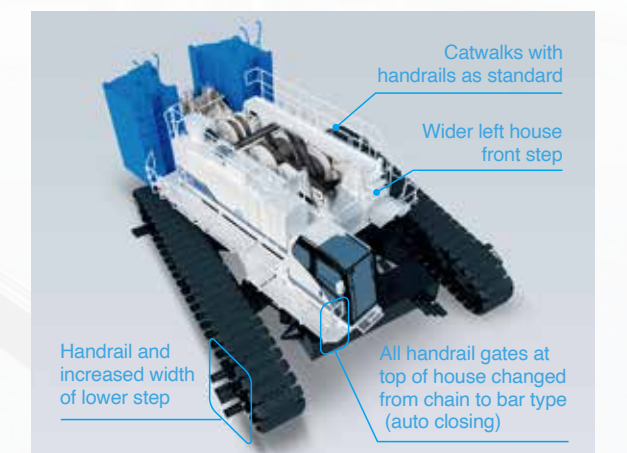
Note) This function plays a supplementary role to the existing moment limiter, and a moment limiter switch is required when using a hook for lifting operations.



**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.



**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.



### 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

- Three color percentage indicator **OPTION**
- Gate lock lever
- Independent winch operation lever locks
- Auto slowdown device
- Winch drum lock (front/rear)
- Engine emergency stop switch
- Anti-two block
- Travel pedal lock



## SCX2800A-3 COMFORT

### Enhanced visibility and smooth operations for greater comfort peace of mind.

Designed to make the stressful job of operators, more stress-free and more comfortable. Excellent visibility is just the start, and with easy-to-use accessories and an ergonomic control layout, the SCX2800A-3 is designed to make things smooth. These all help to reduce operator fatigue, while at the same time increasing comfort and functionality for maximum performance, day-in, day-out.



#### Better visibility in all directions

The cab has extra-wide windows to improve visibility in all directions.

Photos may differ to the specifications of available products.



Wide range of seat adjustments

#### 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.

#### Various items for more comfortable work



Cross operation lever **OPTION**



Wipers with greater sweep area



Sunshade



Cab roof window guard **OPTION**  
The photo is a different color to the standard color (black).



#### Control levers with winch rotation sensor

Control levers feature a winch drum rotation sensor to let the operator sense the drum rotation speed. The slightest movement in loads can be felt directly, making delicate inching operations so smooth.



#### Upper cabin controller

Controllers for the wipers, work lights, drum lock and other functions have been installed higher up near frequently used controls for a more natural layout.

#### Useful and functional interior accessories



Outside-air intake air-conditioner



Cup holder



Radio with Bluetooth®

\* European specification only.

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



Storage shelf



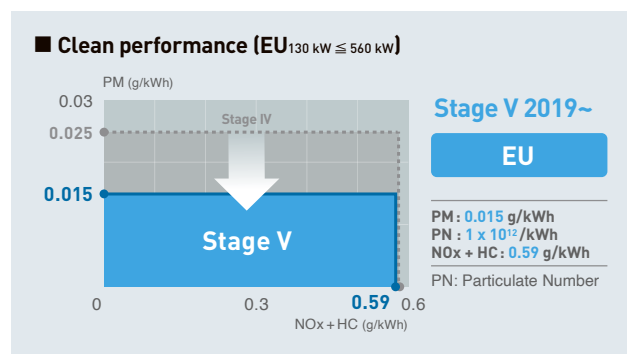
## EU Stage V compliant engine for a cleaner tomorrow.

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 CO<sub>2</sub> 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.

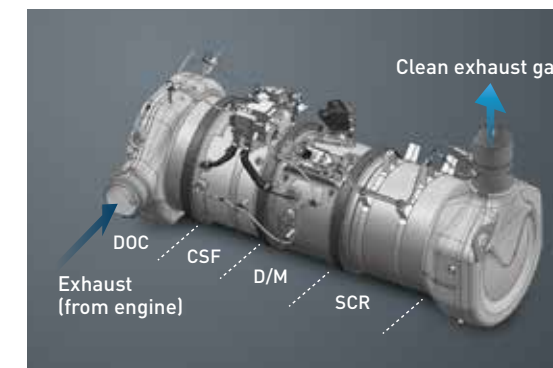


Stage V includes newly proposed limits on particle number.

### 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 NO<sub>x</sub> 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 SCX2800A-3 requires AdBlue® to be refilled once every two times the machine is refueled. 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.

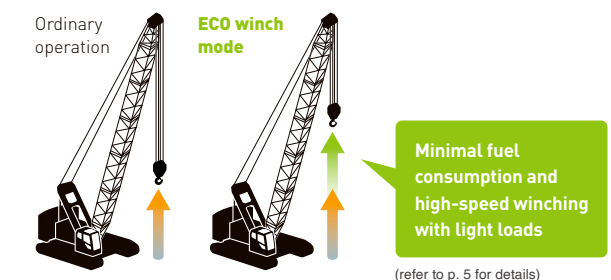
Note: Use HVO that meets European specification EN15940. BDF: Bio Diesel Fuel HVO: Hydrotreated Vegetable Oil. Contact our distributor for more details.



### Other eco-friendly technology to save energy

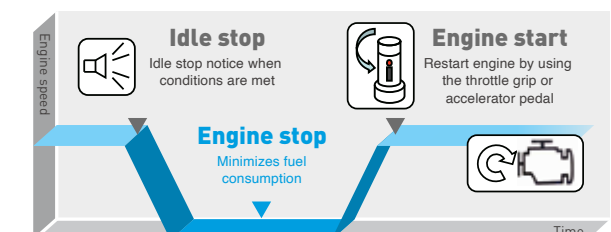
#### ECO winch mode

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



#### 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.



## SCX2800A-3 TRANSPORTABILITY

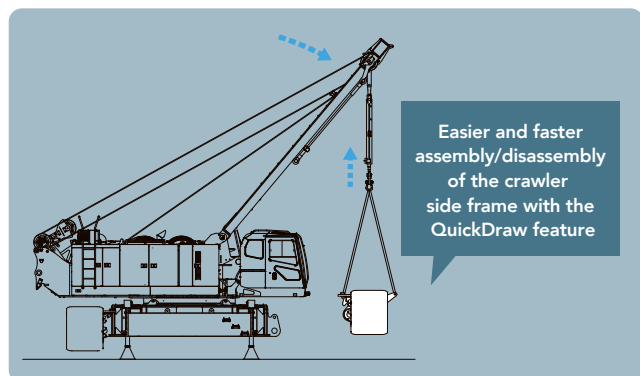
### Superior transportation and assembly for advanced efficiency.

Designed to suit a diverse range of worksites and contemporary job needs, with outstanding crane performance and streamlined transportation and assembly. Complementing the enhanced self-assembly function is a setup process designed to reduce assembly time and maintain safe operations, giving worksites an unrivaled level of efficiency.



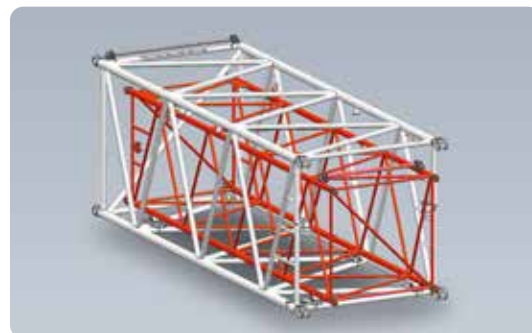
#### Counter weight self-assembly unit OPTION

An optional counter weight self-assembly unit is available to make self-assembly easier and to make the assembly process more efficient. The removable frame can be secured safely from ground level, and the number of counter weight fixing points on the crane has been reduced to further assist assembly.



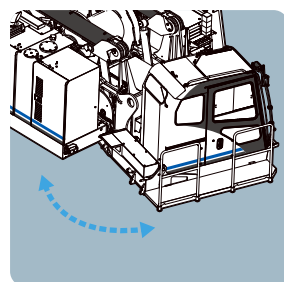
#### QuickDraw® OPTION

QuickDraw is available for self-installation/removal of the heavy crawler side frame, lower weight, counter weight (including base weight), lower boom allowing assembly by smaller helper cranes. Other assembly procedures can be conducted at the same time, which further increases assembly efficiency.



#### Tower jib nesting mechanism OPTION

A new tower jib nesting mechanism is available to stow the tower jib inside the boom insert, achieving more efficient transportation and minimizing required storage space.



#### Swing cab mechanism

A swing cab mechanism has been incorporated as standard to achieve superior crane performance and transportability, allowing operators to switch quickly and easily back to the operating position.



#### Extension boom with hanging lugs

The extension boom features hanging hooks designed to enhance assembly. The extension boom makes checking weight balance and other procedures easier, resulting in quicker assembly (crane boom only).

#### Other devices to assist assembly

- Multi-assembly stage monitoring system
- Hook-on and pin joint crawler side frame
- Easier joint pin insertion/removal

## REMOTE SENSING

### Greater safety and stability for machines working non-stop.



#### 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.



\*Photos may differ to the specifications of available products.