

SUMITOMO

**SH210-5
SH210LC-5**

■ Engine Rated Power (Net) : 117.3 kW · 159.5 PS
■ Operating weight :
SH210-5 20,000~20,700 kg
SH210LC-5 20,400~21,200 kg
■ Bucket : ISO/SAE/PCSA Heaped : 0.50~1.1 m³

LEGEST



SUMITOMO (S.H.I.)
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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.



MADE IN JAPAN

The world knows that Japanese design and manufacturing is the best especially for industrial products. The hydraulic excavator is not the exception when a total integration concept is required in design work involving key components, manufacturing engineering and product quality assurance in the factory. All SUMITOMO hydraulic excavators are engineered and assembled SUMITOMO's its one and only factory located in Chiba City, Japan, and distributed to each country in the world. This distinctive feature is unique to SUMITOMO, giving the SUMITOMO machine users total comfort and reliance on product quality.

(Note: Some of the items manufactured and sourced in other countries may be assembled in Japan.)

Engine and Hydraulics 04 - 07

- SPACE 5
- SIHIS
- New working mode

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- Stronger boom and arm
- Durable bucket
- Ridged swing frame
- Improved undercarriage

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- High performance hydraulic return filter
- Fuel tank
- Engine oil drain coupler
- Ground level maintenance

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- Spacious cabin
- Comfortable operator's seat
- Message display from LCD monitor

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- Optimised view from cabin
- High -rigidity cabin structure

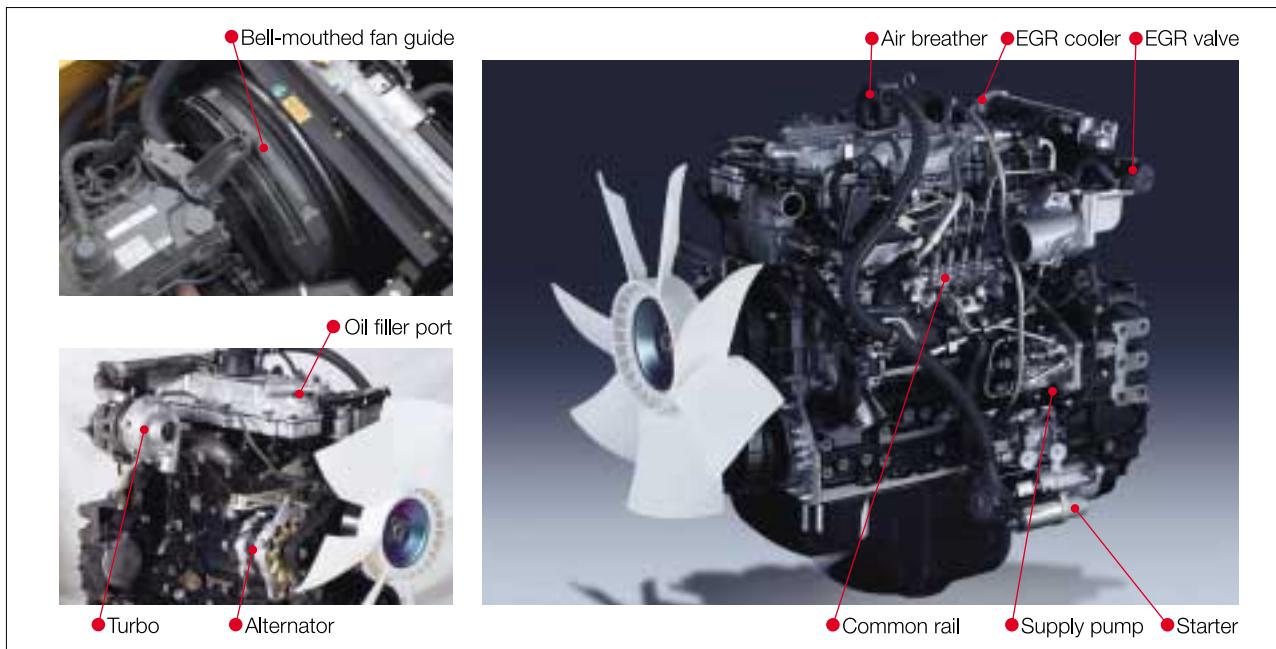
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Engine and Hydraulics



① Powerful ② Economy ③ Clean ④ Silent ⑤ Strong
 "SPACE5" is a new engine system consisting of five (5) special features.



Engine

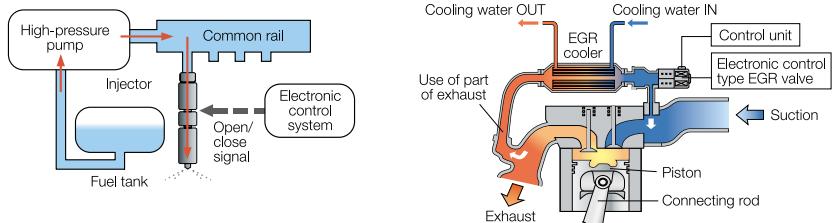
A newly developed ISUZU engine 4HK1X complies with Emission Regulations U.S. EPA Tier III and EU Stage IIIA. This produces bigger output and torque, and far better fuel consumption than the previous model.

Comparison of engines

	SH200-3	SH210-5	Merit
Name of engine	ISUZU-6BG1T	ISUZU-4HK1X	
Type	12-valve OHV	16-valve OHC	
Displacement cc	6494	5193	
Number of cylinders - Dia. x Stroke mm	6-105 x 125	4-115 x 125	
Rated output kW/min ⁻¹	103/1,950	117/1,800	Higher output (+14%)
Max. torque Nm/min ⁻¹	532/1,600	628/1,500	Higher torque (+18%)
Size (Length-Width-Height) mm	1204-768-961	1020-829-1012	
Cylinder block	Bearing CAP	Ladder frame	High rigidity/low noise
Fan belt	V-Belt	Poly V-Belt	Long life

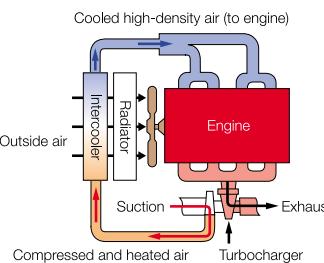
Common Rail Type High-Pressure Fuel Injection System

The system is equipped with a common rail type high-compression fuel injection system, which permits high-precision injection from multiple injection under ultra high-pressure of more than 1600 atm. Precise control of injection time and injection quality at that rate of 1/1000 second optimizes combustion, improves combustion efficiency, and reduces PM (particulate matter) substantially.



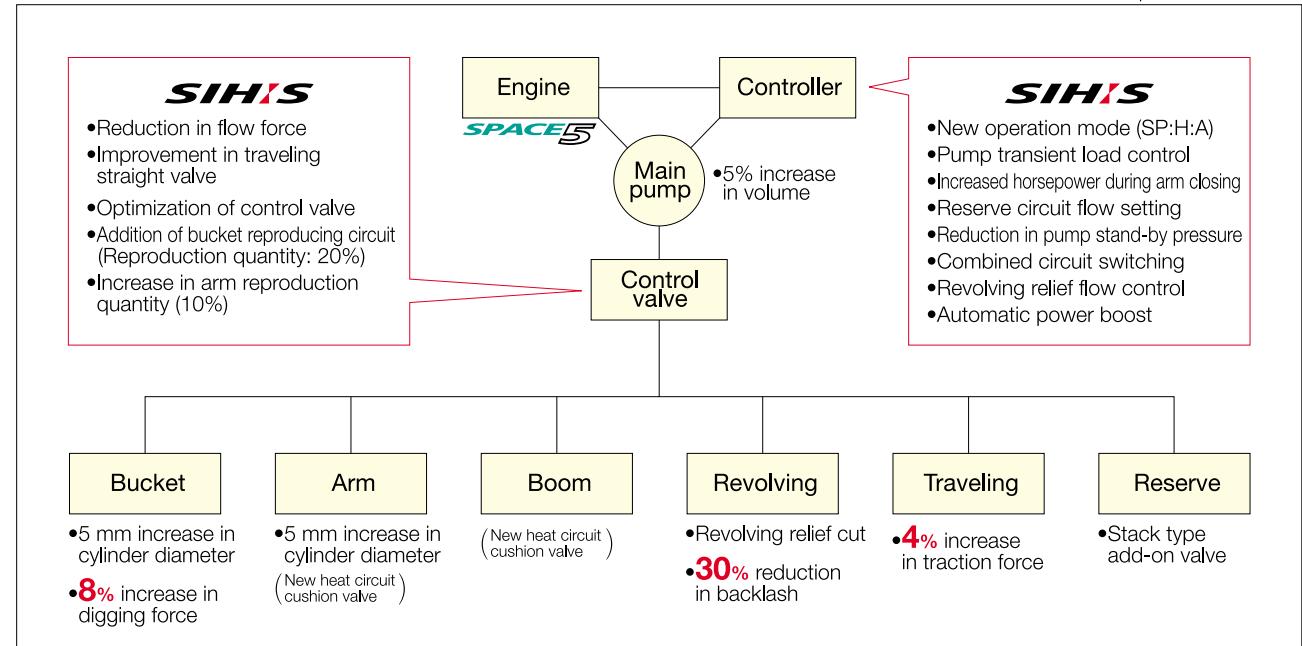
16 valve OHC Turbo Engine with Inter-Cooler

When the inter-cooler cools the intake air, which is compressed by a turbocharger and has reached a high temperature, the density of the air increases and the suction efficiency increases. Therefore, NOx and PM can be reduced substantially, permitting high output and improvement of fuel efficiency simultaneously.



- 8% increase in bucket digging force
- 24% increase in bucket closing speed
- 7% improvement in arm closing speed under heavy excavation
- 4% increase in traction force

* As compared with SH200-3



Real Digging Power

The true digging force can not be expressed by a maximum digging power figure listed in sales materials. With a much improved hydraulic system and by adopting a larger arm cylinder, the arm-in motion speed slowdown is minimized by seven percent (7%) in comparison with the previous model. The digging power when combined with the attachment speed in motion convey to the operators "real digging power".

SP (Speed Priority mode)

SUMITOMO unique design
 SP "Speed Priority" mode has been developed, which is not available in competitors models nor in our previous model. This will create biggest productivity in its class with more economical fuel efficiency even in comparison with the Heavy mode of our previous model. In addition, the throttle control is simple to use.

- SP mode: 5% increase in workload

* As compared with SH200-3 (H mode)

Automatic Power Boost

SUMITOMO unique design
 The digging power increases automatically in quick response to the working conditions without switching operations during heavy-duty digging work. It is SUMITOMO'S original design and continues for 8 seconds.

Quick and Smooth Control Response

A total review of the hydraulic circuit and miscellaneous hydraulic settings guarantee speedy and precise operation through a smooth control lever.

Multifunctioning Capability for Upper and Travel Operation

With the new hydraulic circuit, travel motion slowdown will not be experienced even during the combined operation of attachment and swing motion when traveling.



Engine and Hydraulics

The integration of the new engine system "SPACE 5" and new hydraulic system "SIH:S" has created 20% fuel efficiency improvement in comparison with our conventional model.



Hydraulic Oil Flow Control

In the case of sudden lever movement and high load activation, the newly developed hydraulic control system reduces the main pump oil flow intentionally and keeps the engine speed at a constant level. This enables a reduction in fuel consumption. In addition, this also reduces the level of exhaust smoke due to excessive fuel injection.

Reduction of Hydraulic Oil Flow at Swing

The hydraulic oil quantity required at the time of sudden swing motion is limited. The new hydraulic system can start the oil flow volume at the minimum level and then allow it to increase on demand. This optimum oil flow control significantly improves the fuel efficiency.

Reduction in Pump Stand-by Pressure

Reducing pump oil flow pressure during stand-by minimizes the load on the engine. This also improves fuel consumption.

Increased Pump Efficiency

The new modified hydraulic pump structure lowers the oil leak volume in the pump which means improved pump efficiency and improved engine fuel efficiency.

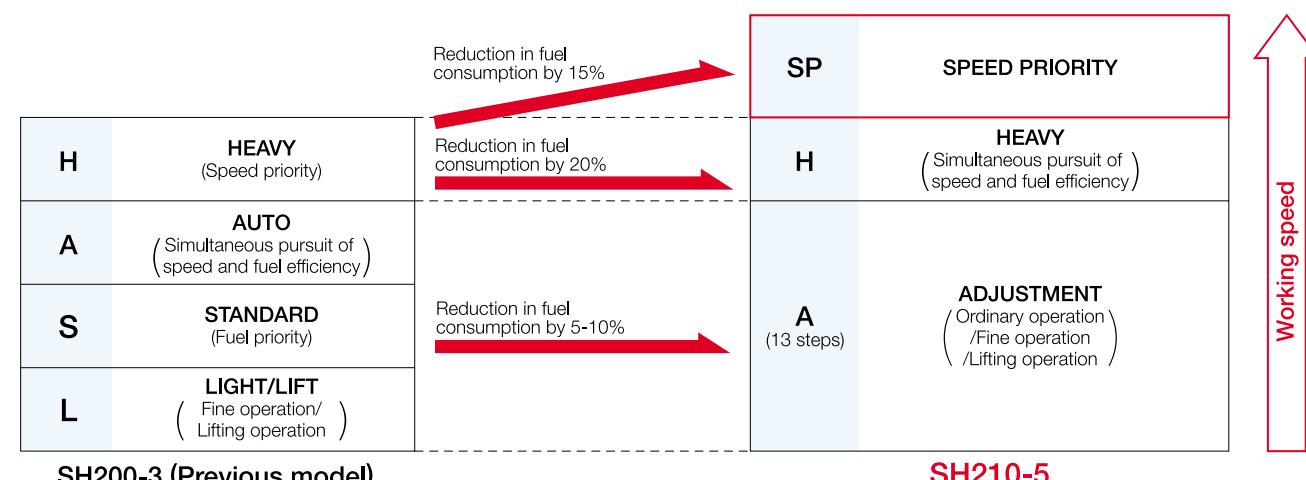
Mode Selection by Throttle

Mode selection by pressing the button in our previous model sometimes cause inconveniences for the operator. The throttle control system has been upgraded and the new system "A" mode which stands for "Adjustment Mode" now covers the 3 previous modes of "Auto, Standard and Light". In addition there is "H" (Heavy) mode and "SP" (Speed Priority) mode, and the hydrostatic pump oil flow will be regulated automatically in each of the 3 modes respectively.

The SP mode is added to the operation mode. Furthermore, the A (Adjustment) mode is added to the SP and H modes, respectively. In comparison with the H mode of Dash 3, the SP mode has reduced the fuel consumption by 15%, and the H mode of Dash 5 has reduced the fuel consumption by 20% as compared with Dash 3.



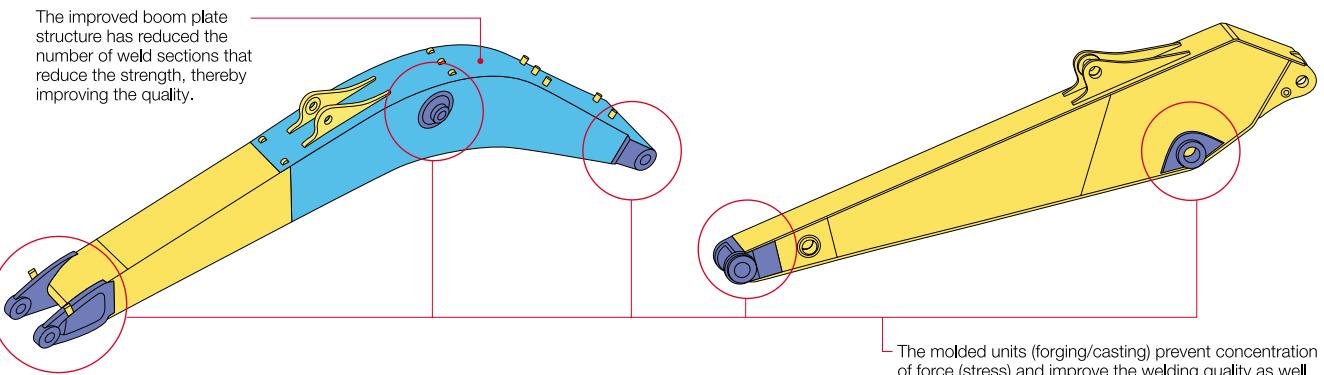
Throttle knob position	1	2	3	4~8	9~15
Engine speed	1,800	1,700	1,600	1,599~1,300	1,299~1,000
Operation mode	SP	H		A	
Automatic power boost	Automatic			Constant	



Durability

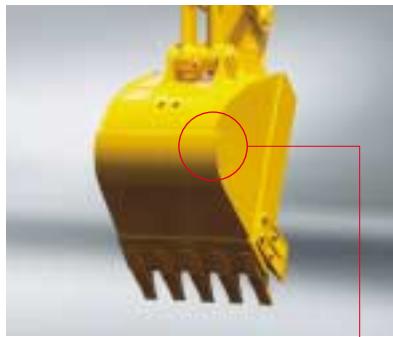
Boom & Arm

- 1. The boom structure is now 2 pieces instead of 3.
- 2. High strength castings are used for the boom base and arm end.
- 3. One size larger piping is used for the boom boss area.
- 4. Thicker steel plate is used for added strength.



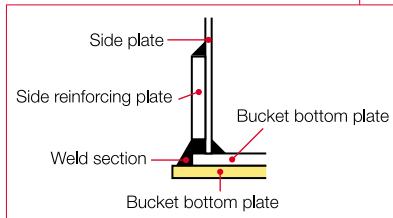
Bucket

A one piece wear plate covers the weldment area to increase the wear life of the bucket.



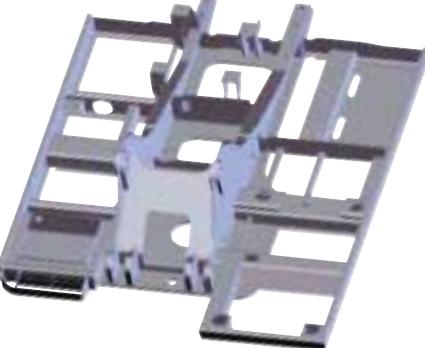
■ Cross section

Protection of weld bottom plate and flattening of bottom plate by changing the bottom plate weld structure

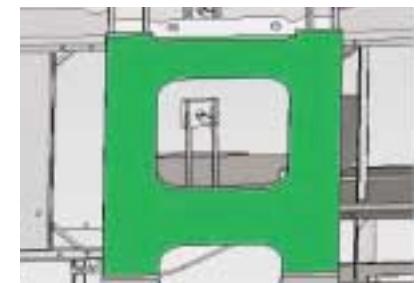


Swing Frame

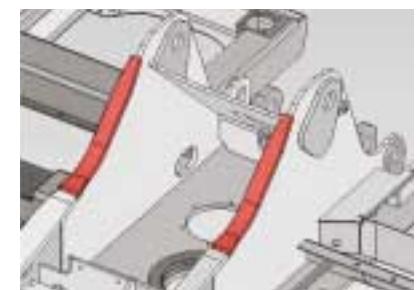
Reinforced plate on "A" frame is extended and the swing frame base is made in one-piece steel plate.



■ Revolving frame

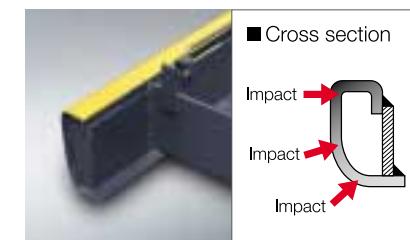


■ A frame



Ridged Upper Side Section Frame

5% increase in rigidity
A closed -section "D" shape structure with thicker plate reduces stress and is high impact resistant.



Undercarriage

① Link shoe

M-type seal increased pin hardness

② Center joint

Prevention of bolt loosening

③ Recoil Spring

Use of high hardness material

④ Idler

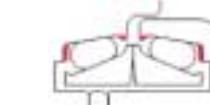
Reinforced boss

⑤ Travel motor

Improved seal

⑥ Carrier roller

Tread machining addition of jaw

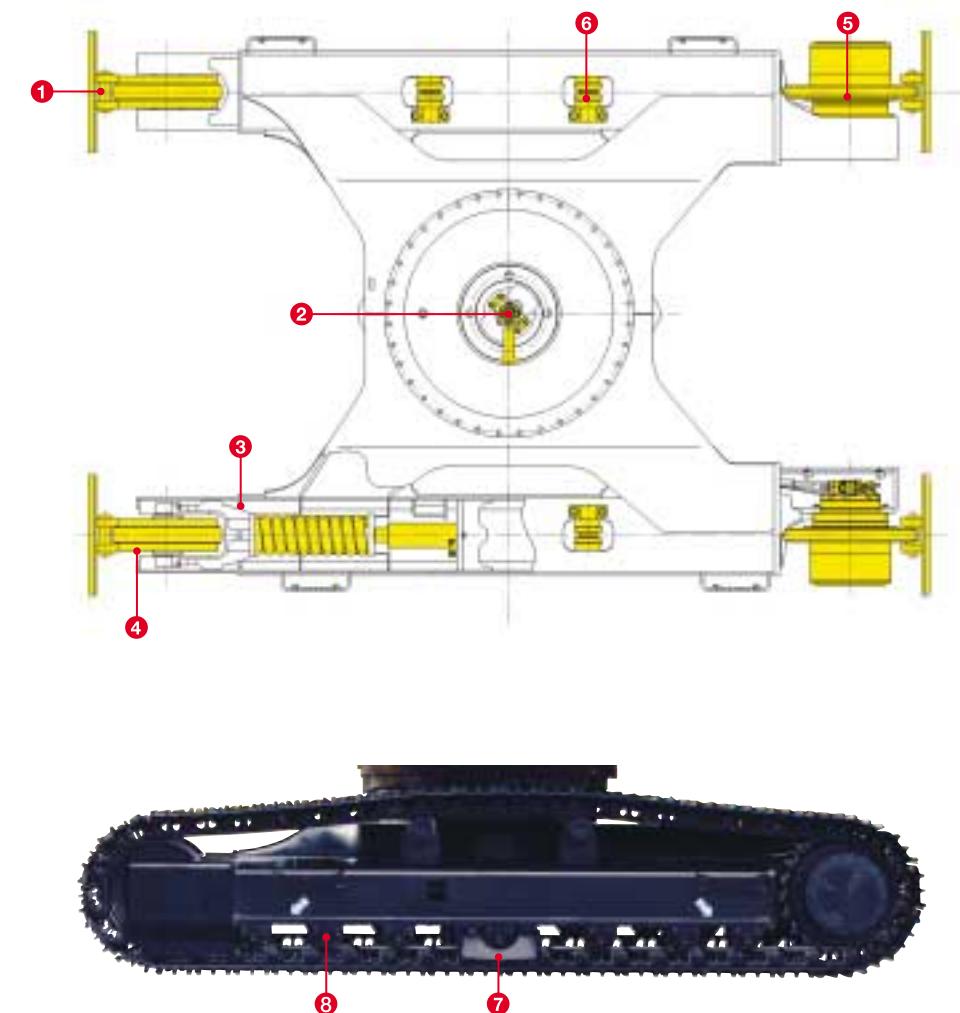


⑦ Center guard

Change of structure and bigger size

⑧ Track roller

Tread machining addition of jaw prevention of bolt loosening



Maintenance

High-Performance Return Filter

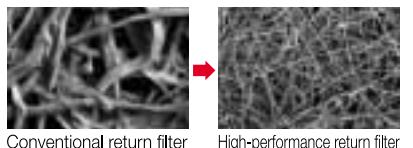
The hydraulic oil change interval is 5,000hours, and the return filter change interval is 2,000hours. One high performance return filter keeps the same level of filtering effect as a nephron.

- Hydraulic oil change : **5,000 hours**
- Life of filter : **2,000 hours**

* The oil and filter change interval depends on the working conditions.



The High-Performance Return Filter is made more precisely to condense the Nephron filter function.



Fuel Tank

Stainless steel is used for the strainer that prevents dust entering during refueling. Furthermore, a maintenance hole is provided to permit easy periodical maintenance.



Engine Oil Drain Coupler

The engine oil pan is provided with a drain coupler. This makes easier to do drain work and preventing oil from spattering with an attached drain hose.



EMS (Easy Maintenance System) as Standard

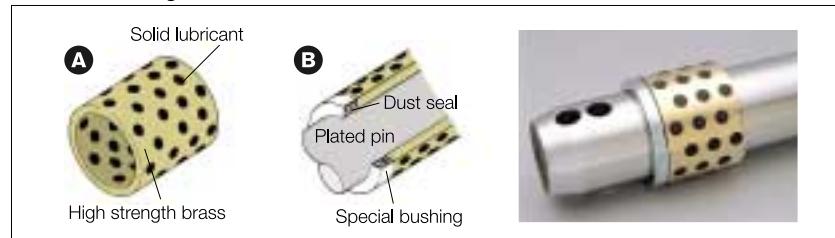
SUMITOMO's new improved EMS keeps the pins and bushes fully lubricated at all times and prevents rattling. This system significantly extends the service life of the pins and bushes.

The interval of greasing 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 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.

■Steel EMS bushing



Steel EMS is installed around the bucket



Precautionary use of EMS

- 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.

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.

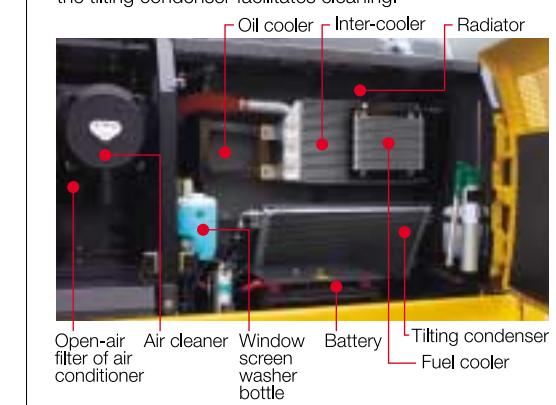


•Remote fuel and oil filters

A fuel prefilter is provided as standard equipment to reduce trouble due to fuel clogging. In addition, the fuel and oil filters are installed at ground-accessible location to facilitate replacement.

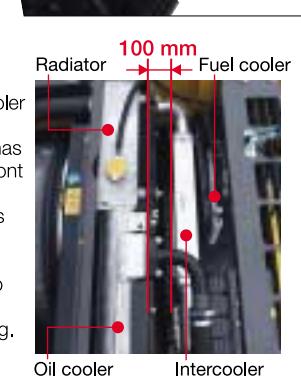
•Parallel installation of radiator and oil cooler

A space provided at the front of the intercooler and the tilting condenser facilitates cleaning.



•Ease of cleaning around radiator

The radiator and oil cooler are arranged in parallel. Furthermore, a space has been provided at the front of the intercooler and a tilting air condenser has been adopted to substantially facilitate cleaning. Dust build up can be removed easily and prevent overheating.



Operator Comfort

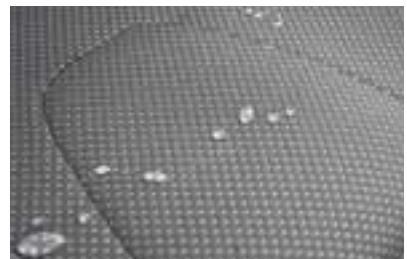
SUMITOMO's Redesigned Cabin and Seat for Optimum Operator Comfort

The seat reclining system allows the operator to lay the seat flat and to rest on site without removing the headrest.



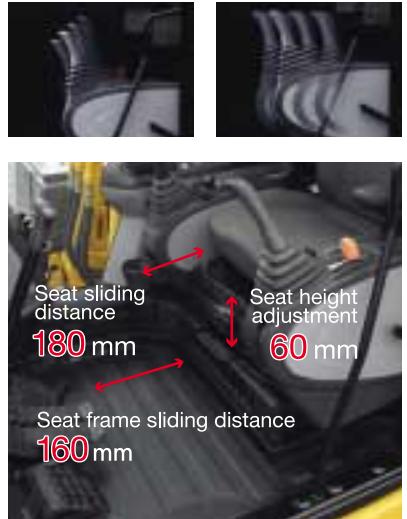
New Water-repelling Operator's Seat SUMITOMO unique design

A rainwater and dust-resistant, water-repelling operator's seat has been adopted.



Operating Positions of Sliding Seat and Tilting Console

In addition to the tilting console that is adjustable in four steps vertically, the increased sliding distance ensures optimum working conditions.



The Suspension Seat Eliminates Vibration



Air suspension (Option)

Simple to Read LCD Monitor and Switch Panel

In addition to the monitor that is easy to read during daytime as well as nighttime by changing the backlight to white, a simple and convenient universally designed switch panel is provided.



Warning message
1. OVER HEAT
2. ALTERNATOR
3. LOW FUEL
4. LOW OIL PRESSURE
5. LOW COOLANT
6. ELEC.PROBLEM
7. OVER LOAD (option)
8. AIR FILTER
9. CHECK ENGINE
10. BOOST TEMP. HIGH
11. CHECK BREAKER FILTER (option)

Active condition message
1. ENG.PRE HEAT
2. AUTO WARM UP
3. ENG.IDLING
4. POWER UP
5. ENGINE STOP

Language menu
Japanese
English
Thai
Chinese
German
French
Italian
Spanish
Portuguese
Dutch
Danish
Norwegian
Swedish
Finnish
Turkish
Arabic
Malay
Indonesian
(Pictograph)

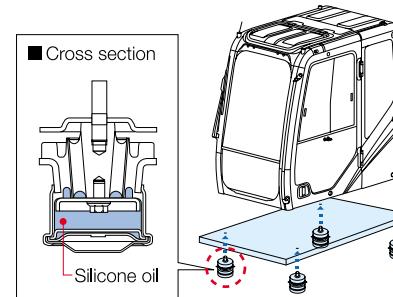
Flow Setting in 10 Patterns and Switching of Combined Circuit

The switch panel in the cab permits setting the flow rate for work with a maximum of ten different special attachments in advance. A circuit change for the breaker and crusher is also possible in the cab.



Fluid Filled Cab Mounts

Four fluid cab mounts reduce vibration and impact transmitted to the cabin, and improve the operators' sitting quality and reduce operator fatigue.



Automatic Air Conditioner with Round Outlets for Increased Comfort

The air outlets of the air conditioner are provided with round grills with wide adjusting angles. The efficiency of the air conditioner has been increased by pressurizing the cab to make it airtight, providing a comfortable space.



ISO-compliant Pressurized Cab to Prevent Dust Entry

The sealed and pressurized (sealing by pressure) cab prevents entry of dust from outside.

Convenient One-touch SUMITOMO unique design Muting of AM/FM Radio

An AM/FM radio is provided as standard equipment. The mute switch on the left lever permits one-touch muting of the radio.



Low Operation Noise

* The ambient noise level is reduced by 3 dB, while the noise level inside the cab is reduced by approx. 4 dB. Reduction in the ambient noise by 3 dB achieves an effect equivalent to reduction in the sound sources by half.



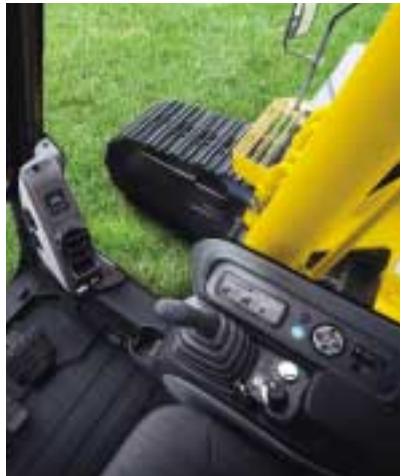
Adoption of large muffler

Reduced fan speed and the bell-mouthed fan guide ensures a noise level far below the standard level.

Safety

The wide view increases  the safety of work

In addition to the wide front view, the down-right view is also made larger to enhance the safety of work.



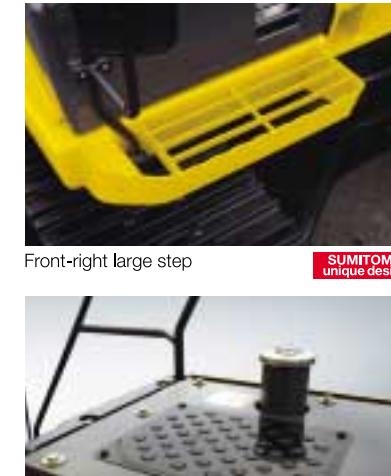
New Gate Lock Lever and Console Tilt-up Function

The console tilt-up function permits easy entry and exit.



Easy Access to the Upper Structure

A large step and handrail, as well as a non-slip place, minimize the effort when climbing on and off the upper structure.



Safe and Easy Entry into and Exit from the Cab

A large handrail for easy opening/closing of the door and a non-slip plate are installed to permit the operator to get in and out of the cab easily.



Anti-theft Alarm System

SUMITOMO's unique anti-theft system can be activated by your SUMITOMO distributors at the time of purchase.



Anti-theft alarm system

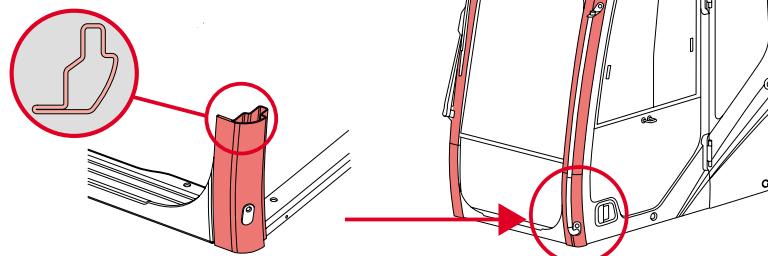
Safety Equipment in case of an Emergency



Emergency stop switch

About 3 times greater rigidity

* As compared with SH200-3



Customer and Product Support

SUMITOMO's total commitment to product and customer support has enabled it grow into a world renowned manufacturer of hydraulic excavators. Supported by a global sales and service network of over four hundred distributors representing hydraulic excavators manufactured by SUMITOMO, the company supply 70% of total production from Japan to all five continents.

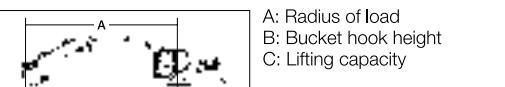
A spread of over one thousand outlets offering excellent parts and service support has global coverage ensuring SUMITOMO hydraulic excavator users have at their disposal Regional Spare Parts Centers, technical repair shops and service vehicles carrying all the necessary equipment to service and repair any hydraulic excavator manufactured by SUMITOMO.

SUMITOMO aims to produce the right products to meet all work applications and at the same time provide the highest level of more training and education to ensure complete product support quality throughout the service network in the world.



Lifting Capacity

Notes: 1. Ratings are based on SAE J/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. 0m = Ground.



Load Radius Over Front Load Radius Over Side Unit : kg

SH210-5 SHOE : 600 (mm)G BUCKET : SAE/PCSA 0.8 (m³) ARM LENGTH = 2.94 (m) MAXIMUM REACH = 8.56 (m) BOOM : 5.70 (m)

Bucket Hook Height	Radius of Load																			
	Max. Radius		8 m	7 m	6 m	5 m	4 m	3 m	2 m	Min. Radius										
7 m	2 744*	6.79	2 744*	6.79						3 964*	6.25	3 928	6.25							
6 m	2 675*	7.46	2 675*	7.46		3 889*	3 125				4 060*	6.15	3 988	6.15						
5 m	2 674*	7.94	2 376	7.94		4 276*	3 056	4 362*	4 051			4 397*	5.73	4 394	5.73					
4 m	2 730*	8.27	2 131	8.27	3 642	2 284	4 561*	2 950	4 843*	3 876	5 293*	5 277		5 435*	4.76	5 435*	4.76			
3 m	2 842*	8.48	1 970	8.48	3 560	2 209	4 486	2 823	5 433*	3 673	6 243*	4 943	7 660*	7 054	10 612*	10 612*				
2 m	3 017*	8.56	1 873	8.56	3 472	2 127	4 342	2 691	5 591	3 468	7 221*	4 612	9 297*	6 473	10 692*	10 068				
1 m	3 054	8.52	1 833	8.52	3 389	2 050	4 210	2 571	5 388	3 286	7 229	4 335	10 554	6 042	8 236*	8 236*				
0 m	3 100	8.36	1 848	8.36	3 324	1 990	4 105	2 474	5 232	3 146	7 003	4 139	10 245	5 788	9 054*	9 054*	4 906*			
-1 m	3 241	8.08	1 927	8.08	3 287	1 956	4 035	2 411	5 130	3 055	6 870	4 023	10 098	5 667	10 929*	9 174	7 346*			
-2 m	3 513	7.65	2 092	7.65			4 009	2 386	5 084	3 014	6 817	3 977	10 064	5 640	13 437*	9 213	9 760*			
-3 m	3 996	7.05	2 389	7.05			4 039	2 414	5 098	3 026	6 836	3 994	10 119	5 685	14 511*	9 327	12 404*			
-4 m	4 894	6.24	2 939	6.24				5 187	3 106	6 932	4 077	10 186*	5 802	13 129*	9 526	15 479*	14 469*	1.69		
-5 m	6 582*	5.10	4 132	5.10						6 761*	4 257	8 605*	6 014	10 983*	9 841		14 290*	2.09	14 290*	2.09

SH210-5 SHOE : 600 (mm)G BUCKET : SAE/PCSA 0.9 (m³) ARM LENGTH = 2.40 (m) MAXIMUM REACH = 8.14 (m) BOOM : 5.70 (m)

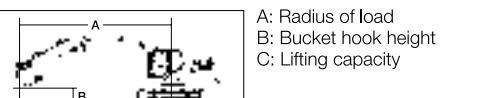
Bucket Hook Height	Radius of Load																						
	Max. Radius		8 m	7 m	6 m	5 m	4 m	3 m	2 m	Min. Radius													
7 m	4 016*	6.25	3 800	6.25			4 466*	4 117			4 427*	5.78	4 421	5.78									
6 m	3 925*	6.97	3 057	6.97			4 497*	4 078			4 503*	5.67	4 503*	5.67									
5 m	3 939*	7.49	2 609	7.49		4 636*	2 982	4 781*	3 960		5 005*	5.16	5 005*	5.16									
4 m	3 718	7.84	2 321	7.84		4 557	2 887	5 238*	3 789	5 831*	5 141	6 847*	6 847*		7 342*	3.67	7 342*	3.67					
3 m	3 473	8.05	2 138	8.05	3 514	2 166	4 427	2 769	5 731	3 593	6 750*	4 810	8 472*	6 798	12 366*	10 597		11 260*	2.90	11 160	2.90		
2 m	3 341	8.14	2 031	8.14	3 440	2 097	4 295	2 647	5 515	3 399	7 414	4 494	9 992*	6 248		7 488*	3.13	7 488*	3.13				
1 m	3 306	8.10	1 991	8.10	3 372	2 033	4 177	2 540	5 331	3 234	7 128	4 246	10 365	5 885		6 110*	3.02	6 110*	3.02				
0 m	3 369	7.93	2 017	7.93			4 089	2 459	5 197	3 114	6 941	4 083	10 142	5 702	8 256*	8 256*	5 726*	2.53					
-1 m	3 550	7.63	2 121	7.63			4 040	2 414	5 120	3 045	6 845	4 001	10 065	5 638	11 208*	9 187	7 576*	7 576*	8 082*	1.79			
-2 m	3 899	7.17	2 333	7.17			4 041	2 415	5 103	3 029	6 829	3 986	10 084	5 654	14 733*	9 274	10 815*	10 815*	10 188*	1.69	9 639*	1.19	
-3 m	4 537	6.53	2 723	6.53						5 152	3 073	6 887	4 036	10 187	5 739	13 709*	9 432	14 321*	14 321*	13 468*	1.69	12 646*	1.26
-4 m	5 806	5.64	3 489	5.64								7 033	4 164	9 530*	5 902	12 065*	9 683	16 013*	16 013*	17 516*	1.74		
-5 m	6 815*	4.35	5 427	4.35								7 471*	6 190				9 292*	3.08	9 292*	3.08			

SH210-5 SHOE : 600 (mm)G BUCKET : SAE/PCSA 1.0 (m³) ARM LENGTH = 1.91 (m) MAXIMUM REACH = 7.66 (m) BOOM : 5.70 (m)

Bucket Hook Height	Radius of Load																			
	Max. Radius		8 m	7 m	6 m	5 m	4 m	3 m	2 m	Min. Radius										
7 m	4 997*	5.61	4 548	5.61						4 959*	5.30	4 959*	5.30							
6 m	4 910*	6.40	3 531	6.40			4 989*	3 997			5 081*	5.17	5 081*	5.17						
5 m	4 645	6.96	2 960	6.96			5 229*	3 896	5 624*	5 328		5 913*	4.51	5 913*	4.51					
4 m	4 150	7.34	2 609	7.34		4 517	2 854	5 656*	3 736	6 386*	5 039	7 698*	7 195	10 571*	10 571*		12 406*	2.70	12 406*	2.70
3 m	3 854	7.57	2 391	7.57		4 404	2 750	5 681	3 551	7 271*	4 717	9 319*	6 575		10 419*	3.28	8 689	3.28		
2 m	3 701	7.66	2 270	7.66		4 287	2 643	5 482	3 373	7 328	4 425	10 589	6 076		8 141*	3.48	7 339	3.48		
1 m	3 667	7.62	2 229	7.62		4 187	2 552	5 321	3 228	7 082	4 211	10 258	5 803							

Lifting Capacity

Notes: 1. Ratings are based on SAE J/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. 0m = Ground.



Load Radius Over Front Load Radius Over Side Unit : kg

SH210-5 SHOE : 800 (mm)G BUCKET : SAE/PCSA 0.8 (m³) ARM LENGTH = 2.94 (m) MAXIMUM REACH = 8.56 (m) BOOM : 5.70 (m)

Bucket Hook Height	Radius of Load													
	Max. Radius		8 m	7 m	6 m	5 m	4 m	3 m	2 m	Min. Radius				
7 m	2 744*	6.79	2 744*	6.79						3 964*	6.25	3 964*	6.25	
6 m	2 675*	7.46	2 675*	7.46		3 889*	3 231				4 060*	6.15	4 060*	6.15
5 m	2 674*	7.94	2 468	7.94		4 276*	3 163	4 362*	4 180		4 397*	5.73	4 397*	5.73
4 m	2 730*	8.27	2 218	8.27	3 745*	2 375	4 561*	3 057	4 843*	4 005	5 293*	5 293*	5 435*	4.76
3 m	2 842*	8.48	2 055	8.48	3 700	2 300	4 652	2 929	5 433*	3 802	6 243*	5 105	7 660*	7 275
2 m	3 017*	8.56	1 958	8.56	3 611	2 218	4 508	2 798	5 795	3 597	7 221*	4 775	9 297*	6 694
1 m	3 183	8.52	1 918	8.52	3 529	2 141	4 376	2 677	5 593	3 415	7 495	4 498	10 569*	6 263
0 m	3 232	8.36	1 935	8.36	3 464	2 081	4 271	2 581	5 436	3 275	7 269	4 302	10 625	6 008
-1 m	3 379	8.08	2 018	8.08	3 426	2 047	4 201	2 517	5 334	3 183	7 136	4 186	10 479	5 888
-2 m	3 661	7.65	2 188	7.65		4 174	2 493	5 289	3 143	7 083	4 140	10 445	5 860	13 437*
-3 m	4 161	7.05	2 495	7.05		4 204	2 520	5 302	3 155	7 102	4 156	10 500	5 905	14 511*
-4 m	5 087	6.24	3 062	6.24			5 391	3 234	7 197	4 239	10 186*	6 022	13 129*	9 868
-5 m	6 582*	5.10	4 291	5.10					6 761*	4 420	8 605*	6 234	10 983*	10 183

SH210-5 SHOE : 800 (mm)G BUCKET : SAE/PCSA 0.9 (m³) ARM LENGTH = 2.40 (m) MAXIMUM REACH = 8.14 (m) BOOM : 5.70 (m)

Bucket Hook Height	Radius of Load															
	Max. Radius		8 m	7 m	6 m	5 m	4 m	3 m	2 m	Min. Radius						
7 m	4 016*	6.25	3 923	6.25		4 466*	4 246			4 427*	5.78	4 427*	5.78			
6 m	3 925*	6.97	3 164	6.97		4 497*	4 207			4 503*	5.67	4 503*	5.67			
5 m	3 939*	7.49	2 707	7.49		4 636*	3 089	4 781*	4 089		5 005*	5.16	5 005*	5.16		
4 m	3 861	7.84	2 415	7.84		4 722	2 993	5 238*	3 918	5 831*	5 304	6 847*	6 847*	7 342*	3.67	
3 m	3 611	8.05	2 228	8.05	3 654	2 257	4 593	2 875	5 796*	3 722	6 750*	4 972	8 472*	7 019	12 366*	10 939
2 m	3 477	8.14	2 121	8.14	3 579	2 188	4 461	2 754	5 719	3 528	7 660*	4 657	9 992*	6 469		
1 m	3 443	8.10	2 081	8.10	3 511	2 124	4 343	2 647	5 535	3 363	7 393	4 408	10 746	6 106		
0 m	3 510	7.93	2 109	7.93		4 255	2 566	5 401	3 243	7 206	4 246	10 523	5 923	8 256*	8 256*	
-1 m	3 698	7.63	2 217	7.63		4 205	2 521	5 324	3 174	7 111	4 163	10 445	5 858	11 208*	7 576*	
-2 m	4 060	7.17	2 436	7.17		4 206	2 522	5 307	3 158	7 095	4 149	10 465	5 875	14 733*	9 616	
-3 m	4 719	6.53	2 839	6.53				5 356	3 202	7 152	4 199	10 568	9 560	13 709*	9 774	
-4 m	6 029	5.64	3 628	5.64					7 299	4 326	9 530*	6 122	12 065*	10 025	16 013*	16 013*
-5 m	6 815*	4.35	5 622	4.35					7 471*	6 411			9 292*	3.08	9 292*	3.08

SH210-5 SHOE : 800 (mm)G BUCKET : SAE/PCSA 1.0 (m³) ARM LENGTH = 1.91 (m) MAXIMUM REACH = 7.66 (m) BOOM : 5.70 (m)

Bucket Hook Height	Radius of Load													
	Max. Radius		8 m	7 m	6 m	5 m	4 m	3 m	2 m	Min. Radius				
7 m	4 997*	5.61	4 688	5.61		4 989*	4 126			4 959*	5.30	4 959*	5.30	
6 m	4 910*	6.40	3 650	6.40		5 229*	4 025	5 624*	5 491		5 081*	5.17	5 081*	5.17
5 m	4 812	6.96	3 067	6.96		4 683	2 960	5 656*	3 865	6 386*	5 201	7 698*	6 296	
4 m	4 306	7.34	2 709	7.34		4 570	2 857	5 885	3 680	7 271*	4 879	9 319*	6 795	
3 m	4 004	7.57	2 488	7.57		4 453	2 750	5 686	3 502	7 594	4 587	10 698*	6 296	
2 m	3 848	7.66	2 365	7.66		4 285	2 596	5 417	3 260	7 205	4 249	10 512	5 920	
1 m	3 816	7.62	2 326	7.62		4 353	2 658	5 525	3 357	7 348	4 374	10 638*	6 024	
0 m	3 909	7.44	2 370	7.44		4 285	2 596	5 417	3 260	7 205	4 249	10 512	5 920*	
-1 m	4 160	7.12	2 515	7.12		4 261	2 575	5 368	3 217	7 151	4 202	10 501	5 910*	
-2 m	4 647	6.63	2 809	6.63		5 382	3 229	7 172	4 221	10 570	5 967	14 002*	9 794	
-3 m	5 580	5.93	3 372	5.93			7 271	4 307	10 211*	6 090	12 769*	9 982	16 311*	16 313*
-4 m	7 073*	4.93	4 591	4.93				8 743*	6 305	10 846*	10 285		12 496*	2.37
-5 m												12 496*	2.37	

Notes: 1. Ratings are based on SAE J/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

Principle Specifications

	SH210-5	SH210LC-5
	STD Specifications	
Base	Boom length Arm length Bucket capacity (ISO heaped) Std. operating weight	5.70 m 2.94 m 0.80 m ³ 20 000 kg
Engine	Make & model Rated output Displacement	ISUZU AI-4HK1X 117.3 kw/1 800 min ⁻¹ 5 193 ml(cc)
Hydraulic System	Main pump Max pressure (with auto power boost)	2 variable displacement axial piston pumps with regulating system 34.3 Mpa 36.8 Mpa
Performance	Travel motor Parking brake type Swing motor	Variable displacement axial piston motor Mechanical lock brake Fixed displacement axial piston motor
Others	Travel speed Traction force Grade ability Ground pressure Swing speed Bucket /with power boost Arm /with power boost Fuel tank Hydraulic fluid tank	5.6/3.4 km/h 201 kN (20,496 kgf) 70% <35°> 45 kPa 11.5 min ⁻¹ 142 kN 152 kN 103 kN 110 kN 410 liters 240 liters

Standard equipment

[Hydraulic system]

- SH:S hydraulic system
- Operation mode (SP, H and A mode)
- Auto/one-touch idling
- Automatic 2-speed travel
- Automatic power boost
- Arm/boom/bucket reactivation circuit
- Automatic swing parking system
- High-performance return filter

[Safety equipment]

- Rearview mirror (left/right)
- Emergency escape tool
- Winding seat belt
- Gate lock lever
- Travel alarm (with on and off switch)
- Anti-theft alarm system
- Engine room firewall
- Fan guard
- Engine emergency stop switch

Accessories (option)

■ Cab-top light



■ Rain reflector



■ 12V power (DC-DC converter)



■ Head guard (FOPS level 2)



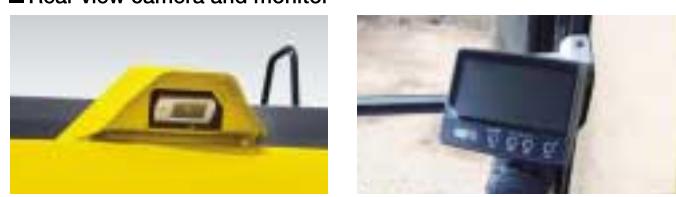
■ Polycarbonate with sunshade roof top window



■ Air suspension (KAB seat)

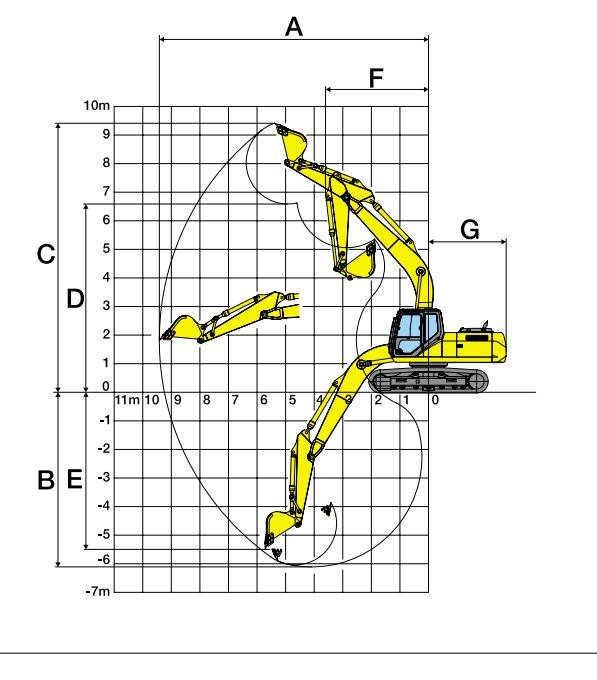


■ Rear view camera and monitor

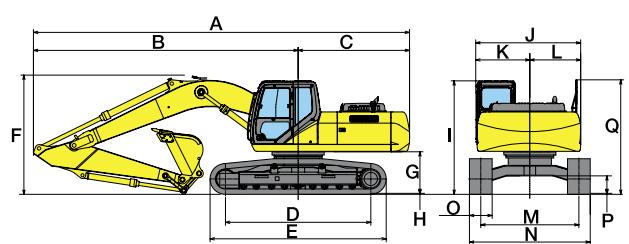


Working Range

	SH210-5/SH210LC-5		
	Arm length	2.40 m	2.94 m
	Boom length	5.70 m	
A	Max digging radius	8 960 mm	9 420 mm
B	Max digging depth	5 610 mm	6 110 mm
C	Max digging height	9 160 mm	9 410 mm
D	Max dumping height	6 330 mm	6 590 mm
E	Max vertical wall cut depth	5 010 mm	5 500 mm
F	Min. front swing radius	3 580 mm	3 600 mm
G	Rear end swing radius	2 750 mm	



Dimensions



Model

	SH210-5 (SH210LC-5)
Arm length	1.90 m
A Overall length	9 490 mm
B Length from center of machine (to arm top)	6 770 mm
C Upper structure rear end radius	2 720 mm
D Center to center of wheels	3 370 mm (3 660 mm)
E Overall track length	4 180 mm (4 470 mm)
F Overall height	3 090 mm
G Clearance height under upper structure	1 040 mm
H Shoe lug height	26 mm
I Cab height	2 940 mm
J Upper structure overall width	2 770 mm
K Width from center of machine (left side)	1 430 mm
L Width from center of machine (right side)	1 340 mm
M Track gauge	2 200 mm (2 390 mm)
N Overall width	2 800 mm (2 990 mm)
O Std. Shoe width	600 mm
P Minimum ground clearance	440 mm
Q Handrail height	2 960 mm