### Specifications

**SCX2800A-3**

<table>
<thead>
<tr>
<th>Make &amp; model</th>
<th>Engine</th>
<th>Rated output</th>
<th>Speeds (rpm)</th>
<th>Swing speed</th>
<th>Travel speed high/low (km/h)</th>
<th>Gradeability (°)</th>
<th>Operating weight (t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCX2800A-3</td>
<td>Cummins QSL9 (Stage IV / Tier 4 f)</td>
<td>272/2,000 (370/2,000)</td>
<td>110 ~ 2 / 30 x 2</td>
<td>30 / 1.5</td>
<td>1.0 / 0.5</td>
<td>110 ~ 2</td>
<td>1120</td>
</tr>
</tbody>
</table>

**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).
Further, Higher. New 275 t.

Building a better society for all, helping to make tomorrow brighter. To achieve such objectives, HSC embarked on development of the 275 t class crawler crane by endowing it with performance to meet a new day and age. Power and precision were of course elements deemed essential for reliable work, but HSC went above and beyond to incorporate additional features: better assembly to boost work efficiency; pioneering fuel efficiency and eco-friendly design; and safety and comfort for both crane operators and site operations. The new SCX2800A-3 delivers a superior level of performance in a more user-friendly package – all for building a better tomorrow. And with time-tested quality and sophisticated capability, the new SCX2800A-3 is all about reaching for higher goals around the world.

The Good Design Award has been granted to the “SCX-3 Series” for its superb operability, ease of transportation and assembly, safety, and eco-friendly performance as a new generation of crane.
High-performance 275 t lifting capacity to boost work sites.

The high-performance 275 t lifting capacity is ideal for building tomorrow. In addition to a powerful winch for steady operations, Eco winch mode also allows for streamlined operations and energy efficiency. Designed with a revolutionary approach for easier operation as well as the availability of wide shoes and reduction counter weight specifications, the SCX2800A-3 is built to meet an increasingly diverse range of job sites.

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.

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 multiple rope hoisting operations and also limits fuel consumption and noise as engine speed can be kept at a minimum.

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.

Reduction counter weight specification

Reduction counter weight specifications are configured to suit crane specifications excluding the crane jib. Reduction counter weight specifications 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).

Wide 1,260 mm shoes

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.
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.

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.

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.

Swing brake operation pedal
A swing brake operation pedal is available to ensure precise swing control under strong-wind situations. This allows brake control to be applied when swinging the cab around, resulting in precise swing control even on the harshest of worksites.

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 that match operating requirements. This helps to achieve a sense of operability that matches the intent of the operator.
Reliable and precise. Advanced safety features for the unexpected.

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 functions and multiple redundant safety devices have also been installed for protection against the unexpected. Work is covered by the utmost safety and reliability with a full complement of advanced safety equipment.

Moment limiter 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 the equipment alone is prohibited by laws and regulations.

Swing restriction unit

The swing restriction unit prevents the crane from swinging into objects by allowing the swing range to be preset, and notifying the operator of the swing range and automatically stopping the crane when required. Together with the restricted swing range function, the result is an added level of safety when working in tight areas.

Drum and rear monitoring camera

An optional drum and rear monitoring camera is useful for keeping an eye on winch conditions. The switchable camera view makes it easy to monitor the movement of each section (6 areas) of the crane. The camera also has a magnetic mount so that it can be relocated for better visuals to suit any working environment.

Designed for safe operation

The auto drum lock function is equipped as standard, to detect when the boom is being controlled and automatically lock the drum when the lever is in the neutral position. Various warnings and alerts when driving and swinging notify the operator and others nearby to minimize accidents caused by carelessness. A boom speed slowdown function is also included.

Catwalk

The catwalk with handrail (option) useful during work features wider steps designed to make operations safer. Catwalk access points have been increased from three to six locations to make it easier to get to the machinery cab and engine house. The catwalks can be retracted for transportation.

Other safety functions and devices

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

*Photos may differ to the specifications of available products.*
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. 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. The wipers now sweep a greater area to make work easier, even when working in rain.

**New large sliding door**

A sliding door and wide platform have been implemented to reduce the amount of space required when opening and closing the door, which makes getting in and out of the cab a breeze. Three steps on the side of the crawler side frame have been used for even better access.

**Various items for more comfortable work**

- Cross operation lever
- Wipers with greater sweep area
- Sunshade

**Highly-functional seat for optimum work position**

The new seats are designed with the ideal shape for a more comfortable seating position. The wide range of seat adjustments means it suits any body shape, for the best work and a relaxing posture. A seat with suspension is available as an optional extra.

**Control levers with drum rotation sensor**

Control levers are designed for better operation with optimization made to the pitch, and a winch drum rotation sensor is also included. Any rotation in the winch is conveyed to the operator via the levers, for full control required for precision hoisting jobs. The result is smooth winching where accuracy is vital, such as positioning bolts with the crane.

**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
- AM/FM radio (with clock)
- Storage shelf
The highest level of clean performance. Environmentally-friendly design to redefine mankind and society.

It is fitting that the most advanced technology is installed in a machine designed to redefine the future of society. The SCX2800A-3 brings together a new cleaner running engine and advanced control system (ECO winch mode, auto idle stop function) for energy-efficient operation. Compliant with EU Stage IV/U.S. Tier 4 Final exhaust gas emission regulations, the SCX2800A-3 also offers exceptional fuel efficiency and outstanding operation and control.

**New clean engine**

The new clean engine featuring the advanced eco technology “Urea SCR System” compliant with EU Stage IV/U.S. Tier 4 Final exhaust gas emission regulations. Compared to the previous model (Stage IIIA/Tier 3), emissions of NOx (nitrogen oxides) and PM (particulate matter) have both been reduced by approximately 90%. In addition to the lowest level of exhaust gas emissions, lower fuel consumption also helps to cut down on CO2 emissions. The SCX2800A-3 represents the path of evolution into a more eco-friendly machine.

**Clean performance (JPN)**

<table>
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<tr>
<th>PM</th>
<th>NOx + HC</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>0.023</td>
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<tr>
<td>0.5</td>
<td>0.174</td>
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**2014~/Stage IV, Tier 4**

<table>
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<tr>
<th>NOx + HC (g/kWh)</th>
<th>PM (g/kWh)</th>
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<tr>
<td>0.59</td>
<td>0.025</td>
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**2006~/Stage IIIA, Tier 3**

<table>
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<tr>
<th>NOx + HC (g/kWh)</th>
<th>PM (g/kWh)</th>
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</thead>
<tbody>
<tr>
<td>2.19</td>
<td>0.2</td>
</tr>
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</table>

**Urea SCR System**

An exhaust gas aftertreatment device that injects AdBlue® (urea fluid) into the exhaust gas to break down NOx gases into harmless water and nitrogen via a chemical reaction. Treating the NOx in the exhaust helps to maintain the engine’s high-combustion efficiency and improve fuel efficiency and power output.

AdBlue® is a trademark of the German Association of the Automotive Industry.

**Precautions with the new clean engine**

- **Always use diesel** for the fuel, specified lower ash oil (DH-2 < JASO, CJ-4 < API) class for the engine oil, and specified engine coolant. The Urea SCR System may undergo automatic regeneration (cleaning) to maintain its performance level.

**Other fuel efficiency technology**

- **Minimizes excess fuel consumption during work**
- **Auto idle stop function**
- **Greater work efficiency by minimizing unnecessary movement with light load work**
- **Auto idle stop function**

**What is AdBlue®?**

The trademark of a high-quality urea aqueous solution standardized in Europe for using the Urea SCR System.

AdBlue® is a registered trademark of the German Association of the Automotive Industry.

**Precautions with machines installed with the Urea SCR System**

To ensure that the machine can be used safely and smoothly, use AdBlue® aqueous solution (or a urea aqueous solution that complies with JIS or ISO standards). Using a non-standard aqueous solution or diluting the solution before use may cause mechanical problems. Malfunctions arising from the use of non-standard aqueous solutions are not covered by the HSC warranty service.

- **The remaining AdBlue® level can be checked during work on the monitor display (Moment Limiter) in the cab.** A warning is displayed on the monitor when the remaining level becomes low. If there is an issue with quality, the engine power output will be limited. If the remaining AdBlue® level falls below the minimum level or if there is an issue with quality, be sure to check the level to advance. **The Urea SCR System is designed exclusively for this machine, and must not be used for any other purpose.**

- **Rinse with water any solution that comes in contact with skin.** **Wash with soapy water solution.** When storing the solution, always use the container that the solution was purchased in, or other specified container. The Urea SCR System includes a heater function, however sufficient care must be taken to prevent freezing when the solution is stored in cold regions. **Freezing temperature: -17°C**

- **Read the instruction manual for more details.**

**Maintenance-free operation**

The Urea SCR System does not include an internal ceramic filter for removing PM; as the high-efficiency combustion of the engine minimizes PM generation. Simply refilling with AdBlue® eliminates the need for any further maintenance on the exhaust system that could affect operations, for a high level of practicality with day-to-day work.
 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.

REMOTE SENSING

“REMOTE SENSING” system installed as standard

Precise monitoring of the crane’s operating condition to minimize downtime and ensure accurate maintenance. Keeping machines in the best possible operating condition helps to improve operating efficiency, while also reducing the time and cost required for maintenance.

- Store data on machine conditions and operations, remote management
- Minimize downtime
- Accurate maintenance
- Better safety

REMOTE SENSING information

Counter weight self-assembly unit

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.

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).

QuickDraw

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.

Hook-on and pin joint crawler side frame

A removable crawler mounting system has been used, which when combined with the simple removable cylinder mechanism makes assembly and disassembly easier, and also ensures safe operations during assembly.

Other improvements to assembly

- Multi-assembly stage monitoring system
- Easier joint pin insertion/removal

*Photos may differ to the specifications of available products.