

SUMITOMO

# SUMITOMO

## SH 250-6

- Engine Rated Power (Net): 132.1 kW-179.6 PS
- Operating Weight:  
SH250-6 ..... 24,800~25,400 kg
- Bucket: ISO/SAE/PCSA Heaped: 0.8~1.3 M3



**SUMITOMO (S.H.I.)  
CONSTRUCTION MACHINERY CO., LTD.**

731-1 Naganumahara-cho, Inage-ku, Chiba, 263-0001 Japan  
For further information please contact: Phone : +81-43-420-1829 Facsimile : +81-43-420-1907

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.

# *Performance Refined. Evolution Defined.*



## **ENGINEERED IN JAPAN**

The world knows that Japanese designed and engineered products represent the highest quality, especially for Industrial Products. The hydraulic excavator is no exception when a totally integrated concept is required in design work involving key components, manufacturing engineering, and product quality assurance in the factory. SUMITOMO hydraulic excavators are designed and manufactured today to meet the global demands of our many customers with the concept of Performance, Reliability, and Fuel Efficiency foremost in our minds. This proven Japanese technology and quality gives SUMITOMO excavator customers total peace of mind and provide a complete solution for the demands of the construction industry.

## **Engine and Hydraulics** 04-07

- New Generation Engine System "SPACE 5+"
- New Hydraulic System "SIH:S+"
- SUMITOMO Fuel Efficiency Technology
- Drastically Increased Productivity

## **Durability and Maintenance** 08-11

- High Rigidity Attachments
- EMS
- Ground Level Maintenance

## **Safety and Operator Comfort** 12-17

- Stylish and Spacious Cabin
- High-Definition Full Colour LCD Monitor

## **Specifications** 18-27



**Performance Refined.  
Evolution Defined.**



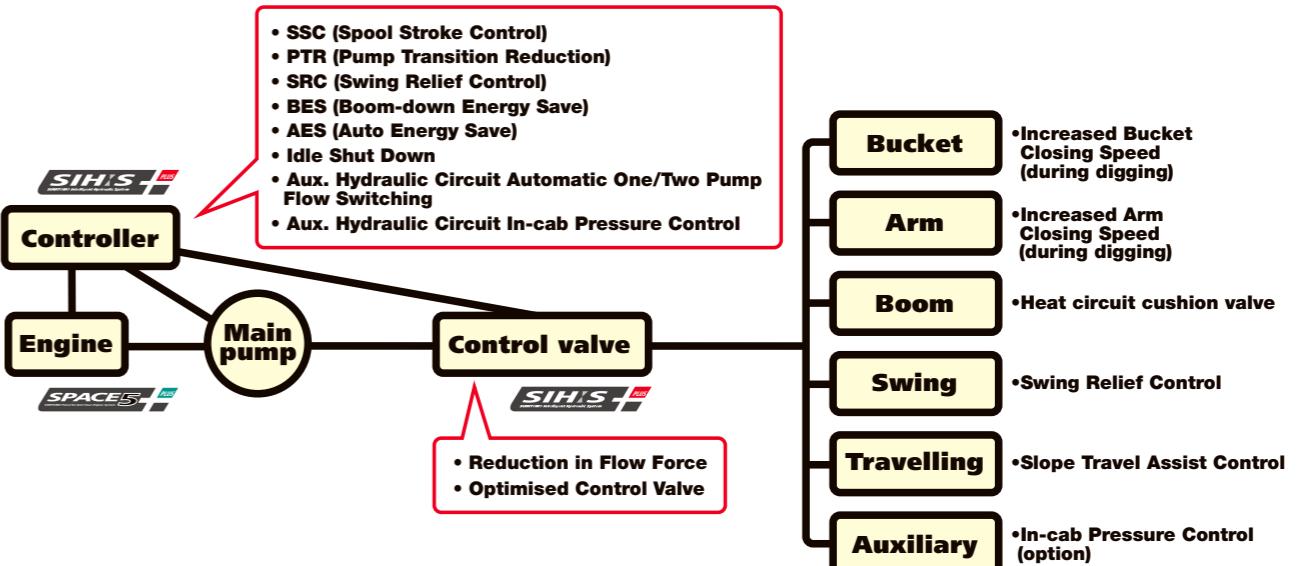
New Engine System  
**SPACE 5+<sup>PLUS</sup>** + New Hydraulic System  
**SIH:S+<sup>PLUS</sup>** = **12% Reduction in Fuel Consumption**  
(as compared with SH240-5 [H mode])

#### New Generation Engine System "SPACE 5+"

The new engine system optimises fuel efficiency and environmental performance via the advanced common rail fuel injection system, cooled EGR system, and turbocharger. At the same time, excellent response times are achieved.

## Engine and Hydraulics

SH250-6 has achieved a 12% fuel saving in comparison with our DASH 5 series, by fusing the new generation engine system "SPACE 5+" and the new hydraulic system "SIH:S+", further refining fuel efficiency. At the same time the newly developed ISUZU engine, contributes greatly to the environment.



#### Mode Selection by Throttle SUMITOMO UNIQUE DESIGN

There are three working modes available:  
SP (Super Power) for heavy duty applications,  
H (Heavy) for normal working conditions,  
A (Auto) for a wide range of operations.



#### Further Improvement of Fuel Consumption

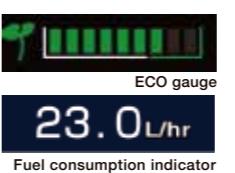
The new technology has improved operations and reduced fuel consumption on each working mode.

- **SP mode** **3% reduction in fuel consumption**
- **H mode** **12% reduction in fuel consumption**
- **A mode** **12% reduction in fuel consumption**

(as compared with SH240-5)  
\*Fuel consumption may vary from time to time depending on site and working conditions, operator skill and other circumstances.

#### ECO Gauge Showing Low Energy Operation

The energy saving conditions can be seen at a glance, as well as the fuel consumption indicator shown on the monitor.



#### SUMITOMO Technology for Fuel Efficiency

- **SSC (Spool Stroke Control)** SUMITOMO UNIQUE DESIGN  
Reduces engine load upon heavy duty operation.

- **BES (Boom-down Energy Save)** SUMITOMO UNIQUE DESIGN  
Lowers engine speed upon boom-down and swing operation which does not require large oil flow.

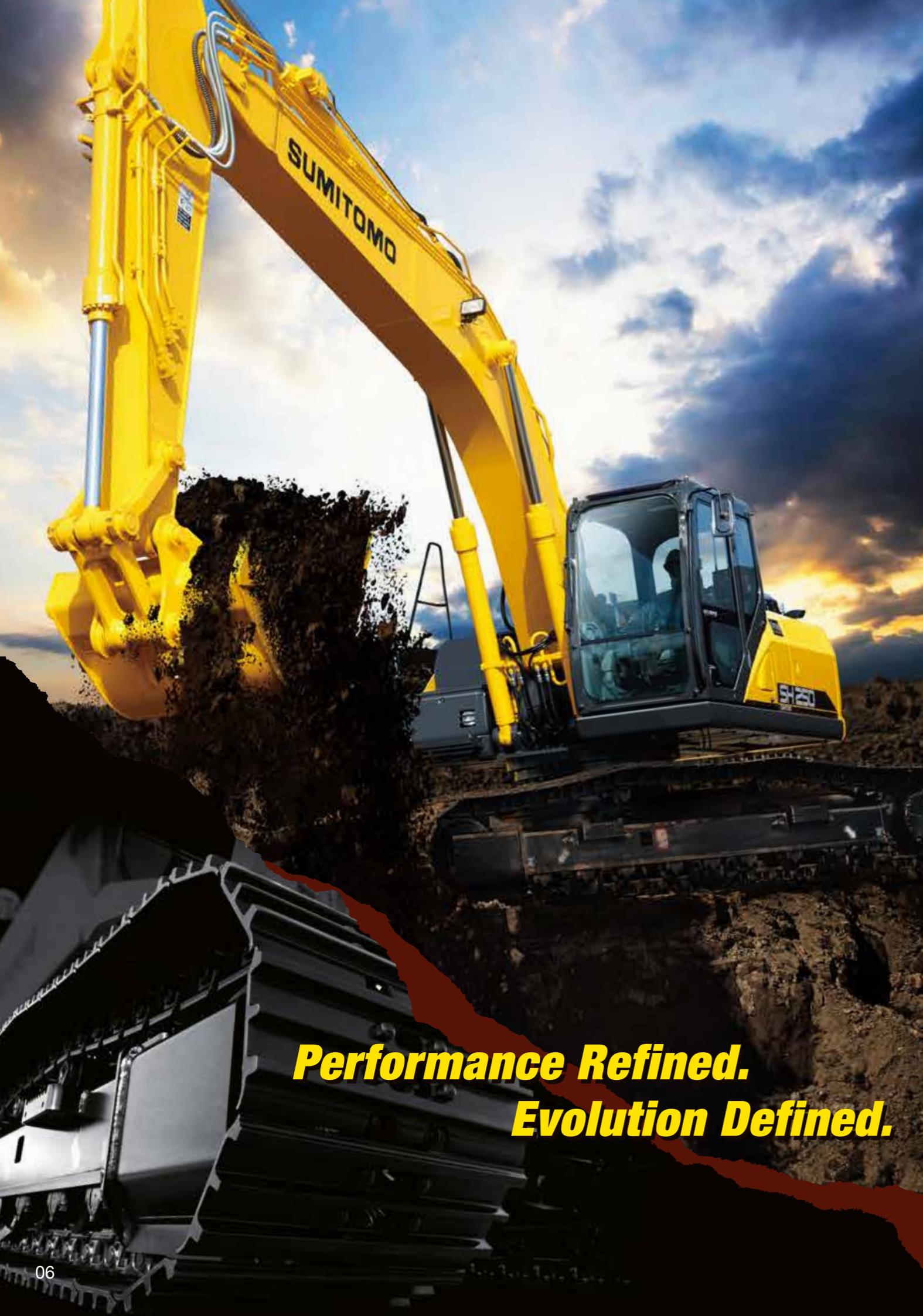
- **AES (Auto Energy Save)** SUMITOMO UNIQUE DESIGN  
Lowers engine speed accordingly when low engine load is sensed.

- **PTR (Pump Transition Reduction)**  
Decreases engine load when the pump flow requirement is reduced upon abrupt pump load.

#### ● Idle Shut Down & Auto Idle

Upon activation, idle shut down automatically shuts the engine down when the machine is not in operation for set amount of time. Auto Idle is also available, which makes the engine begin idling approximately five seconds after the operation levers are in neutral position.





**Performance Refined.  
Evolution Defined.**

## Engine and Hydraulics



SUMITOMO's original technology Spool Stroke Control (SSC), perfectly matches the engine and hydraulic power, and further improves the operational speed whilst maintaining smooth control of the machine.

### Work Efficiency Drastically Increased SUMITOMO UNIQUE DESIGN

Spool Stroke Control (SSC) variably controls spool port flow rate, depending on the condition of operation. Improved power, speed, and smoother controls mean that work efficiency is dramatically increased.

### 4% Faster Cycle Time (SP mode)

Speed increase by 4% in cycle time has been achieved, giving further advance in productivity (as compared with SH240-5 [SP mode]).

### Real Digging Power

The true digging force can not be expressed by a maximum digging power figure listed in sales brochures. With an improved hydraulic system and with a large arm cylinder, the arm-in motion speed slowdown is minimised. The digging power when combined with the attachment speed in motion convert to the operator's "Real Digging Power".

### Automatic Power Boost

The digging power increases automatically in quick response to the working conditions during heavy-duty digging work. This is a design unique to SUMITOMO, and continues for eight seconds (SP/H mode).

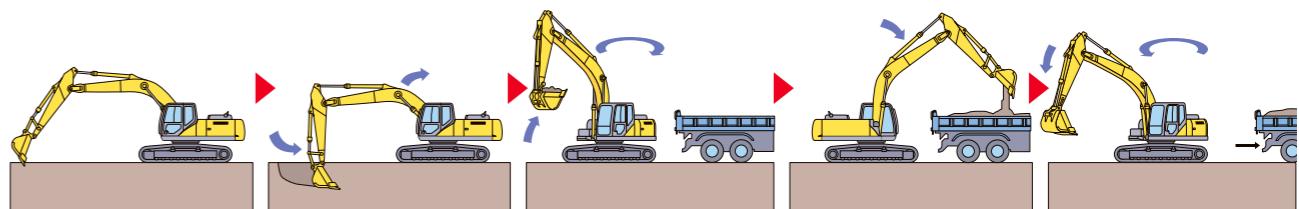
### Remarkable Combined Operation

Prevents rapid deceleration upon combined operation such as boom/arm operation with travel, ensuring stable performance.

### Auxiliary Hydraulic Circuit

Selection of auxiliary circuit has been made easier. Correct pump flow (one pump or two pump) will automatically be activated upon operator's selection of the circuit. In-cab pressure control (option) also available.

### Speed and Power, Increases Productivity



\*Based on SUMITOMO's testing condition and results.

### Operating Condition Easily Viewable on Display

Various control such as working modes and auxiliary hydraulic setting can be easily selected by the universally designed switch panel, and what's being selected can be easily viewed on the 7" wide monitor.





## Durability and Maintenance

### EMS (Easy Maintenance System) as Standard

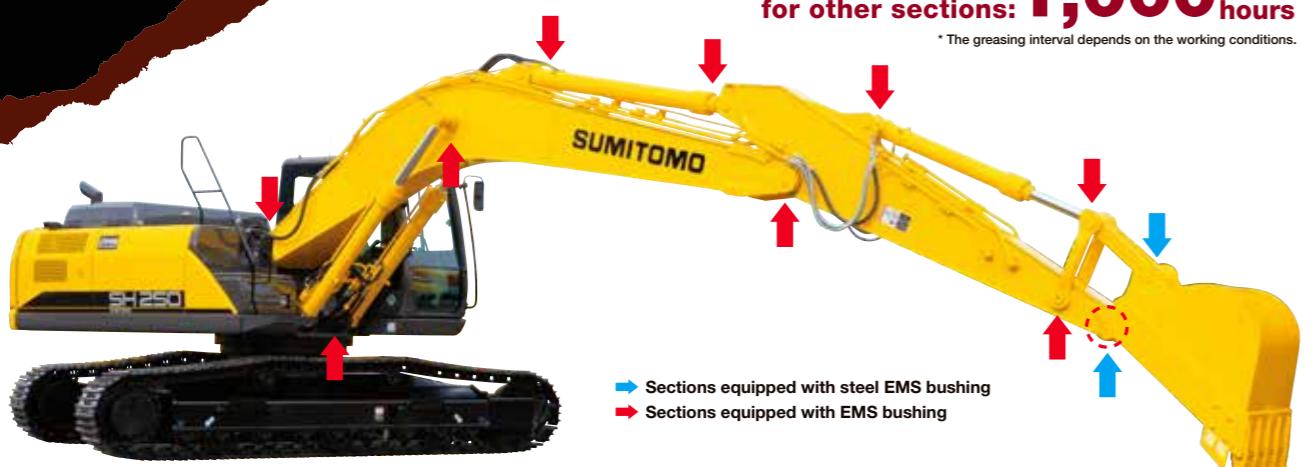
SUMITOMO's EMS keeps the pins and bushes fully lubricated at all times and prevents rattling. This system significantly extends the service life of the pins and bushes.

The lubrication interval around the bucket is 250 hours, and for the other sections is 1,000 hours, keeping the joints lubricated for a long time and extending the service life of parts by reducing abrasion and rattling.

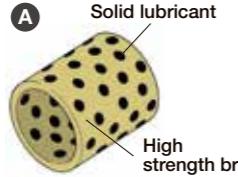
**• Bucket greasing interval: 250 hours**

**• Greasing interval for other sections: 1,000 hours**

\* The greasing interval depends on the working conditions.



#### ■ EMS bushing



A A solid lubricant embedded in high strength brass forms a layer on the bushing surface to prevent contact between metals, maintaining an excellent lubricated state to reduce abrasion of joints.

B The surface of the pin is plated to increase the surface hardness and improve the wear resistance accordingly.

① Grease is enclosed, however greasing is necessary every 1000 hours or six months depending on the level of dusting conditions.

② Greasing is also necessary after any components have been submerged underwater for prolonged periods.

③ Greasing is also recommended after use with hydraulic breakers, crushers or other high impact attachments such as Rock Saws etc.

④ Bucket pins should be cleaned thoroughly when removing or attaching new buckets.

#### Precautionary use of EMS

#### ■ Steel EMS bushing



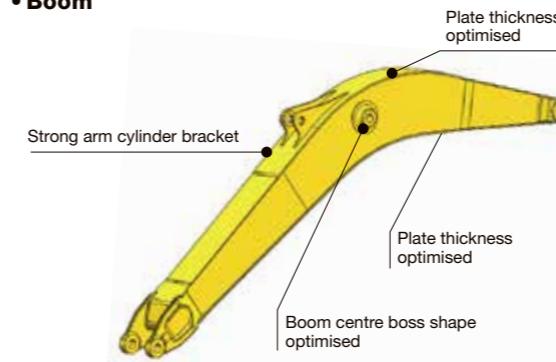
Steel EMS is installed around the bucket

### High Rigidity Attachments

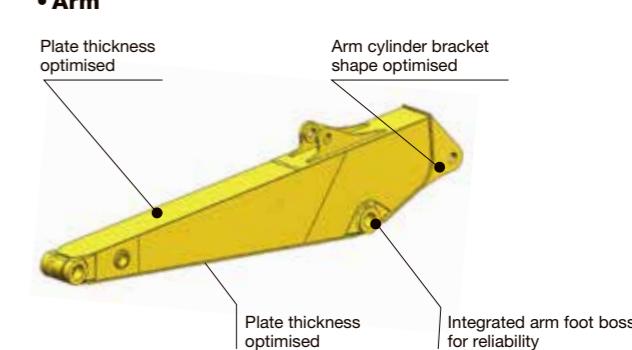
The structure of the boom and arm is designed for strength and durability.

In addition, high strength castings are used for the boom base and arm end for reliability.

#### • Boom

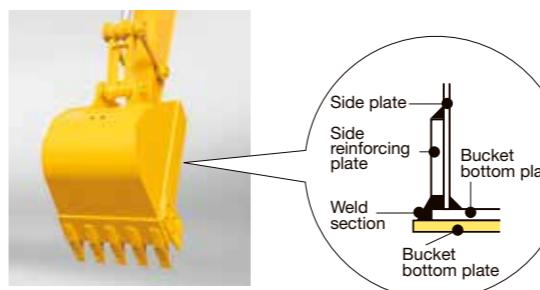


#### • Arm



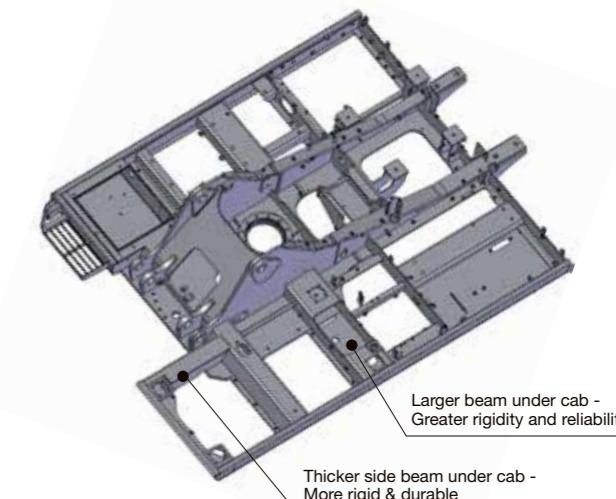
### Bucket

A one-piece wear plate covers the weld section for long increase the wear life of the bucket.



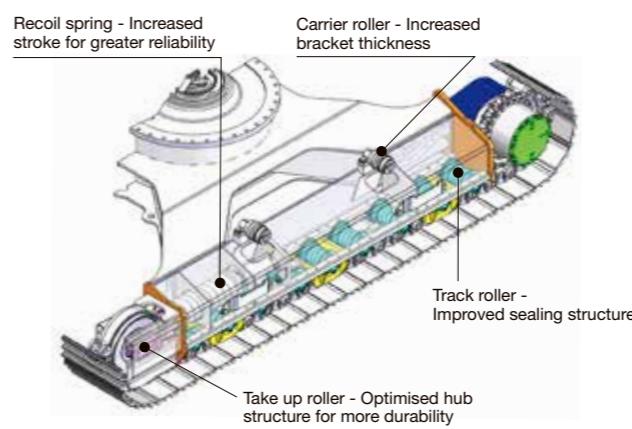
### High Rigidity Swing Frame

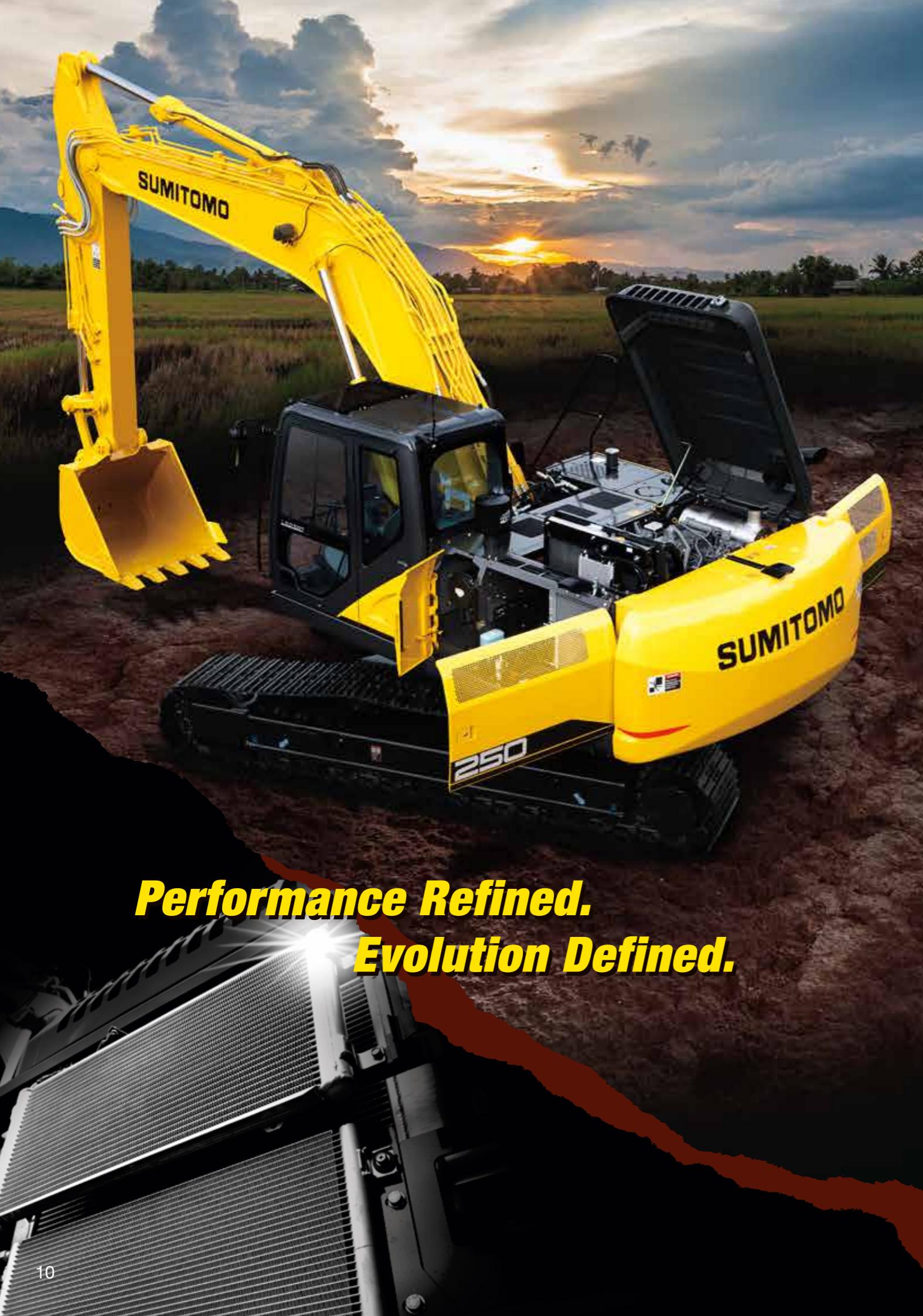
The swing frame has been strengthened to support the new ROPS cabin, as well as to increase durability.



### High Rigidity Undercarriage

For improved mobility, the track system has been strengthened ensuring longer wear life, performance, and improved reliability.





## Durability and Maintenance

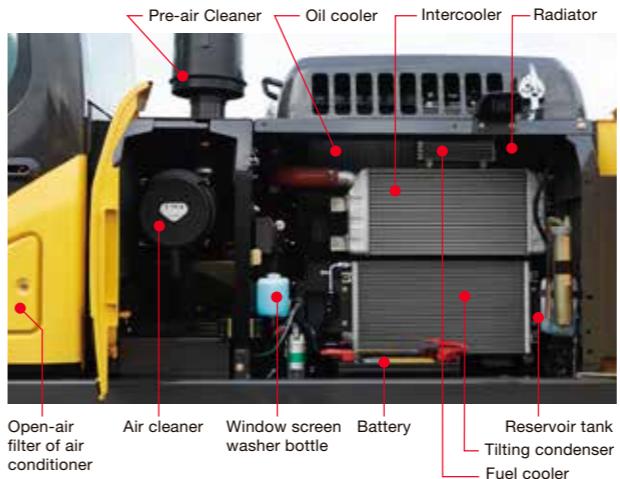
**Serviceability and durability are also important points of machine performance. Ground level access to the engine area makes daily maintenance extremely straightforward. Reliability has been further enhanced by increasing cooling capability and durability.**

### Ground Level Access to Engine Area Improves Preventative Maintenance

Parts cleaning and maintenance are possible from the ground without climbing onto the upper structure of the excavator body.

- **Increased Cooling Capability**

With the larger radiator and oil cooler, cooling capacity is increased, thus improving reliability. In addition, cleaning of the dust-proof net is simplified.



### High-Performance Return Filter

The hydraulic oil change interval is 5,000 hours, and the return filter change interval is 2,000 hours. One high performance return filter keeps the same level of filtering as a nephron.



- **Hydraulic oil change: 5,000 hours**

- **Life of filter: 2,000 hours**

\* The oil and filter change interval varies by the working conditions.

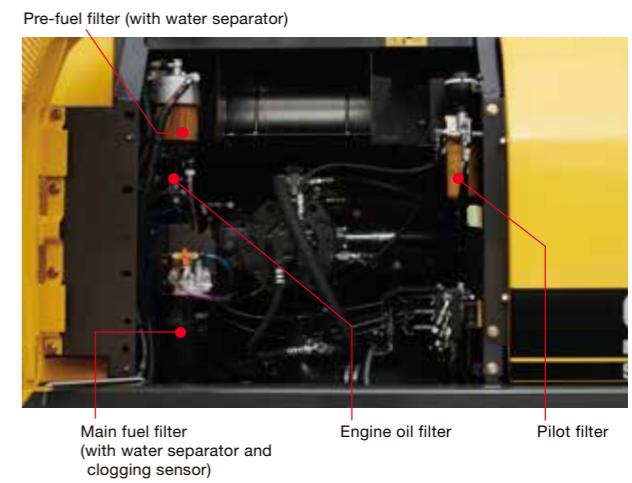
### Cab Floor Mat SUMITOMO UNIQUE DESIGN

The washable floor mat has been redesigned for ease of removing and cleaning.



- **Easy Filter Replacement**

A fuel prefilter with water separator and water level sensor are provided as standard equipment to reduce maintenance trouble. In addition, the fuel and oil filters are installed at ground-accessible location to facilitate replacement.



### Pre-air Cleaner (option)

An automatic exhaust type pre air cleaner option is available. The air cleaner cleaning frequency is minimised, even when operating in dusty conditions.



### Easy Access to A/C Filter

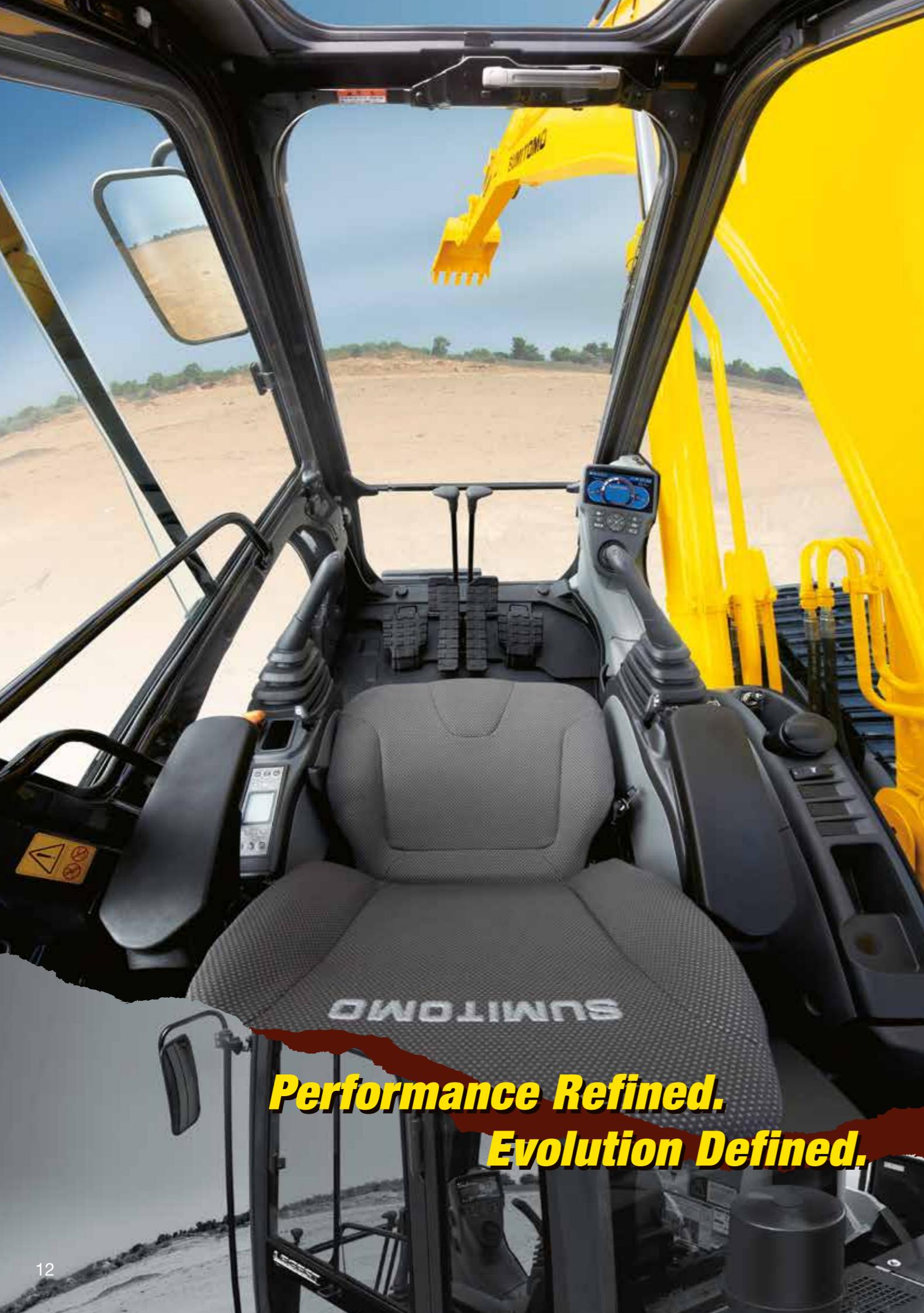
The air intake filter is located in a lockable compartment to make it easier to replace, and access to the inside cab filter has been simplified.



### Fuse Box Location

The fuse box has been located in a separate compartment behind the seat, allowing easier access.



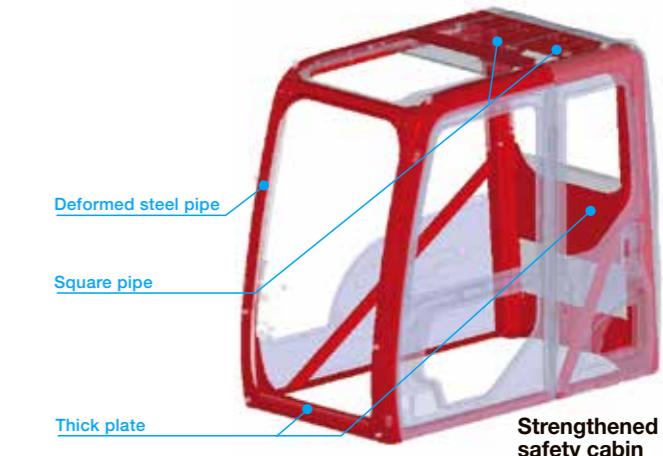


## Safety and Operator Comfort

**Planning for safety in the event of a roll accident, a new strengthened safety cabin has been provided. The reinforced cabin greatly increases the operator's safety.**

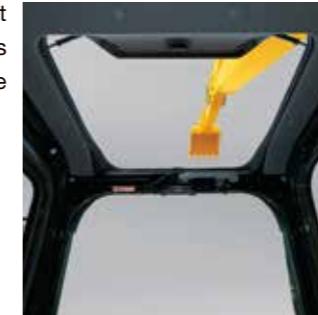
### Newly Designed Strengthened Safety Cabin

The optimised design and strengthened parts increase the overall cabin strength. Even if the shovel were to tip over, the safety of the operator is ensured by keeping cabin deformation to a minimum.



### Wide View Increases Safety of Work

In addition to the wide front view, the upper view has been widened to enhance work safety.



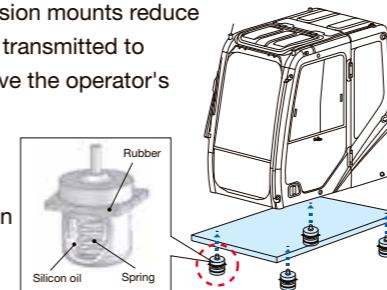
### Safe and Easy Entry into and Exit from the Cab

A large handrail for easy opening/closing of the door and increased floor space permit the operator to get in and out of the cab easily.



### New Cab Suspension Mounts

The new cab suspension mounts reduce vibration and impact transmitted to the cabin, and improve the operator's sitting quality and reduce operator fatigue. The sealed and pressurised cabin prevents entry of dust from outside.



### New OPG Level 2 Head Guard (option)

OPG Level 2 head guard is available as an option. The see-through grille has been redesigned for better protection and visibility.



### Easy Access to the Upper Structure



### Cab Front Guard (option)

Optional cab front guard improves operator's safety from job site hazards.

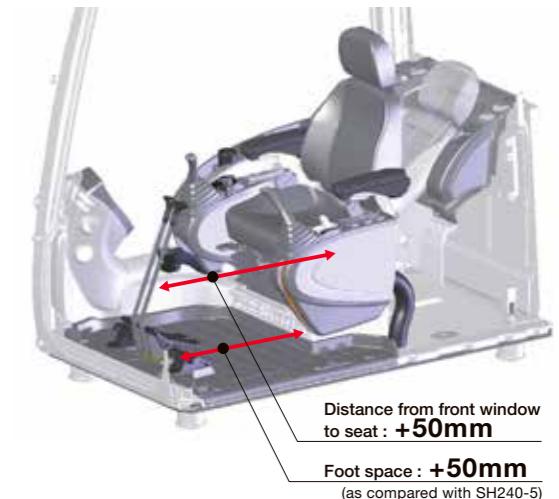


## Safety and Operator Comfort

**The spacious cab on suspension mounts and reclining suspension seat softens operator fatigue and provide a relaxed environment.**

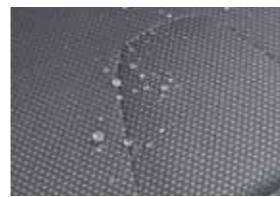
### Stylish and Spacious Cab

Wide cab space and floor space ensure more comfortable operation. In addition to the tilting console that is adjustable in four steps vertically, the increased sliding distance ensures optimum working conditions. Moreover, in cab noise level has been reduced by 2 dB (as compared with SH240-5).



### Sophisticated Reclining Seat

The seat reclining system allows the operator to lay the seat flat and to rest on site without having to remove the headrest. The suspension seat eliminates vibration and fatigue. Air suspension is also available as option.



The highly water repellent seat covering is tough on dirt and water.



Air suspension (option)

### Automatic Air Conditioner

Fully automatic climate control is available through the eight vents, with an 8% stronger A/C unit, and a 24% improvement in airflow. (as compared with SH240-5)



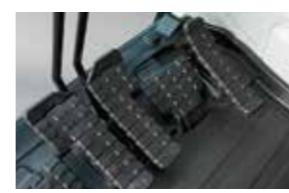
### Radio and Speaker with USB Port and MP3 Jack

In addition to the AM/FM radio and dual speaker system with improved sound quality, auxiliary audio port is provided standard for devices such as MP3 players.



### Auxiliary Operation Pedal

The auxiliary operation pedal is lighter to depress and the pedal angle is adjustable.



### Comfortable Equipment



### Lever Switches

One-touch idle, horn, radio mute, or one-touch wiper buttons are installed on the operation levers in consideration of improved operability while working.



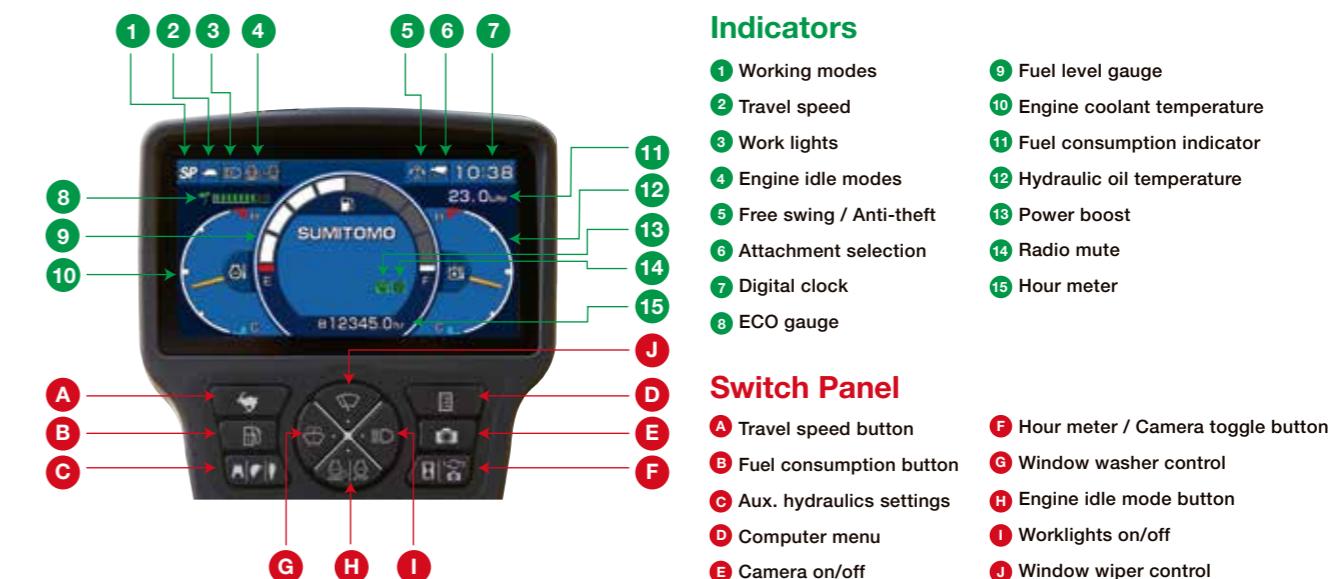


## Safety and Operator Comfort

To support the operator in the field, the DASH 6 incorporates a 7" wide full-colour LCD monitor with numerous functions and universally designed switch panel. The cabin with enhanced operator comfort ensures a safe working environment.

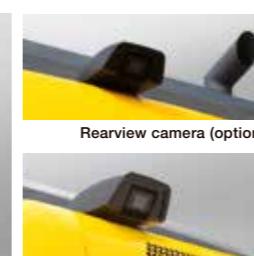
### Large High-Definition LCD Monitor

A new large high-definition full-colour LCD monitor has been introduced with better visibility and a switch panel which is easy to operate. Added functionality such as ECO gauge showing parameter of energy saving, display of operation status and warning messages, provides accurate information which improves work efficiency and safety.



### Rearview Camera (option)

With the rearview camera, the operator can view the image on the large LCD monitor. A side camera is available as option and up to two different images can be displayed on the monitor.



### Rearview Mirror

The rearview mirrors reduce blind spots during operation. ISO compliant mirrors also available as option.

# Specifications

## SH250-6 Technical Data

Electronic-controlled engine of SPACE 5+ and SH:S+ with New Hydraulic System Includes: three working modes (SP, H and A), one-touch/automatic idling system, automatic power-boost, speed assistance system, power-swing system.

### Engine

SH250-6	
Model	ISUZU GH-4HK1X
Type	Water-cooled, 4-cycle diesel, 4-cylinder in line, high pressure common rail system (electric control), Turbocharger with air-cooled intercooler.
Rated output	132.1 kW (179.6 PS) at 2,000 min <sup>-1</sup> (rpm)
Maximum torque	622 N·m at 1,800 min <sup>-1</sup> (rpm)
Piston displacement	5.193 ltr
Bore and stroke	115 mm x 125 mm
Starting system	24 V electric motor starting
Alternator	24 V, 50 A
Fuel tank	410 ltr
Air filter	Double element

### Hydraulic pumps

Two variable displacement axial piston pumps provide power for boom/arm/bucket, swing, and travel. One gear pump for pilot controls.

SH250-6	
Maximum oil flow	2 x 234 ltr/min
Pilot pump max. oil flow	20 ltr/min

### Hydraulic motors

For travel: Two variable displacement axial piston motors.  
For swing: One fixed displacement axial piston motor.

### Working circuit pressure

Boom/arm/bucket ..... 34.3 MPa (350 kgf/cm<sup>2</sup>)  
Boom/arm/bucket ..... 36.8 MPa (375 kgf/cm<sup>2</sup>) with auto power-up  
Swing circuit ..... 28.9 MPa (295 kgf/cm<sup>2</sup>)  
Travel circuit ..... 34.3 MPa (350 kgf/cm<sup>2</sup>)

### Control valve

With boom/arm holding valve  
One 4-spool valve for right track travel, bucket, boom and arm acceleration  
One 5-spool valve for left track travel, auxiliary, swing, boom acceleration and arm

### Oil filtration

Return filter ..... 6 microns  
Pilot filter ..... 8 microns  
Suction filter ..... 105 microns

### Hydraulic cylinders

Cylinder	Q'ty	Bore x Rod Diameter x Stroke
Boom	2	130 mm x 90 mm x 1,335 mm
Arm	1	145 mm x 105 mm x 1,660 mm
Bucket	1	130 mm x 90 mm x 1,070 mm

Double-acting, bolt-up-type cylinder tube-end; hardened steel bushings are installed in the cylinder tube and rods ends.

### Cabin & controls

The cabin is mounted on four fluid mountings. Features include safety glass front, rear and side windows, adjustable upholstered suspension seat with headrest and armrest, cigarette lighter, pop-up skylight window, and intermittent wiper with washer.

The front window slides upward for storage and the lower front window is removable. Control levers are located in four positions tilting control consoles. Built-in type full-colour monitor display. Membrane switch on monitor display.

### Swing

Planetary reduction is powered by an axial piston motor. The internal ring gear with has a grease cavity for pinion. The swing bearing is a single-row shear type ball bearing. Dual stage relief valves are used for smooth swing deceleration and stops. A mechanical disc swing brake is included.

SH250-6	
Swing speed	0–11.0 min <sup>-1</sup> (rpm)
Tail swing radius	2,950 mm
Swing torque	74.9 kN·m (7,638 kgf·m)

### Undercarriage

An X-style carbody is integrally welded for strength and durability. The grease cylinder track adjusters have shock absorbing springs. The undercarriage has lubricated rollers and idlers.

### Type of shoe: sealed link shoe

#### Upper rollers -

Heat treated, mounted on steel bushings with leaded bronze casting, sealed for lifetime lubrication.

#### Lower rollers -

Heat treated, mounted on steel bushings with leaded bronze casting, sealed for lifetime lubrication.

#### Track adjustment -

Idler axles adjusted with grease cylinder integral with each side frame; adjustment yoke mechanism fitted with heavy duty recoil spring.

### Number of rollers and shoes on each side

SH250-6	
Upper rollers	2
Lower rollers	9
Track shoes	51

### Travel system

Two-speed independent hydrostatic system with compact axial motors for increased performance. Hydraulic motor powered output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame.  
Travel speed can be selected by the switch panel on the monitor display. Hydraulically released disc parking brake is built into each motor.

SH250-6	
Travel speed	High
	Low
Drawbar pull	5.5 km/h
	3.5 km/h
	201 kN (20,496 kgf)

### Lubricant & coolant capacity

SH250-6	
Hydraulic system	250 ltr
Hydraulic oil tank	147 ltr
Fuel tank	410 ltr
Cooling system	30.2 ltr
Final drive case (per side)	5.0 ltr
Swing drive case	9.7 ltr
Engine crank case	23.1 ltr

### Auxiliary hydraulic system

SH250-6			
Auxiliary piping type (option)	For Breaker	For Double (breaker & crusher) acting	For D/A + Second option line
Arm type	STD	HD	HD
Bucket linkage type	HD	HD	HD
Auxiliary hydraulic pump flow	234 ltr/min	468 ltr/min	468+67 ltr/min

### Bucket

Model	SH250-6					
Bucket capacity (ISO/SAE/PCSA heaped)	0.80 M3	1.00 M3	1.10 M3	1.20 M3	1.30 M3	
Bucket capacity (CECE heaped)	0.70 M3	0.85 M3	0.90 M3	1.00 M3	1.10 M3	
Bucket type	STD	STD	STD	Level-pin	Reinforced level-pin	Reinforced level-pin
Number of teeth	4	5	5		5	5
Width unit: mm	With side cutter	1,086	1,276	1,360	1,470	1,560
	Without side cutter	985	1,175	1,260	1,370	1,460
Weight unit: kg	753	849	880	883	965	1,049
	2.50 m arm	○	○	○	○	●
Combination	3.00 m arm	○	○	●	○	○
	3.52 m arm	○	○	○	○	○

○ Suitable for materials with density up to 2,000 kg/m<sup>3</sup> or less

● Standard bucket (Suitable for materials with density up to 1,800 kg/m<sup>3</sup> or less)

○ Suitable for materials with density up to 1,600 kg/m<sup>3</sup> or less

### Weight & Ground Pressure

Model	SH250-6			
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure
	600 mm	3,190 mm	24,800 kg	49 kPa
Triple grouser shoe	700 mm	3,290 mm	25,100 kg	43 kPa
	800 mm	3,390 mm	25,400 kg	38 kPa

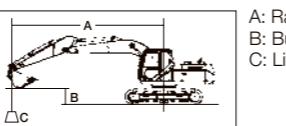
### Digging Force

Model	2.50 m	3.00 m	3.52 m
Arm length			
Bucket digging force <with auto power up>	ISO 6015	162 kN (174 kN)	162 kN (174 kN)
	SAE: PCSA	145 kN (155 kN)	145 kN (155 kN)
Arm digging force <with auto power up>	ISO 6015	141 kN (151 kN)	120 kN (129 kN)
	SAE: PCSA	136 kN (146 kN)	116 kN (125 kN)
			104 kN (112 kN)

## Lifting Capacity

Notes: 1. Ratings are based on ISO 10567

- 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- 3. The load point is a hook (not standard equipment) located on the back of the bucket.
- 4. \*Indicates load limited by hydraulic capacity.
- 5. 0 m = Ground.



- A: Radius of load
- B: Bucket hook height
- C: Lifting capacity

SH250-6		SHOE : 600 (mm) G BUCKET : SAE/PCSA 1.1 (m <sup>3</sup> )				ARM LENGTH : 3.00 (m) MAXIMUM REACH : 10.30 (m)				BOOM : 5.85 (m)				Load Radius Over Front		Load Radius Over Side		Unit: kg								
Bucket Hook Height		Radius of Load																Min. Radius								
		Max. Radius		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m						
		(kg)	(m)	(kg)	(m)																(kg)	(m)	(kg)	(m)		
8 m	2400*	7.83	2 400*	7.83				3 100*	3 100*											2 850*	6.77	2 850*	6.77			
7 m	2270*	8.57	2 270*	8.57			3 920*	3 920*	4 290*	4 290*										4 360*	6.64	4 360*	6.64			
6 m	2210*	9.12	2 210*	9.12	2 790*	2 790*	4 660*	4 030	5 100*	5 040*										5 240*	6.53	5 240*	6.53			
5 m	2190*	9.51	2 190*	9.51	4 040*	3 150	5 030*	3 960	5 500*	5 040										5 670*	6.09	5 670*	6.09			
4 m	2200*	9.77	2 200*	9.77	4 660*	3 090	5 440*	3 860	5 900*	4 890	6 530*	6 280*	7 370*	7 370*						4 880*	3.99	4 880*	3.99			
3 m	2260*	9.90	2 260*	9.90	4 600	3 030	5 650	3 760	6 540*	4 730	7 380*	6 120	8 690*	8 160*	10 930*	10 930*	13 340*	13 340*		9 610*	2.24	9 610*	2.24			
2 m	2330*	9.92	2 330*	9.92	4 520	2 960	5 530	3 650	6 880	4 570	8 200*	5 870	9 970*	7 850	12 820*	11 210	12 040*	12 040*		5 200*	2.50	5 200*	2.50			
1 m	2450*	9.83	2 450*	9.83	4 450	2 890	5 420	3 540	6 750	4 420	8 670	5 640	10 990*	7 490	13 910*	10 620	8 650*	8 650*		3 980*	2.33	3 980*	2.33			
0 m	2630*	9.64	2 530	9.64	4 400	2 840	5 330	3 460	6 620	4 290	8 510	5 460	11 530	7 230	14 640*	10 260	9 210*	9 210*	5 320*	5 320*	4 060*	1.58	4 060*	1.58		
-1 m	2870*	9.33	2 660	9.33	4 370	2 820	5 260	3 400	6 520	4 200	8 370	5 340	11 390	7 080	15 150*	10 140	10 750*	10 750*	8 070*	8 070*	6 520*	4 360*	0.45	4 360*	0.45	
-2 m	3210*	8.90	2 880	8.90			5 260	3 400	6 490	4 180	8 320	5 310	11 350	7 060	15 130*	10 160	12 900*	12 900*	9 640*	9 640*	9 680*	6 370*	0.23	6 370*	0.23	
-3 m	3730*	8.34	3 220	8.34			5 320	3 480	6 530	4 230	8 350	5 340	11 370	7 100	14 690*	10 240	15 810*	15 810*	11 920*	11 920*	10 320*	10 320*	8 420*	0.27	8 420*	0.27
-4 m	4550*	7.61	3 760	7.61				6 620	4 380	8 430	5 450	11 010*	7 220	13 780*	10 390	17 940*	17 310	15 850*	15 850*	12 520*	12 520*	11 130*	0.59	11 130*	0.59	
-5 m	6140*	6.68	4 670	6.68							7 760*	5 670	9 760*	7 430	12 210*	10 600	15 690*	15 690*	19 680*	19 680*			15 810*	1.26	15 810*	1.26
-6 m	5930*	5.44	5 930*	5.44								7 230*	7 230*	9 510*	9 510*	12 180*	12 180*					13 020*	2.75	13 020*	2.75	



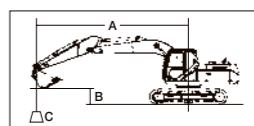
Unit: kg

SH250-6				SHOE : 600 (mm) G		ARM LENGTH : 2.50 (m)		BOOM : 5.85 (m)																						
				BUCKET : SAE/PCSA 1.3 (m <sup>3</sup> )		MAXIMUM REACH : 9.82 (m)		Radius of Load																						
Bucket Hook Height	Max. Radius		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		Min. Radius									
8 m	(kg)	(m)	(kg)	(m)					4 340*	4 340*												(kg)	(m)	(kg)	(m)					
	3 490*	7.20	3 490*	7.20																			3 880*	6.43	3 880*	6.43				
7 m	3 310*	8.02	3 310*	8.02					3 410*	3 410*	5 110*	5 040											4 370*	6.15	4 370*	6.15				
6 m	3 210*	8.61	3 210*	8.61					5 120*	3 890	5 550*	5 010											5 760*	6.03	5 760*	6.03				
5 m	3 180*	9.02	3 000	9.02	3 360*	3 020	5 400*	3 840	5 910*	4 900	6 190*	6 190*											5 570*	5.33	5 570*	5.33				
4 m	3 200*	9.30	2 790	9.30	4 560	2 990	5 630	3 750	6 270*	4 760	6 970*	6 200	8 010*	8 010*	8 120*	8 120*							5 310*	2.38	5 310*	2.38				
3 m	3 270*	9.44	2 660	9.44	4 500	2 940	5 540	3 650	6 820*	4 610	7 780*	5 960	9 310*	8 020	10 920*	10 920*	12 330*	12 330*					7 950*	2.96	7 950*	2.96				
2 m	3 370*	9.46	2 620	9.46	4 440	2 880	5 430	3 560	6 800	4 460	8 540*	5 730	10 490*	7 630	12 700*	10 850							7 120*	3.16	7 120*	3.16				
1 m	3 540*	9.36	2 630	9.36	4 390	2 830	5 340	3 470	6 650	4 320	8 580	5 520	11 350*	7 320	14 090*	10 350							6 530*	3.03	6 530*	3.03				
0 m	3 770*	9.16	2 720	9.16	4 350	2 800	5 260	3 400	6 540	4 220	8 410	5 370	11 430	7 100	14 830*	10 100	8 450*	8 450*					5 980*	2.50	5 980*	2.50				
-1 m	4 120*	8.84	2 880	8.84					5 220	3 360	6 460	4 150	8 300	5 270	11 320	7 020	15 120*	10 110	10 680*	10 680*	8 600*	8 600*	6 310*	1.17	6 310*	1.17				
-2 m	4 460*	8.38	3 150	8.38					5 270	3 410	6 470	4 170	8 300	5 280	11 330	7 040	14 880*	10 180	13 540*	13 540*	10 310*	10 310*	9 900*	9 900*	6 970*	0.74	6 970*	0.74		
-3 m	5 400*	7.79	3 580	7.79									6 560	4 260	8 360	5 360	11 290*	7 120	14 210*	10 290	17 390*	16 770	13 110*	13 110*	11 470*	11 470*	9 910*	0.79	9 910*	0.79
-4 m	6 290*	7.01	4 290	7.01									6 350*	4 300	8 370	5 530	10 440*	7 280	13 000*	10 480	16 640*	16 640*	17 210*	17 210*			14 020*	1.16	14 020*	1.16
-5 m	6 260*	5.99	5 580	5.99													8 700*	7 430	10 980*	10 520	13 910*	13 910*					18 480*	2.00	18 480*	2.00

SH250-6				SHOE : 600 (mm) G		ARM LENGTH : 3.52 (m)			BOOM : 5.85 (m)																				
				BUCKET : SAE/PCSA 1.0 (m <sup>3</sup> )		MAXIMUM REACH : 10.80 (m)			Radius of Load																				
Bucket Hook Height	Max. Radius		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		0 m		Min. Radius				
8 m	(kg)	(m)	(kg)	(m)					3110*	3110*	2560*	2560*												(kg)	(m)	(kg)	(m)		
8 m	1910*	8.48	1910*	8.48																					2570*	6.97	2570*	6.97	
7 m	1810*	9.17	1810*	9.17				2410*	2410*	3790*	3790*														3790*	7.14	3790*	7.14	
6 m	1760*	9.68	1760*	9.68				3450*	3240	4140*	4100														4710*	7.05	4710*	7.05	
5 m	1730*	10.04	1730*	10.04	1940*	1940*	4020*	3200	4540*	4020	4990*	4950												5020*	6.67	5020*	6.67		
4 m	1750*	10.28	1750*	10.28	2870*	2520	4520*	3140	5120*	3920	5420*	4980	5750*	5750*										5250*	5.57	5250*	5.57		
3 m	1790*	10.41	1790*	10.41	3360*	2480	4630	3060	5550*	3800	6140*	4800	6870*	6220	7980*	7980*	9720*	9720*			6230*	6230*		6920*	1.84	6920*	1.84		
2 m	1840*	10.43	1840*	10.43	3600*	2430	4550	2980	5570	3680	6740*	4630	7740*	5970	9300*	8010	11950*	11340	15000*	15000*				4970*	2.15	4970*	2.15		
1 m	1940*	10.34	1940*	10.34	3550*	2380	4460	2900	5440	3560	6800	4460	8530*	5720	10450*	7610	13680*	10850	10590*	10590*	3580*	3580*		3320*	1.94	3320*	1.94		
0 m	2070*	10.16	2070*	10.16	2980*	2350	4390	2830	5340	3460	6640	4310	8560	5500	11280*	7300	14330*	10370	9650*	9650*	5410*	5410*	3420*	3420*	3310*	0.90	3310*	0.90	
-1 m	2260*	9.87	2260*	9.87			4340	2790	5250	3390	6520	4200	8390	5350	11420	7090	14940*	10120	10510*	10510*	7240*	7240*	5920*	5920*	4760*	4760*	0	4760*	0
-2 m	2510*	9.46	2510*	9.46			4340	2790	5220	3350	6450	4140	8290	5270	11310	7010	15160*	10080	12140*	12140*	8820*	8820*	8200*	8200*	7130*	7130*	0	7130*	0
-3 m	2890*	8.94	2840	8.94					5250	3390	6460	4160	8290	5280	11320	7030	14920*	10130	14430*	14430*	10760*	10760*	9170*	9170*	8660*	8660*	0	8660*	0
-4 m	3450*	8.26	3250	8.26					5290	3480	6540	4240	8360	5350	11280*	7110	14290*	10250	17670*	17320	13470*	13470*	11020*	11020*		9050*	0.02	9050*	0.02
-5 m	4390*	7.40	3930	7.40							6560	4390	8350	5520	10440*	7270	13100*	10440	17080*	17060*	18280*	18280*	13420*	13420*		12090*	0.59	12090*	0.59
-6 m	5810*	6.30	5150	6.30									6640*	5620	8720*	7420	11050*	10500	14270*	14270*	19730*	19730*				18780*	1.64	18780*	1.64

Notes:

1. Ratings are based on ISO 10567
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. \*Indicates load limited by hydraulic capacity.
5. 0 m = Ground.



- A: Radius of load
- B: Bucket hook height
- C: Lifting capacity

SH250-6		SHOE : 700 (mm) G		ARM LENGTH : 3.00 (m)		BOOM : 5.85 (m)		Radius of Load																	
Bucket	Hook	Max. Radius		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		Min. Radius			
	Height																								
8 m		(kg)	(m)	(kg)	(m)					3 100*	3 100*												(kg)	(m)	
	2 400*	7.83	2 400*	7.83																				2 850*	6.77
7 m		2 270*	8.57	2 270*	8.57			3 920*	3 920*	4 290*	4 290*													4 360*	6.64
6 m		2 210*	9.12	2 210*	9.12	2 790*	2 790*	4 660*	4 080	5 100*	5 080													5 240*	6.53
5 m		2 190*	9.51	2 190*	9.51	4 040*	3 190	5 030*	4 010	5 500*	5 080													5 670*	6.09
4 m		2 200*	9.77	2 200*	9.77	4 720*	3 140	5 440*	3 910	5 900*	4 950	6 530*	6 330*	7 370*	7 370*									4 880*	3.99
3 m		2 260*	9.90	2 260*	9.90	4 660	3 070	5 710	3 800	6 540*	4 790	7 380*	6 190	8 690*	8 230	10 930*	10 930*	13 340*	13 340*					9 610*	2.24
2 m		2 330*	9.92	2 330*	9.92	4 580	3 000	5 600	3 690	6 950	4 630	8 200*	5 940	9 970*	7 930	12 820*	11 330	12 040*	12 040*					5 200*	2.50
1 m		2 450*	9.83	2 450*	9.83	4 510	2 930	5 490	3 590	6 840	4 480	8 760	5 710	10 990*	7 580	13 910*	10 740	8 650*	8 650*					3 980*	2.33
0 m		2 630*	9.64	2 570	9.64	4 460	2 880	5 400	3 510	6 700	4 350	8 620	5 530	11 640*	7 320	14 640*	10 380	9 210*	9 210*	5 320*	5 320*			4 060*	1.58
-1 m		2 870*	9.33	2 700	9.33	4 440	2 860	5 340	3 450	6 610	4 260	8 480	5 410	11 540	7 170	15 150*	10 260	10 750*	10 750*	8 070*	8 070*	6 520*	6 520*	4 360*	0.45
-2 m		3 210*	8.90	2 920	8.90			5 340	3 450	6 580	4 240	8 430	5 380	11 500	7 140	15 130*	10 280	12 900*	12 900*	9 640*	9 640*	9 680*	9 680*	6 370*	0.23
-3 m		3 730*	8.34	3 270	8.34			5 400	3 530	6 620	4 280	8 460	5 410	11 500	7 190	14 690*	10 360	15 810*	15 810*	11 920*	11 920*	10 320*	10 320*	8 420*	0.27
-4 m		4 550*	7.61	3 810	7.61					6 700	4 440	8 520	5 520	11 010*	7 310	13 780*	10 510	17 940*	17 460	15 850*	15 850*	12 520*	12 520*	11 130*	0.59
-5 m		6 140*	6.68	4 730	6.68							7 760*	5 740	9 760*	7 520	12 210*	10 710	15 690*	15 690*	19 680*	19 680*			15 810*	1.26
-6 m		5 930*	5.44	5 930*	5.44									7 230*	7 230*	9 510*	9 510*	12 180*	12 180*					13 020*	2.75



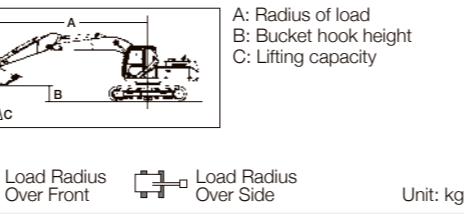
Unit

SH250-6				SHOE : 700 (mm) G		ARM LENGTH : 2.50 (m)		BOOM : 5.85 (m)																		
Bucket Hook Height		Radius of Load																								
		Max. Radius		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		Min. Radius				
8 m		(kg)	(m)	(kg)	(m)					4 340*	4 340*										(kg)	(m)				
	3 490*	7.20	3 490*	7.20																	3 880*	6.43	3 880*	6.43		
7 m	3 310*	8.02	3 310*	8.02			3 410*	3 410*	5 110*	5 090											4 370*	6.15	4 370*	6.15		
6 m	3 210*	8.61	3 210*	8.61			5 120*	3 940	5 550*	5 070											5 760*	6.03	5 760*	6.03		
5 m	3 180*	9.02	3 040	9.02	3 360*	3 060	5 400*	3 890	5 910*	4 960	6 190*	6 190*									5 570*	5.33	5 570*	5.33		
4 m	3 200*	9.30	2 830	9.30	4 620	3 030	5 690	3 800	6 270*	4 820	6 970*	6 270	8 010*	8 010*	8 120*	8 120*					5 310*	2.38	5 310*	2.38		
3 m	3 270*	9.44	2 700	9.44	4 570	2 980	5 610	3 700	6 820*	4 670	7 780*	6 030	9 310*	8 110	10 920*	10 920*	12 330*	12 330*			7 950*	2.96	7 950*	2.96		
2 m	3 370*	9.46	2 660	9.46	4 500	2 920	5 510	3 600	6 890	4 520	8 540*	5 800	10 490*	7 720	12 700*	10 970					7 120*	3.16	7 120*	3.16		
1 m	3 540*	9.36	2 670	9.36	4 450	2 870	5 410	3 520	6 740	4 380	8 690	5 590	11 350*	7 410	14 090*	10 470					6 530*	3.03	6 530*	3.03		
0 m	3 770*	9.16	2 760	9.16	4 410	2 840	5 340	3 450	6 620	4 280	8 520	5 440	11 580	7 190	14 830*	10 220	8 450*	8 450*			5 980*	2.50	5 980*	2.50		
-1 m	4 120*	8.84	2 930	8.84			5 300	3 410	6 550	4 210	8 410	5 340	11 470	7 110	15 120*	10 240	10 680*	10 680*	8 600*	8 600*	6 310*	1.17	6 310*	1.17		
-2 m	4 640*	8.38	3 200	8.38			5 350	3 460	6 560	4 220	8 410	5 350	11 480	7 130	14 880*	10 300	13 540*	13 540*	10 310*	10 310*	9 900*	0.74	6 970*	0.74		
-3 m	5 400*	7.79	3 630	7.79					6 650	4 320	8 470	5 420	11 340*	7 210	14 210*	10 410	17 390*	16 950	13 110*	13 110*	11 470*	11 470*	9 910*	0.79	9 910*	0.79
-4 m	6 290*	7.01	4 350	7.01					6 350*	4 360	8 450*	5 600	10 440*	7 360	13 000*	10 600*	16 640*	16 640*	17 210*	17 210*			14 020*	1.16	14 020*	1.16
-5 m	6 260*	5.99	5 650	5.99									8 700*	7 510	10 980*	10 620	13 910*	13 910*					18 480*	2.00	18 480*	2.00

SH250-6				SHOE : 700 (mm) G		ARM LENGTH : 3.52 (m)			BOOM : 5.85 (m)																			
				BUCKET : SAE/PCSA 1.0 (m <sup>3</sup> )		MAXIMUM REACH : 10.80 (m)																						
Bucket Hook Height	Radius of Load																											
	Max. Radius	10 m	9 m	8 m	7 m	6 m	5 m	4 m	3 m	2 m	1 m	0 m	Min. Radius															
8 m	(kg) 1910*	(m) 8.48	(kg) 1910*	(m) 8.48			3110*	3110*	2560*	2560*							(kg) 2570*	(m) 6.97	(kg) 2570*	(m) 6.97								
7 m	1810*	9.17	1810*	9.17		2410*	2410*	3790*	3790*									3790*	7.14	3790*	7.14							
6 m	1760*	9.68	1760*	9.68		3450*	3290	4140*	4140									4710*	7.05	4710*	7.05							
5 m	1730*	10.04	1730*	10.04	1940*	1940*	4020*	3240	4540*	4070	4990*	4990*						5020*	6.67	5020*	6.67							
4 m	1750*	10.28	1750*	10.28	2 870*	2 560	4 520*	3 180	5 120*	3 970	5 420*	5 040	5 750*	5 750*				5250*	5.57	5 250*	5.57							
3 m	1790*	10.41	1790*	10.41	3 360*	2 520	4 700	3 100	5 550*	3 850	6 140*	4 880	6 870*	6 280	7 960*	7 960*	9 720*	9 720*	6 230*	6 230*	6 920*	1.84	6 920*	1.84				
2 m	1840*	10.43	1840*	10.43	3 600*	2 470	4 610	3 020	5 650	3 730	6 740*	4 680	7 740*	6 040	9 300*	8 100	11 950*	11 440	15 000*	15 000*	4 970*	2.15	4 970*	2.15				
1 m	1940*	10.34	1940*	10.34	3 550*	2 420	4 530	2 940	5 520	3 610	6 890*	4 520	8 530*	5 790	10 450*	7 700	13 680*	10 970	10 590*	10 590*	3 580*	3 580*	3 320*	1.94	3 320*	1.94		
0 m	2070*	10.16	2 070*	10.16	2 980*	2 390	4 460	2 880	5 410	3 510	6 730	4 370	8 670	5 570	11 280*	7 390	14 330*	10 500	9 650*	9 650*	5 410*	5 410*	3 420*	3 420*	3 310*	0.90	3 310*	0.90
-1 m	2260*	9.87	2 260*	9.87		4 410	2 830	5 330	3 440	6 610	4 260	8 500	5 420	11 570*	7 180	14 940*	10 240	10 510*	10 510*	7 240*	7 240*	5 920*	5 920*	4 760*	4 760*	0	4 760*	
-2 m	2510*	9.46	2 510*	9.46		4 410	2 830	5 290	3 400	6 540	4 200	8 400	5 340	11 460	7 100	15 160*	10 200	12 140*	12 140*	8 820*	8 820*	8 200*	8 200*	7 130*	7 130*	0	7 130*	
-3 m	2890*	8.94	2 880	8.94				5 330	3 440	6 550	4 210	8 400	5 350	11 460	7 120	14 920*	10 250	14 430*	14 430*	10 760*	10 760*	9 170*	9 170*	8 660*	8 660*	0	8 660*	
-4 m	3450*	8.26	3 300	8.26				5 360	3 530	6 630	4 300	8 470	5 420	11 340*	7 200	14 290*	10 370	17 670*	17 670*	17 510	13 470*	11 020*	11 020*	9 050*	0.02	9 050*	0.02	
-5 m	4390*	7.40	3 980	7.40						6 630	4 450	8 440	5 590	10 440*	7 360	13 100*	10 560	17 080*	17 080*	18 280*	18 280*	13 420*	13 420*	12 090*	0.59	12 090*	0.59	
-6 m	5810*	6.30	5 210	6.30							6 640*	5 680	8 720*	7 500	11 050*	10 610	14 270*	14 270*	19 730*	19 730*			18 780*	1.64	18 780*	1.64		

## Lifting Capacity

Notes: 1. Ratings are based on ISO 10567  
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.  
3. The load point is a hook (not standard equipment) located on the back of the bucket.  
4. \*Indicates load limited by hydraulic capacity.  
5. 0 m = Ground.



# MEMO

SH250-6

SHOE : 800 (mm) G      ARM LENGTH : 3.00 (m)      BOOM : 5.85 (m)  
BUCKET : SAE/PCSA 1.1 (m<sup>3</sup>)      MAXIMUM REACH : 10.30 (m)

Bucket Hook Height	Radius of Load																									
	Max. Radius		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		Min. Radius					
	lug	hook	lug	hook	lug	hook	lug	hook	lug	hook	lug	hook	lug	hook	lug	hook	lug	hook	lug	hook						
8 m	(kg)	(m)	(kg)	(m)					3 100*	3 100*										(kg)	(m)	(kg)	(m)			
8 m	2 400*	7.83	2 400*	7.83					3 100*	3 100*										2 850*	6.77	2 850*	6.77			
7 m	2 270*	8.57	2 270*	8.57			3 920*	3 920*	4 290*	4 290*										4 360*	6.64	4 360*	6.64			
6 m	2 210*	9.12	2 210*	9.12	2 790*	2 790*	4 660*	4 120	5 100*	5 100*										5 240*	6.53	5 240*	6.53			
5 m	2 180*	9.51	2 190*	9.51	4 040*	3 230	5 030*	4 050	5 500*	5 130										5 670*	6.09	5 670*	6.09			
4 m	2 200*	9.77	2 200*	9.77	4 770*	3 180	5 440*	3 960	5 900*	5 010	6 530*	6 390	7 370*	7 370*						4 880*	3.99	4 880*	3.99			
3 m	2 260*	9.90	2 260*	9.90	4 720	3 110	5 770	3 850	6 540*	4 840	7 380*	6 260	8 690*	8 300*	10 930*	10 930*	13 340*	13 340*			9 610*	2.24	9 610*	2.24		
2 m	2 330*	9.92	2 330*	9.92	4 650	3 040	5 670	3 740	7 020*	4 680	8 200*	6 010	9 970*	8 020	12 820*	11 460	12 040*	12 040*			5 200*	2.50	5 200*	2.50		
1 m	2 450*	9.83	2 450*	9.83	4 580	2 980	5 560	3 640	6 930	4 530	8 850	5 780	10 990*	7 670	13 910*	10 870	8 650*	8 650*			3 980*	2.33	3 980*	2.33		
0 m	2 630*	9.64	2 610	9.64	4 520	2 930	5 470	3 560	6 790	4 410	8 730	5 600	11 640*	7 410	14 640*	10 500	9 210*	9 210*	5 320*	5 320*		4 060*	1.58	4 060*	1.58	
-1 m	2 870*	9.33	2 740	9.33	4 500	2 900	5 410	3 500	6 690	4 320	8 590	5 480	11 680	7 250	15 150*	10 380	10 750*	10 750*	8 070*	8 070*	6 520*	6 520*	4 360*	0.45	4 360*	0.45
-2 m	3 210*	8.90	2 970	8.90			5 410	3 500	6 660	4 290	8 540	5 440	11 640	7 230	15 130*	10 400	12 900*	12 900*	9 640*	9 640*	9 680*	9 680*	6 370*	0.23	6 370*	0.23
-3 m	3 730*	8.34	3 310	8.34			5 470*	3 580	6 700	4 340	8 570	5 480	11 600	7 280	14 690*	10 480	15 810*	15 810*	11 920*	11 920*	10 320*	10 320*	8 420*	0.27	8 420*	0.27
-4 m	4 550*	7.61	3 860	7.61					6 780*	4 490	8 620*	5 590	11 010*	7 390	13 780*	10 630	17 940*	17 600*	15 850*	15 850*	12 520*	12 520*	11 130*	0.58	11 130*	0.58
-5 m	6 140*	6.68	4 790	6.68							7 760*	5 800	9 760*	7 610	12 210*	10 810	15 690*	15 690*	19 680*	19 680*			15 810*	1.26	15 810*	1.26
-6 m	5 930*	5.44	5 930*	5.44									7 230*	7 230*	9 510*	9 510*	12 180*	12 180*					13 020*	2.75	13 020*	2.75

SH250-6

SHOE : 800 (mm) G  
BUCKET : SAE/PCSA 1.3 ( $m^3$ )

LENG  
MUM

GTH : 2.50 (m) REACH : 9.82 (m)

Bucket Hook Height	Radius of Load																									
	Max. Radius		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		Min. Radius					
8 m	(kg)	(m)	(kg)	(m)					4 340*	4 340*											(kg)	(m)	(kg)	(m)		
8 m	3 490*	7.20	3 490*	7.20					4 340*	4 340*											3 880*	6.43	3 880*	6.43		
7 m	3 310*	8.02	3 310*	8.02			3 410*	3 410*	5 110*	5 110*											4 370*	6.15	4 370*	6.15		
6 m	3 210*	8.61	3 210*	8.61			5 120*	3 990	5 550*	5 120*											5 760*	6.03	5 760*	6.03		
5 m	3 180*	9.02	3 090	9.02	3 360*	3 110	5 400*	3 930	5 910*	5 010	6 190*	6 190*									5 570*	5.33	5 570*	5.33		
4 m	3 200*	9.30	2 870	9.30	4 680	3 070	5 740	3 850	6 270*	4 880	6 970*	6 330	8 010*	8 010*	8 120*	8 120*					5 310*	2.38	5 310*	2.38		
3 m	3 270*	9.44	2 740	9.44	4 630	3 020	5 690	3 750	6 820*	4 720	7 780*	6 100	9 310*	8 200	10 920*	10 920*	12 330*	12 330*			7 950*	2.96	7 950*	2.96		
2 m	3 370*	9.46	2 690	9.46	4 570	2 960	5 580	3 650	6 980	4 570	8 540*	5 870	10 490*	7 810	12 700*	11 090					7 120*	3.16	7 120*	3.16		
1 m	3 540*	9.36	2 710	9.36	4 510	2 910	5 480	3 580	6 830	4 440	8 790	5 660	11 350*	7 490	14 090*	10 590					6 530*	3.03	6 530*	3.03		
0 m	3 770*	9.16	2 800	9.16	4 480	2 880	5 410	3 500	6 710	4 330	8 620	5 510	11 700	7 280	14 830*	10 340	8 450*	8 450*			5 980*	2.50	5 980*	2.50		
-1 m	4 120*	8.84	2 970	8.84			5 370	3 460	6 640	4 260	8 520	5 410	11 610	7 190	15 120*	10 360	10 680*	10 680*	8 600*	8 600*		6 310*	1.17	6 310*	1.17	
-2 m	4 640*	8.38	3 240	8.38			5 420	3 500	6 640	4 280	8 520	5 420	11 610	7 210	14 880*	10 420	13 540*	13 540*	10 310*	10 310*	9 900*	9 900*	6 970*	0.74	6 970*	0.74
-3 m	5 400*	7.79	3 680	7.79					6 730	4 380	8 580	5 490	11 340*	7 290	14 210*	10 530	17 390*	17 130	13 110*	13 110*	11 470*	11 470*	9 910*	0.79	9 910*	0.79
-4 m	6 290*	7.01	4 410	7.01					6 350*	4 420	8 450*	5 660	10 440*	7 450	13 000*	10 720	16 640*	16 640*	17 210*	17 210*		14 020*	1.16	14 020*	1.16	
-5 m	6 260*	5.99	5 720	5.99									8 700*	7 590	10 980*	10 720	13 910*	13 910*					18 480*	2.00	18 480*	2.00

SH250-6

SHOE : 800 (mm) G  
BUCKET : SAE/PCSA 1.0 ( $m^3$ )

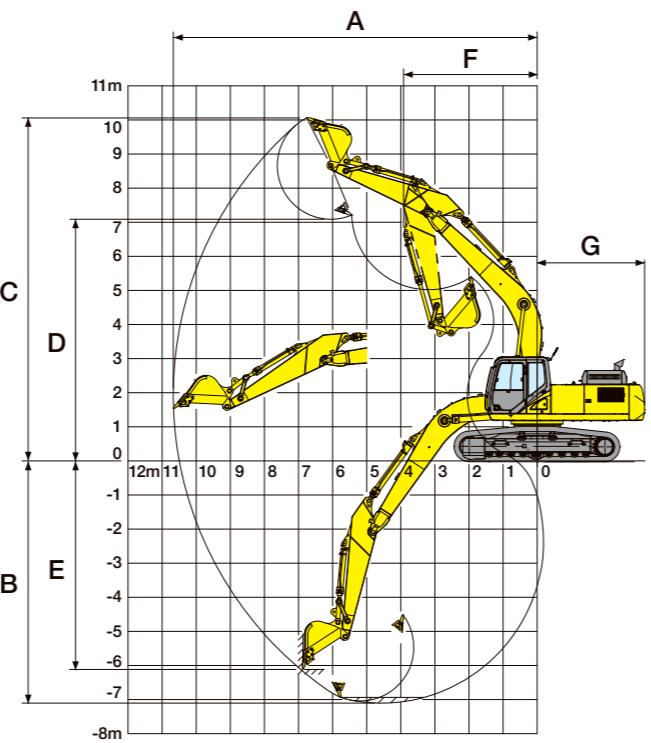
LENG  
MUM

GTH : 3.52 (m) REACH : 10.80 (m) BOOM : 5.85 (m)

Bucket Hook Height	Radius of Load															Min. Radius													
	Max. Radius		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		1 m		0 m						
	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar	Hook	Bar							
8 m	(kg)	(m)	(kg)	(m)			3 110*	3 110*	2 560*	2 560*											(kg)	(m)	(kg)	(m)					
8 m	1 910*	8.48	1 910*	8.48																	2 570*	6.97	2 570*	6.97					
7 m	1 810*	9.17	1 810*	9.17			2 410*	2 410*	3 790*	3 790*											3 790*	7.14	3 790*	7.14					
6 m	1 760*	9.68	1 760*	9.68			3 450*	3 330	4 140*	4 140*											4 710*	7.05	4 710*	7.05					
5 m	1 730*	10.04	1 730*	10.04	1 940*	1 940*	4 020*	3 280	4 540*	4 120	4 990*	4 990*									5 020*	6.67	5 020*	6.67					
4 m	1 750*	10.28	1 750*	10.28	2 870*	2 600	4 520*	3 220	5 120*	4 020	5 420*	5 080	5 750*	5 750*							5 250*	5.57	5 250*	5.57					
3 m	1 790*	10.41	1 790*	10.41	3 360*	2 550	4 760	3 140	5 550*	3 900	6 140*	4 920	6 870*	6 340*	7 960*	7 960*	9 720*	9 720*			6 920*	1.84	6 920*	1.84					
2 m	1 840*	10.43	1 840*	10.43	3 600*	2 500	4 670	3 060	5 720	3 780	6 740*	4 740	7 740*	6 110	9 300*	8 190	11 950*	11 540*	15 000*	15 000*		4 970*	2.15	4 970*	2.15				
1 m	1 940*	10.34	1 940*	10.34	3 550*	2 460	4 590	2 980	5 550	3 660	6 970	4 570	8 530*	5 850	10 450*	10 450	11 090	10 590*	10 590*	10 590*	3 320*	1.94	3 320*	1.94					
0 m	2 070*	10.16	2 070*	10.16	2 980*	2 420	4 520	2 920	5 480	3 560	6 820	4 430	8 780	5 640	11 280*	7 480	14 330*	10 620	9 650*	9 650*	5 410*	3 420*	3 420*	3 310*	0.90	3 310*	0.90		
-1 m	2 260*	9.87	2 260*	9.87			4 470	2 870	5 400	3 490	6 700	4 320	8 600	5 490	11 690	7 270	14 940*	10 360	10 510*	10 510*	7 240*	7 240*	5 920*	5 920*	4 760*	4 760*	0	4 760*	0
-2 m	2 510*	9.46	2 510*	9.46			4 470	2 870	5 360	3 450	6 630	4 250	8 510	5 410	11 600	7 190	15 160*	10 320	12 140*	12 140*	8 820*	8 820*	8 200*	8 200*	7 130*	7 130*	0	7 130*	0
-3 m	2 890*	8.94	2 890*	8.94					5 400	3 490	6 640	4 270	8 510	5 420	11 600	7 200	14 920*	10 370	14 430*	14 430	10 760*	10 760*	9 170*	9 170*	8 660*	8 660*	0	8 660*	0
-4 m	3 450*	8.26	3 350	8.26					5 430	3 570	6 710	4 360	8 570	5 490	11 340*	7 290	14 290*	10 490	17 670*	17 670	13 470*	13 470*	11 020*		9 050*	0.02	9 050*	0.02	
-5 m	4 390*	7.40	4 040	7.40						6 710	4 510	8 460*	5 650	10 440*	7 450	13 100*	10 680	17 080*	17 080*	18 280*	18 280*	13 420*	13 420*		12 090*	0.59	12 090*	0.59	
-6 m	5 810*	6.30	5 280	6.30							6 640*	5 740	8 720*	7 580	11 050*	10 710	14 270*	14 270*	19 730*	19 730*			18 780*	1.64	18 780*	1.64			

## Working Range

	SH250-6			
	Arm length	2.50 m	3.00 m	3.52 m
Arm length	Boom length	9.820 mm	10,280 mm	10,790 mm
A Max digging radius	B Max digging depth	6,400 mm	6,900 mm	7,420 mm
C Max digging height	D Max dumping height	9,560 mm	9,760 mm	10,070 mm
E Max vertical wall cut depth	F Min front swing radius	6,550 mm	6,760 mm	7,060 mm
F Min front swing radius	G Rear end swing radius	6,210 mm	6,740 mm	7,270 mm
G Rear end swing radius		3,980 mm	3,950 mm	3,950 mm



## Principle Specifications

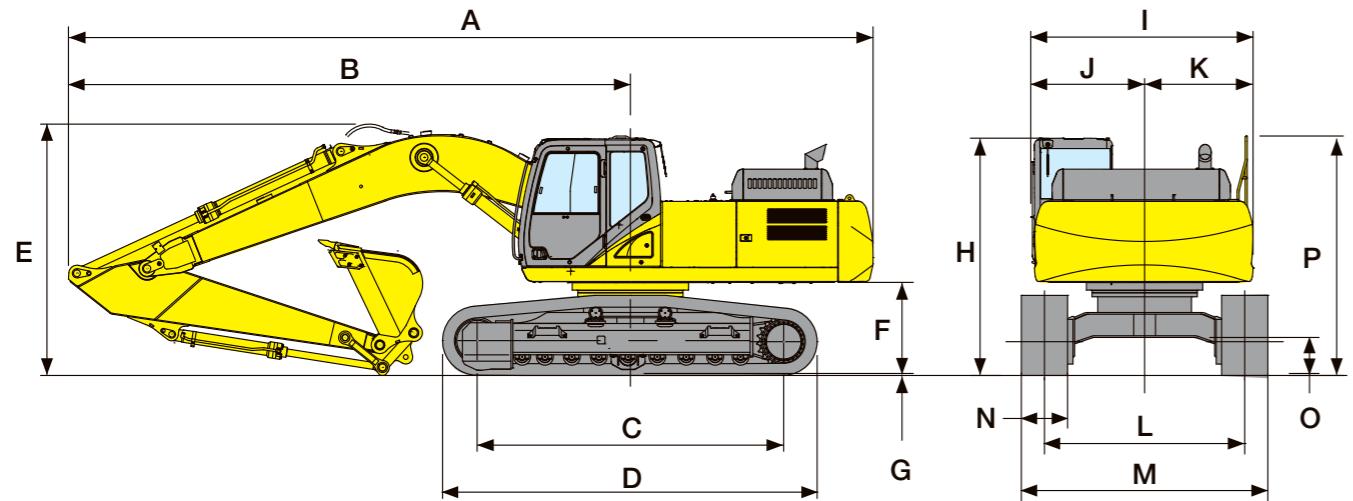
	SH250-6	
	STD Specifications	
Base	Boom length	5.85 m
Base	Arm length	3.00 m
Base	Bucket capacity (ISO heaped)	1.10 M3
Engine	Std. operating weight	24,800 kg
Engine	Make & model	ISUZU GH-4HK1X
Engine	Rated output	132.1 kW/2,000 min <sup>-1</sup>
System	Displacement	5.193 ltr
Hydraulic System	Main pump	2 variable displacement axial piston pumps with regulating system
Hydraulic System	Max pressure	34.3 MPa
Hydraulic System	/with auto power boost	36.8 MPa
Performance	Travel motor	Variable displacement axial piston motor
Performance	Parking brake type	Mechanical disc brake
Performance	Swing motor	Fixed displacement axial piston motor
Performance	Travel speed	5.5/3.5 km/h
Performance	Drawbar pull	201 kN
Performance	Gradeability	70% <35°>
Performance	Ground pressure	49 kPa
Performance	Swing speed	11.0 min <sup>-1</sup>
Performance	Bucket digging force	162 kN
Performance	/with power boost	174 kN
Performance	Arm digging force	120 kN (3.00 m arm)
Performance	/with power boost	129 kN (3.00 m arm)
Others	Fuel tank	410 ltr
Others	Hydraulic fluid tank	147 ltr

## Standard Equipment

[Hydraulic system]	[Cab/interior equipment]	[Safety equipment]	[Others]
•SIH:S+ hydraulic system	•Top guard OPG level1 (in cab structure)	•Rearview mirror (left/right)	•Auto/one-touch idling
•Operation mode (SP, H and A mode)	•Shock-less cab suspension by 4-point fluid mounts	•Emergency escape tool	•Auto idle shutdown system
•Automatic 2-speed travel	•Retracting seat belt	•Gate lock lever	•EMS
•Automatic power boost	•Built-in type full-colour monitor display	•Travel alarm (with on and off switch)	•Long-life hydraulic oil
•Arm/boom/bucket reactivation circuit	•Tilting console	•Anti-theft alarm system	•Two lights (main unit and left of boom)
•Automatic swing parking system	•Open air introducing pressurised full-automatic air conditioner	•Engine room firewall	•Fuel filter (with water separator)
•High-performance return filter	•Defroster	•Fan guard	•Fuel prefilter (with water separator)
	•Hot & cool box	•Engine emergency stop switch	•Double-element air cleaner
	•KAB seat	•Large tool box	•Grease-enclosed track link
	•Seat suspension	•A set of tools	•Clock
	•Armrest & headrest		•AM/FM radio (with muting function and AUX port& USB port)
	•Windscreen wiper (with intermittent operation function)		•Radio mute/Windscreen wiper one-touch control on joystick
	•Cup holder		•Clock
	•Magazine rack		•Magazine rack
	•Accessory case		•Accessory case
	•Floor mat		•Floor mat
	•Ashtray & cigarette lighter		•Ashtray & cigarette lighter
	•Cab light (Auto-OFF function)		•Cab light (Auto-OFF function)
	•Coat hook		

## Accessories (option)

■ Cab-top lights	■ Rain deflector	■ Head guard (OPG level 2)
Cab-top lights	Rain deflector	Head guard (OPG level 2)
■ Polycarbonate roof top window with sunshade	■ Front guard (OPG level 1 or 2)	■ Front mesh guard (full/lower)
Polycarbonate roof top window with sunshade	Front guard (OPG level 1 or 2)	Front mesh guard (full/lower)
■ Precleaner	■ Air suspension (KAB seat)	■ Refuel pump
Precleaner	Air suspension (KAB seat)	■ Hose burst check valve (HBCV) for boom/arm cylinders
		■ Straight travel pedal
		■ Side camera
		■ Rear view camera
		■ ISO compliant guardrail
		■ ISO compliant mirror
		■ ROPS Cabin



Model	SH250-6		
Arm length	2.50 m	3.00 m	3.52 m
A Overall length	9,980 mm	9,930 mm	9,910 mm
B Length from centre of machine (to arm top)	7,040 mm	6,990 mm	6,970 mm
C Centre to centre of wheels		3,840 mm	
D Overall track length		4,650 mm	
E Overall height (to top of boom)	3,310 mm	3,150 mm	3,310 mm
F Clearance height under upper structure		1,100 mm	
G Shoe lug height		26 mm	
H Overall height (to top of cab)		3,000 mm	
I Upper structure overall width		2,770 mm	
J Width from centre of machine (left side)		1,430 mm	
K Width from centre of machine (right side)		1,340 mm	
L Track gauge		2,590 mm	
M Overall width		3,190 mm	
N Std. shoe width		600 mm	
O Minimum ground clearance		440 mm	
P Overall height (to top of handrail)		3,020 mm	