### Specifications

<table>
<thead>
<tr>
<th></th>
<th>SCX1500A-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. lifting capacity</strong></td>
<td>150 × 4.5 t</td>
</tr>
<tr>
<td><strong>Basic boom length</strong></td>
<td>75 m</td>
</tr>
<tr>
<td><strong>Max. boom length</strong></td>
<td>75 × 27 m</td>
</tr>
<tr>
<td><strong>Crane jib length</strong></td>
<td>75 × 28 m</td>
</tr>
<tr>
<td><strong>Boom + crane jib length</strong></td>
<td>90 × 38 m</td>
</tr>
<tr>
<td><strong>Rope line speeds (1)</strong></td>
<td>64 m/min</td>
</tr>
<tr>
<td><strong>Swing speed</strong></td>
<td>1.8 (1.8) m/min</td>
</tr>
<tr>
<td><strong>Travel speed high/low (2)</strong></td>
<td>30 (17) km/h</td>
</tr>
<tr>
<td><strong>Gradeability</strong></td>
<td>2.5 % (°)</td>
</tr>
<tr>
<td><strong>Bucket capacity</strong></td>
<td>2.5 m³</td>
</tr>
<tr>
<td><strong>Allowable gross weight</strong></td>
<td>103 (1.06) t</td>
</tr>
<tr>
<td><strong>Max. digging depth</strong></td>
<td>103 (1.06) m</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td>Cummins QSB 6.7 (Stage IV / Tier 4 f)</td>
</tr>
<tr>
<td><strong>Max. output</strong></td>
<td>201/2,000 (273/2,000) kW/min</td>
</tr>
<tr>
<td><strong>Ground contact pressure</strong></td>
<td>91 (0.93) kPa/2 g/cm²</td>
</tr>
<tr>
<td><strong>Operating weight</strong></td>
<td>Approx. 126 t</td>
</tr>
</tbody>
</table>

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**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).

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**Address inquiries to:**
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http://www.hsc-cranes.com
LIFT THE WORLD.

The goal was to make valuable contributions in various fields around the world.

To achieve this, HSC created a whole new benchmark for crawler cranes.

With outstanding workability and high-precision operation, the transportation and assembly potential of these cranes increases efficiency to levels never before seen.

The new benchmark has been set – designed to be even more eco-friendly, HSC also takes fuel economy, safety and operating efficiency higher.

Performance that provides comfortable operation to generate value in the lifting world.

Behold the "SCX1500A-3," a new concept of eco-friendly crane designed for worksites of the future.

This new benchmark is set to take the world, business, and even the future, to all new highs.
Introducing a new generation of crane that for ideal workability and performance to suit any work site. The SCX1500A-3 offers users unprecedented work precision and efficiency, and more than ample power for any job. Be in control of a crane that takes performance to new levels, with an uncompromised approach to work.

SCX1500A-3 PERFORMANCE

A high-rigidity boom for the toughest jobs
Both the boom foot width and boom width, as well as the bracing strength, have been increased to improve the strength of the boom itself. This helps to deliver advanced stability during work, to reduce side deflection and twisting throughout the front of the crane, and to make positioning loads quicker. A mast system has been employed to improve operating response.

All-new powerful winch
The power of the 12 t-rated line pull winch (rope φ26 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.

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-hanging operations and also limits fuel consumption and noise as engine speed can be kept at a minimum.

<table>
<thead>
<tr>
<th>Previous</th>
<th>SCX1500A-3</th>
<th>Base</th>
<th>Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>1350</td>
<td>+250</td>
<td>1100</td>
<td>+17%</td>
</tr>
<tr>
<td>2000</td>
<td>+150</td>
<td>1850</td>
<td>+9%</td>
</tr>
<tr>
<td>1250 mm</td>
<td>220 m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Test values obtained with in-house assessments

ECO winch mode is activated automatically using the ordinary control levers if the ECO winch switch is ON and certain operating conditions are met (hook only, 1150 rpm or lower engine speed).

3rd winch
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. A φ2500-3000 class casing driver can also be handled.

A 13.5 t-rated lay-out winch (rope φ28 mm) is optionally available.

* a1Photon may differ to the specifications of each model.
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.

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
A swing brake operation pedal has been positioned in a central location on the left side console. Operations can be adjusted at will to suit the particular job.

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 multiple 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.

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.

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

Swing brake operation pedal
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.

OPTION
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SCX1500A-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.

**Redefining the assembly and disassembly process with the mast system**

The use of a mast system that allows the entire mast to be lowered with the upper spreader structure drastically improves pendant joint work and the boom assembly process. Other features such as a similarly shaped counter weight make assembly and disassembly processes easier, while labor-saving hydraulic hose connections and safe operation mean the crane is an all-round winner when it comes to assembly.

**Hook-on and joint pin design for crawler side frame assembling**

The crawler side frame can be mounted with a side frame joint pin removal cylinder that improve assembly and disassembly immensely. The design also ensures safer work.

**A width suited to trailers results in transportation cost savings**

The crane is less than 3 m wide and weighs less than 30 t, which makes it easier to load on to trailers. This in turn helps to reduce costs related to transportation. A swing cab mechanism has also been employed to increase the boom foot width further, for more reliable crane operation and exceptional ease of transportation.

**Reduction counter weight specification**

Reduction counter weight specification are available as an option 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 self-assembly unit**

A counter weight self-assembly unit has also been installed to make self-assembly easier, and to save time. When the counter weight self-assembly unit has been installed, the shape of the counter weight differs to the standard specification. The rear end swing radius of the crane also increases, as extra care must be taken when operating the crane.

**QuickDraw for efficient assembly and disassembly**

QuickDraw is available that allows self-installing/removal of heavy crawler side frames. This feature allows assembly with smaller helper cranes handling the counter weights (up to 9 t). Other assembly procedures can be conducted at the same time, which further increases assembly efficiency.

**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.**

**Designed for ease of transportation and assembly**

- Crane can be loaded directly on the trailer without wooden blocks
- Lashing lugs during transportation
- Short legs for hydraulic hoses of traveling device
- Sturdy legs for boom lifting
- QuickDraw for efficient assembly and disassembly
- Counter weight self-assembly unit
- Remote control box storage for jack with car body
- Counter weight (piece)
  - 123 (15) 15 t
  - 107 (15) 13 t
  - 99 (15) 11 t

**Note:** Reduction counter weight specifications are configured to suit crane specification excluding the crane jib.
1110

SCX1500A-3 SAFETY

Other safety functions and devices

Folding type upper house handrails
Wider skywalk (made by FRP)

OPTION

OPTION

Slows down here
Designed for safe work

An auto drum lock is installed as standard, which detects boom hoisting operations and automatically applies the lock when the lever is in the neutral position. Various warning alarms and information are conveyed to the operator to help reduce the number of careless accidents. The width of the skywalk (optional extra) has been increased to make assembly easier. All these combine to ensure work is conducted as safely as possible.

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 the equipment alone is prohibited by laws and regulations.

Swing restriction unit

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. This result is an added level of safety when working in tight areas.

Drum and rear view monitor system

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.

Designated for safe work

An auto drum lock is installed as standard, which detects boom hoisting operations and automatically applies the lock when the lever is in the neutral position. Various warning alarms and information are conveyed to the operator to help reduce the number of careless accidents. The width of the skywalk (optional extra) has been increased to make assembly easier. All these combine to ensure work is conducted as safely as possible.

Other safety functions and devices

- Swing restriction unit
- Drum and rear view monitor system
- Folding type upper house handrails
- Slows down here
- Designed for safe work
- Moment limiter with large screen display
- ML Anti-two block
- Swing limitation area

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.
The highest level of clean performance. Eco-friendly to help redefine society.

It is fitting that the most advanced technology is installed in a machine designed to redefine the future of society. The SCX1500A-3 brings together a new cleaner running engine and advanced control system (ECO winch mode, auto idle stop function) for energy-efficient operation. One of the first models to meet EU Stage IV/U.S. Tier 4 Final exhaust gas emission regulations, the SCX1500A-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” was one of the first in the industry to meet EU Stage IV/U.S. Tier 4 Final exhaust gas emission regulations. Compared to the previous model (Stage III B/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 SCX1500A-3 represents the path of evolution into a more eco-friendly machine.

Clean performance (JPN)

<table>
<thead>
<tr>
<th>Year</th>
<th>NOx + HC (g/kWh)</th>
<th>PM (g/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011~/Stage III B, Tier 3</td>
<td>0.025</td>
<td>0.02</td>
</tr>
<tr>
<td>2014~/Stage IV, Tier 4</td>
<td>0.019</td>
<td>0.02</td>
</tr>
<tr>
<td>EU USA</td>
<td>0.016</td>
<td>0.015</td>
</tr>
</tbody>
</table>

* Compared with the SCX1500-2. Approximately 80% reduction in NOx emissions compared to the SCX1500A-3 with previous engine (Stage III B/Tier 4).

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
- ECO winch mode (Refer to P. 5 for 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.

Precautions with the new clean engine

- Always use diesel for the fuel, specified lower ash oil (DH-2 < JASO), or specified engine coolant. The Urea SCR System may undergo automatic regeneration (cleaning) to maintain its performance level.
- 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: -11°C).
- When storing the solution, always use sealed containers and store at room temperature in a well-ventilated location out of direct sunlight.
- 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 or there is an issue with quality. The engine stop function will be limited if the remaining AdBlue® level falls below the minimum level or there is an issue with quality.
- If the remaining AdBlue® level falls below the minimum level or there is an issue with quality, the remaining AdBlue® level may not be displayed on the monitor.
- The Urea SCR System is designed exclusively for the machine, and must not be used for any other purpose.
- Rinse with water any solution that comes in contact with skin.
- Always store the solution in sealed containers and store at room temperature in a well-ventilated location out of direct sunlight. When carrying 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: -11°C). Read the instruction manual for more details.

What is AdBlue®?

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

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 moment when the remaining level becomes low or there is an issue with quality. The engine stop function will be limited if the remaining AdBlue® level falls below the minimum level or there is an issue with quality. If the remaining AdBlue® level falls below the minimum level or there is an issue with quality, the remaining AdBlue® level may not be displayed on the monitor.

Precautions with machines installed with the Urea SCR System

- Wash off any solution that comes in contact with skin.
- Before using the solution, always use the container that the solution was purchased in, or other specified container.
- AdBlue® is a registered trademark of the German Association of the Automotive Industry.
- AdBlue® is a registered trademark of the German Association of the Automotive Industry.
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.

Highly functional seat for optimum work position

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

New large sliding door

A sliding door and wise 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 simpler. Four steps on the side of the crane side frame have been used for easier access.

Optimized lever and switch layout

The pitch of the control lever can be optimised to improve operation with an intuitive and ergonomic switch layout.

Cross operation lever

Cross operation lever is provided for a good, easy and comfortable operation for two main operating parts, boom, fixed jib and swinging. For travelling, two variable levers are provided behind right-hand cross operation lever for operator comfort.

Front operation lever

A front operation lever is also available as an option to suit operator preferences or customer job requirements.

Exceptional peace of mind and convenience for worksites.

Newly developed "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
- Accurate maintenance
- Better safety

*Photos may differ to the specifications of available products.