SH80-6B Hydraulic Excavator

SUMITOMO

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We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
Illustrations may include optional equipment and accessories and may not include all standard equipment.

Engine Rated Power (Net): 41.1 kW \(\cdot\) 55.8 PS
Operating Weight: SH80-6B \(\cdots\) 7,550 kg
Bucket Capacity (ISO Heaped): 0.38 m\(^3\)
Introducing a new style excavator for those users with confidence and pride in their skills, seeking a high level of comfort and performance in their machines. Combining the agile mobility of a compact excavator with a stylish design that is simply stunning, the SH80-6B redefines the meaning of easy usability and solid performance. The largest bucket in its class is designed to deliver exceptional workability and performance. Big style and big work that only Sumitomo can provide - a must-have excavator for those who want to see a real difference on their worksite.

**Unprecedented style and workability**
- Cab designed with unique style
- Equipped with a class top 0.38 m\(^3\) bucket
- Better loading and close proximity work

**Unprecedented comfort and safety**
- Cabin with an exceptional level of comfort
- Major improvements to visibility
- New range of accessories for greater comfort and safety

**Unprecedented reliability and ease of maintenance**
- Ground level access for simple inspections
- Designed for easier day-to-day maintenance

**SH80-6B is here,**
unprecedented comfort and performance
**Advanced capabilities for greater confidence.**

Exceptional performance in a well-styled package, the SH80-6B is equipped with the largest bucket in its class for performance that exceeds other brands. Faster work speed is a given, with control also drastically improved for an excavator that can be easily handled by any worker. Styled to match its performance, the SH80-6B also provides exceptional comfort. Confidence and satisfaction are assured with every moment of use.

**Excellent digging force**

Both the arm and bucket are backed with class-leading digging force for smooth excavation work.

**Greater truck dumping efficiency**

Stronger boom hydraulics for smoother loading operation.

**Better work at close proximities**

Easier when working close to the excavator with the bottom of the bucket. The tips of the bucket and end of the blade overlap to make it easier to scoop up excess soil or rocks.

**Special bucket designed for durability**

The bucket has been designed exclusively for outstanding durability in tough environments, with features such as more effective use of stronger and thicker plates. Bucket pins use oil-impregnated sintered bushes designed for a long operating life.

**Designed for excellent access**

Wider door openings together with larger handrails and non-slip plate provide better access to the cab.

**Engine compliant with U.S. EPA Tier 3 and Euro Stage III A exhaust gas regulations**

The SH80-6B is powered by an engine for high power and outstanding eco-friendly driving. Compliant with U.S. EPA Tier 3 and Euro Stage III A exhaust gas regulations, the engine is also user-friendly with electric control governor and EGR system which contributes to excellent fuel efficiency to help reduce running costs.

**Luxurious cab styling for great on-site presence**

Cab concepts from other models are taken into new design for more comfortable cab and makes the excavator instantly stand out during work. The SH80-6B ooze presence on any site.

**High-rigidity cab to protect against rollovers**

A stronger cab frame and other improvements drastically increase cab rigidity for further safety during unexpected rollovers.

**Wiper with rise-up mechanism**

A wiper with rise-up mechanism has been used for better performance in the rain. This increases visibility when the wiper is sweeping, as the arm stay out of the way.

**Cooled EGR system (air-cooled)**

An air cooler is equipped with the EGR (Exhaust Gas Recirculation), which reduces the volume of exhaust gas by recirculating it. Increasing the EGR volume to limit combustion temperature helps to reduce NOx and fuel consumption even further.

**One-touch idle and auto-idle function**

Comes equipped with Sumitomo’s proprietary one-touch idle and auto-idle functions, which help to minimise unnecessary fuel consumption and cut back fuel costs.

**Ample 120 L capacity fuel tank**

The high capacity fuel tank and low fuel consumption mean a longer time between refueling, and thus longer operation.
Safe and comfortable cabin for amenity and authority.

Thoroughly designed with the operator in mind, the new cab design of the SH80-6B improves operating visibility and safety with a wide, spacious interior reminiscent of larger class models. A full range of accessories are also available for added comfort, like reclining seats and auto air-conditioning. An unprecedented level of luxury ensures peace of mind during work, and ultimate relaxation during breaks for an all-round quality experience.

Cabin designed for comfort and reduced stress

A supreme interior finish that goes well beyond its class, super-comfortable seats and an ergonomically-arranged equipment layout. The SH80-6B interior is engineered for stress-free operation no matter how long the work is.

Functional meters and switch panel

Simple, easy-to-read meters have been used. The switch panel has been designed to be read and controlled easily with its universal design.

Comfortable reclining seat

The operator’s seat comes with a full-range adjustment mechanism to ensure the optimum operating position, while the wider seat area is designed to reduce fatigue. Reclining is available over a larger range of angles, making rest times much more rewarding.

Cab mounts for increased comfort

The fluid mounts efficiently absorb shocks and vibrations being transmitted throughout the cab to increase comfort and reduce fatigue.

Ultra water and stain resistant seat

Seats with an excellent level of water-resistance have been used to protect against rain, dust and dirt with a water-repelling seat texture designed for a wide range of worksites.

Superb operating visibility for a safer worksite

The new cab and single glass sheet on the right ensure excellent operating visibility. The wide, unobstructed view means better safety for all.

AM/FM stereo radio (with USB & AUX port)

An AM/FM stereo radio has been provided to enhance enjoyment. The USB and AUX ports allow users to listen to their favorite music through the radio speakers.

Auto air-conditioning for greater comfort

An auto air-conditioning system is installed as standard for greater comfort by optimising the layout of the air channels. The air vents feature round grills that can be adjusted over a wide range of angles, and the entire system is designed for greater comfort in the cabin to help reduce operator fatigue.

 Truly spacious interior

Interior space has been greatly enlarged over the previous model (SH75-3B). A wide seat adjustment range means operators can customise the seat to their optimum position, regardless of their frame.

Truly spacious interior

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Cross-sectional view

Front window to seat: +200 mm

Foot space: +60 mm

Seat height adjustment

Total sliding range

Seat sliding range

Seat adjustment function

Silicon oil

*Compared with the previous model, SH75-3B

Main accessories for increasing comfort

- Right-side clock
- Front-side clock
- Interior lamp linked to door operation
- Cigarette lighter
- Large ashtray
- Rear luggage space
- Handy storage pockets
- Hot & cool box
- Cup holder
- Emergency stop switch
- Magazine rack

Multifunctional storage compartments

- Front luggage space
- Pen pocket
- Hook
- Key ring
- Handy storage pockets
- Emergency stop switch

Safety accessories for the unexpected

- Right-side clock
- Front-side clock
- Interior lamp linked to door operation
- Cigarette lighter
- Large ashtray
- Rear luggage space
- Handy storage pockets
- Emergency stop switch

AM/FM stereo radio (with USB & AUX port)

An AM/FM stereo radio has been provided to enhance enjoyment. The USB and AUX ports allow users to listen to their favorite music through the radio speakers.

Auto air-conditioning for greater comfort

An auto air-conditioning system is installed as standard for greater comfort by optimising the layout of the air channels. The air vents feature round grills that can be adjusted over a wide range of angles, and the entire system is designed for greater comfort in the cabin to help reduce operator fatigue.
Ease of maintenance to minimise work interruptions.

Easy maintenance and tough durability are essential for an excavator to work for a long time. The SH80-6B provides ground level access that makes daily maintenance and management so much easier. High level of cooling performance required for peace of mind during heavy lifting, better durability of each part, longer operating life of joints and a whole host of other mechanical improvements have been made to every component. Reliability for non-stop work is another quality feature that makes a positive difference.

Components requiring inspections are located at centre so that inspections, maintenance, cleaning and refilling work can be conducted without having to climb onto upper structure of the excavator. Outstanding cleaning capability helps to improve reliability under high load work and makes the dustproof net easier to clean.

One-touch release front face protection net for radiator

The front face protection net for radiator can be removed for cleaning. Trapped dust, dirt and other material can be cleaned off to clear blockages and restore engine cooling performance.

Easier to clean cab floor

The edges around the floor mat are higher, and the addition of a lip makes it easy to wash clean the dirty cab floor with water.

Unprecedented reliability and ease of maintenance

Body design for easy maintenance

A lightweight, high-rigidity and high-strength type structure has been used for the boom and arm that is essential for excavator operations. This helps to increase work precision, as well as ensure more than adequate durability for a wide range of worksites and heavy loads.

EMS for outstanding maintenance of joints

The new EMS (Easy Maintenance System) uses newly designed steel bushes and keeps joints constantly lubricated, with 250-hour greasing intervals around the bucket, and 1,000-hour greasing intervals for other sections. This reduces wear and rattling, and significantly extends the service life of the components.

Even greater rigidity

A high-performance return filter has been used for a hydraulic oil change interval of 5,000 hours, and filter service life of 2,000 hours, thus reducing maintenance work and cost.

High-performance return filter for extending maintenance intervals

A high-performance return filter has been used for a hydraulic oil change interval of 5,000 hours, and filter service life of 2,000 hours, thus reducing maintenance work and cost.

Even greater rigidity

A high-performance return filter has been used for a hydraulic oil change interval of 5,000 hours, and filter service life of 2,000 hours, thus reducing maintenance work and cost.

High-rigidity swing frame

A single plate high-rigidity swing frame has been used. This helps protect equipment and hoses from sharp objects beneath the frame.

Increased track link M-type seal + pin rigidity

M-type seals with excellent sealing characteristics help to retain grease for longer. Increased hardness also helps to reduce pin areas. The result is a longer link service life and less operating noise.

Precautionary use of EMS

1. Greasing is recommended every 250 hours or six months depending on the level of dusting conditions.
2. Greasing is also necessary after any components have been removed or assembled for prolonged periods.
3. Cleaning should be carried out after use with hydraulic breakers, crushers or other high impact attachments such as rock saws.
4. The front face protection net should be cleaned thoroughly when removing or attaching new bushes.
### Main Equipment

#### [Hydraulic system]
- High-performance cleaning filter
- Automatic 2-speed travel
- Aux. valve

#### [Safety equipment]
- Rearview mirror (left/right)
- Engine neutral start function
- Seat belt
- Travel alarm
- Engine room firewall
- Fan guard
- Engine emergency stop switch
- Gate lock lever

### Main Specifications

<table>
<thead>
<tr>
<th>SH80-6B</th>
<th>SH85-6B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>0.38 m³</td>
</tr>
<tr>
<td>Engine name</td>
<td>Yanmar 4TNV98-Z</td>
</tr>
<tr>
<td>Rated output</td>
<td>41.1 kW/2000 min⁻¹</td>
</tr>
<tr>
<td>Displacement</td>
<td>3.318 L (3318 cc)</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Total transportation length</td>
<td>6 090 mm</td>
</tr>
<tr>
<td>Total transportation width</td>
<td>2 320 mm</td>
</tr>
<tr>
<td>Total transportation height</td>
<td>2 750 mm</td>
</tr>
<tr>
<td>Total crawler length</td>
<td>2 845 mm</td>
</tr>
<tr>
<td>Total crawler width</td>
<td>2 320 mm</td>
</tr>
<tr>
<td>Standard shoe width</td>
<td>450 (grouser shoe) mm</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td></td>
</tr>
<tr>
<td>Travel speed: high/low</td>
<td>5.0/3.1 km/h</td>
</tr>
<tr>
<td>Gradeability</td>
<td>70% (35°)</td>
</tr>
<tr>
<td>Swing speed</td>
<td>11.3 min⁻¹</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>56.4 kN</td>
</tr>
<tr>
<td>Bucket arm force</td>
<td>39.3 kN</td>
</tr>
<tr>
<td><strong>Hydraulic equipment</strong></td>
<td></td>
</tr>
<tr>
<td>Pump type</td>
<td>1 x double variable displacement axial piston pump</td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>20.4 MPa</td>
</tr>
<tr>
<td>Travel motor</td>
<td>2 x variable displacement axial piston motors</td>
</tr>
<tr>
<td>Parking brake</td>
<td>Mechanical lock</td>
</tr>
<tr>
<td>Swing motor</td>
<td>1 x fixed displacement axial piston motor</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>120 L</td>
</tr>
<tr>
<td>Hydraulic oil tank capacity</td>
<td>51 L</td>
</tr>
</tbody>
</table>

### Accessories

#### STD specifications
- 450 mm grouser shoe
- 600 mm grouser shoe
- Lower under cover
- Blade
- AM/FM stereo radio
- 12 V power (DC-DC converter)
- Cab head guard (FOPS level 2)
- Cab-top lights
- Boom foot light

#### Optional specifications
- Seat suspension
- Fluid mounts
- Full-automatic air-conditioner with external air intake
- Water-resistant operator's seat
- Interior lamp (with auto-off function)
- AM/FM stereo radio (with USB & AUX port)
- Floor mat
- Armrest and headrest
- Defroster
- Wiper with rise-up mechanism
- Cup holder
- Clock
- Magazine rack
- Accessory case
- Ashtray and cigarette lighter
- Coat hook

### Dimensions

#### Working Range

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<td>New EMS (Easy Maintenance System)</td>
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<tr>
<td>Long-life hydraulic oil</td>
</tr>
<tr>
<td>Front face protective net for radiator</td>
</tr>
<tr>
<td>Tool kit</td>
</tr>
<tr>
<td>Grease gun</td>
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<tr>
<td>One-touch idle and auto-idle function</td>
</tr>
<tr>
<td>Two lights (top of cab, left of boom)</td>
</tr>
<tr>
<td>Fuel filter</td>
</tr>
<tr>
<td>Fuel pre-filter</td>
</tr>
<tr>
<td>Fuel-water separator</td>
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<tr>
<td>Double-element air cleaner</td>
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<tr>
<td>Grease-enclosed links</td>
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<tr>
<td>Bucket anti-clatter</td>
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<tr>
<td>Toolbox</td>
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### Accessories (option)

- Head guard (FOPS level 2)
- AM/FM stereo radio
- 12 V power