SUMITOMO

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

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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 and Hydraulics 04-07 New Generation Engine System "SPACE 5+" Performance Refined. ·New Hydraulic System "SIH:S+" ·SUMITOMO Fuel Efficiency Technology Drastically Increased Productivity Evolution Defined. Durability and Maintenance 08-09 ·High Rigidity Attachments ·Ground Level Maintenance Safety and Operator Comfort 10-13 SUMITOMO ·Stylish and Spacious Cabin ·High-Definition Full Colour LCD Monitor ·FVM® (Field View Monitor) (option) Specifications 14-19 SUMITOMO **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,

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.





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



SH235X-6 has achieved a 29% fuel saving

in comparison with our DASH 3B 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 INIQUE DESIGN

There are three new working modes available: SP (Super Power) for heavy duty applications, H (Heavy) for normal working conditions, and 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 15% Reduction in Fuel Consumption

H mode 29% Reduction in Fuel Consumption

• A mode 19% Reduction in Fuel Consumption
(as compared with SH225X-3B. SP mode and H mode has been compared with N mode, and A mode with E mode)

*Fuel consumption may vary from time to time depending on site and working conditions, operator skill and other circumstances.

ECO Gauge to Display Energy Efficiency Operation

An ECO Gauge and fuel consumption indicator are included within the monitor to make energy efficiency recognisable in an instant.





SUMITOMO Technology for Fuel Efficiency

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

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

● 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

● 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.





Boom

Swing

Travelling

Auxiliary

Heat Circuit Cushion Valve

Slope Travel Assist Control

In-cab Pressure Control

Swing Relief Control

BES (Boom-down Energy Save)

Aux. Hydraulic Circuit Automatic One/Two Pump Flow Swi

Control valve

Reduction in Flow Force

Ontimised Control Valve

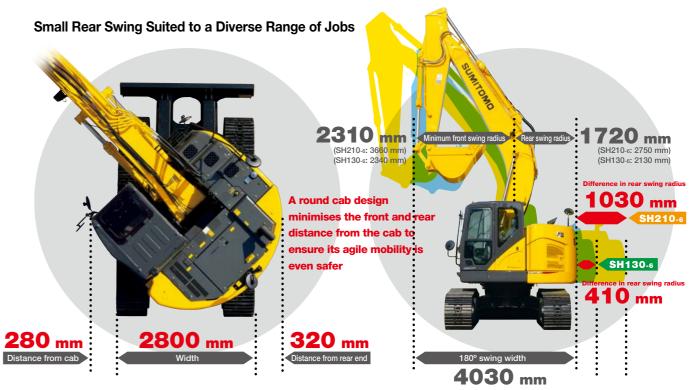
Aux. Hydraulic Circuit In-cab Pressure Control

AES (Auto Energy Save)

Main

Controller

Engine



Note: The figures shown above are achieved when standard counterweights are installed. The minimum rear swing will differ to these figures when heavier counterweights are installed.

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.

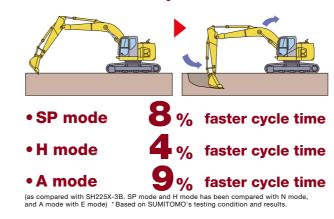
8% Faster Cycle Time (SP mode)

Speed increase by 8% in cycle time has been achieved, giving further advance in productivity (as compared with SH225X-3B [N 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 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".

Speed and Power, Dramatically Increases Productivity



Remarkable Combined Operation

Prevents rapid deceleration upon combined operation such as attachment operation when travelling, 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.

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).

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 the selected mode can be easily viewed on the 7" wide monitor.



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.



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

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

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

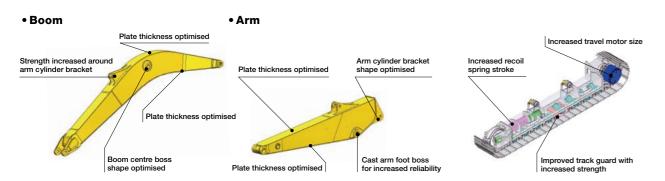
High Rigidity Attachments

Precautionary use of EMS

The structure of the boom and arm has been further improved, ensuring strength and durability. In addition, high strength castings are used for the boom base and arm end, improving reliability.

High Rigidity Undercarriage

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



Ground Level Access to Engine Area Improves Preventative Maintenance

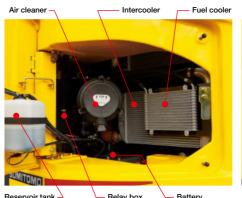
Parts cleaning and maintenance are possible from the ground without climbing onto the upper structure of the excavator body.

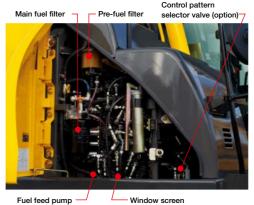
Increased Cooling Capability

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

• Easy Filter Replacement

A fuel prefilter and clogging sensor to the main fuel filter are 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.







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 depending on the working condition

Cab Floor Mat SUMITOMO INJUIS DESIGN

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



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.



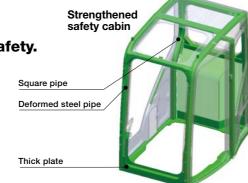


Safety and Operator Comfort

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.

Rearview Camera (option)

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







Safe and Easy Entry into and Exit from the Cab

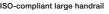
A large handrail for easy opening/closing of the door and increased floor space permit the operator to get in and out of the cab easily.



Easy Access to the Upper Structure









Rearview Mirror

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





Safety Equipment







FVM for Greater Worksite Safety (option) SUMITOMO UNIQUE DESIGN

As an additional option, the monitor can be upgraded to Sumitomo's proprietary FVM (Field View Monitor), which provides a clear, top-down view of the excavator around to 230° during the day and at night. This makes it so much easier for the operator to monitor the area nearby, enhancing overall safety on worksites. Different camera views can also be toggled on a single monitor.





Easy Switching

A single button is used to toggle the image through the top-down view and individual cameras (right side, rear). Safety checks can be made using the desired or appropriate view.



Safety and **Operator Comfort**

The spacious cab on fluid mounts and reclining suspension seat help reduce operator fatigue and provide a relaxed environment.

Comfort Cabin to seat: +45 mm Foot space: +35 mm (as compared with SH225X-3B)

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.



Indicators

- 1 Working modes 2 Travel speed
- 3 Work lights 4 Engine idle modes
- 5 Anti-theft 6 Attachment selection
- 7 Digital clock 8 ECO gauge
- Travel speed button
- B Fuel consumption button
- Camera on/off

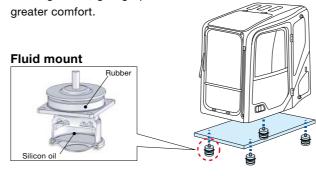
- 9 Fuel level gauge
- 10 Engine coolant temperature
- Fuel consumption indicator 12 Hydraulic oil temperature
- 13 Power boost 14 Radio mute
- 15 Hour meter

Switch Panel

- O Aux. hydraulics settings
- O Computer menu
- B Hour meter / Camera toggle button
- Window washer control Engine idle mode button
- Worklights on/off
- Window wiper control

Super Comfortable Cab Mounts and Pressurised Cab

Fluid mounts that support the cab absorb shocks and vibrations effectively, improving ride comfort. The cab also features a pressurised design to prevent dust from entering inside, giving operators



Ample Legroom and Comfortable Seats

Legroom around the cab has been increased for comfortable operations. The operator seat features a head rest and arm rests, and comes with a wide range of seat adjustment functions with a comfortable suspension system.





Comfortable Equipment





Magazine rack

Automatic Air Conditioner

An automatic air conditioner is included to keep the cab interior at the ideal temperature. The sealed, pressurised cab helps to increase air conditioner efficiency.



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.



Roof Window for Greater Freedom

A new pop-up roof window (made of polycarbonate) with sun shade has been installed for greater comfort.



Under-cab Storage Space

Storage space has been included under the cab for various tools.



Specifications

SH235X-6 Technical Data

Electronic-controlled engine of SPACE 5+ and SIH: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

Engine							
SH235X-6							
Model	ISUZU GI-4HK1X						
Туре	Water-cooled, 4-cycle diesel, 4-cylinder in line, high pressure common rail system (electric control), turbocharger with air-cooled intercooler.						
Rated output	117.3 kW (159.5 PS) at 1,800 min ⁻¹ (rpm)						
Maximum torque	608 N-m at 1,500 min ⁻¹ (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	320 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.

SH235X-6					
Maximum oil flow	2 x 211 ltr/min				
Pilot pump max.oil flow	18 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/cm²)	
Boom/arm/bucket 36.8 MPa (375 kgf/cm²) with auto power-up	
Swing circuit29.4 MPa (300 kgf/cm²)	
Travel circuit34 3 MPa (350 kgf/cm²)	

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 One 1-spool valve for blade

Oil filteration

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	120 mm x 85 mm x 1,370 mm
Arm	1	140 mm x 100 mm x 1,460 mm
Bucket	1	120 mm x 85 mm x 1,010 mm
Blade	2	130 mm x 80 mm x 260 mm

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

Cab & 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. 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.

SH235X-6					
Swing speed	0~11.8 min ⁻¹ (rpm)				
Tail swing radius	1,720 mm				
Swing torque	64.0 kN·m (6,526 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 tin bronze casting, sealed for lifetime lubrication.

Lower rollers

Heat treated, mounted on steel bushings

with leaded tin 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

SH235X-6					
Upper rollers	2				
Lower rollers	7				
Track shoes	46				

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 switch panel on the monitor display. Hydraulically released disc parking brake is built into each motor.

		SH235X-6
Traval appead	High	5.0 km/h
Travel speed	Low	3.2 km/h
Drawbar pull		201 kN (20,496 kgf)

Lubricant & coolant capacity

	SH235X-6
Hydraulic system	252 ltr
Hydraulic oil tank	114 ltr
Fuel tank	320 ltr
Cooling system	30.9 ltr
Final drive case (per side)	5.0 ltr
Swing drive case	5.0 ltr
Engine crank case	23.1 ltr

Auxiliary hydraulic system

SH235X-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	211 ltr/min	422 ltr/min	422+73 ltr/min				

Bucket

Options and specifications may differ depending on countries and regions

Model			SH235X-6									
Bucket capacity (ISO/SAE/PCSA	heaped)	0.50 M3 0.80 M3		0.80 M3		0.90 M3		1.00 M3		1.10 M3		
Bucket capacity (CECE heaped)		0.45 M3 0.70 M3		0.70 M3		0.80 M3		0.90 M3		0.90 M3		
Bucket type		STD	STD	Level-pin	Heavy duty		Heavy duty Super-V	STD	Level-pin	STD	Level-pin	STD
Number of teeth		3		5		5		į	5	(6	6
Midth unit mm	With side cutter	830	1,	130		1,136		1,2	230	1,3	360	1,460
Width unit: mm Without side cutter		730	1,0	030		1,036		1,1	30	1,2	260	1,360
Weight unit: kg		523	654	639	730	726	736	694	674	747	729	780
Combination	2.40 m arm	•								(\supset	0
Combination	2.94 m arm		(0		0				()	0

O Suitable for materials with density up to 2,000 kg/m³ or less

Weight & Ground Pressure

Model	SH235X-6								
Shoe type	Shoe width Overall width Operating weight Ground pres								
Triple grouser shoe	600 mm	2,990 mm	25,100 kg	56 kPa					
	700 mm	2,990 mm	25,300 kg	49 kPa					
	800 mm	3,000 mm	25,600 kg	43 kPa					

Digging Force

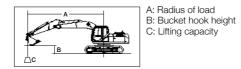
999			
Model		SH2	35X-6
Arm length		2.40 m	2.94 m
Bucket digging force	ISO 6015	142 kN <152 kN>	142 kN (152 kN)
<with boost="" power=""></with>	SAE: PCSA	127 kN <136 kN>	127 kN <136 kN>
Arm digging force	ISO 6015	123 kN <132 kN>	103 kN (110 kN)
⟨with power boost⟩	SAE: PCSA	119 kN <127 kN>	100 kN (107 kN)

O Suitable for materials with density up to 1,600 kg/m3 or less

[•] Standard bucket (suitable for materials with density up to 1,800 kg/m³ or less)

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.





Unit: kg

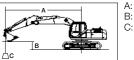
SH2	235>	(-6	UNDE BOOM		AGE : STD : 6.15			600 (mm)G SAE/PCSA			M LENGTH XIMUM RE	H : 2.4 EACH : 9.3	0 (m) 7 (m)	BLADE :	Up					
										Radius	of Load									
Bucket Hook		Max.	Radius		9	m	7.5	5 m	6	m	4.5	5 m	3	m	1.5	5 m		Min. F	Radius	
Height	ľ	h		- -	Ů		Ů		Ů		ф		Ů	;	Ů		r ^j	j	Ģ	-
9 m	(kg) 3 760*	(m) 5.32	(kg) 3 760*	(m) 5.32							3 510*	3 510*					(kg) 2 140*	(m) 4.14	(kg) 2 140*	(m) 4.14
7.5 m	3 280*	7.08	3 280*	7.08					4 410*	4 410*	3 660*	3 660*					3 560*	4.31	3 560*	4.31
6 m	3 120*	8.12	2 730	8.12			4 470*	3 200	4 950*	4 700	5 170*	5 170*					5 280*	3.95	5 280*	3.95
4.5 m	3 100*	8.72	2 330	8.72			4 740	3 120	5 500*	4 570	6 660*	6 660*	8 410*	8 410*			7 960*	1.74	7 960*	1.74
3 m	3 190*	9.00	2 140	9.00	3 200*	2 140	4 610	2 990	6 420*	4 310	8 540*	6 770	10 160*	10 160*			6 340*	2.97	6 340*	2.97
1.5 m	3 330	9.00	2 090	9.00			4 480	2 860	6 390	4 070	9 950*	6 270					6 150*	3.16	6 150*	3.16
0 m	3 460	8.72	2 180	8.72			4 370	2 760	6 200	3 900	9 870	5 980	7 690*	7 690*			5 710*	2.57	5 710*	2.57
-1.5 m	3 840	8.16	2 420	8.16			4 360	2 750	6 130	3 840	9 830	5 960	11 310*	11 220	8 200*	8 200*	5 530*	0.93	5 530*	0.93
-3 m	4 650	7.25	2 950	7.25					6 210	3 930	9 670*	6 070	13 820*	11 930	11 280*	11 280*	9 740*	0.92	9 740*	0.92
-4.5 m	5 040*	5.87	4190	5.87							7 770*	6 300	10 930*	10 930*			15 310*	1.77	15 310*	1.77

SH2	235>	< -6	UNDE		AGE : STD : 6.15		SHOE : BUCKET:	600 (mm)0 SAE/PCSA			I LENGTH KIMUM RE		0 (m) 7 (m)	BLADE :	Down					
Desalvat										Radius	of Load									
Bucket Hook		Max.	Radius		9	m	7.5	5 m	6	m	4.5	m	3	m	1.5	5 m		Min. F	Radius	
Height	ľ	h	Ç.	-	Ů	;	ф	;	Ů	;	Ů	;	ф	;	ф	;	ľ.	j	Ħ	= 0
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7.5 m	3 280*	7.08	3 280*	7.08					4 410*	4 410*	3 660*	3 660*					3 560*	4.31	3 560*	4.31
6 m	3 120*	8.12	2 860	8.12			4 470*	3 340	4 950*	4 850	5 170*	5 170*					5 280*	3.95	5 280*	3.95
4.5 m	3 100*	8.72	2 440	8.72			4 960*	3 260	5 500*	4 760	6 660*	6 660*	8 410*	8 410*			7 960*	1.74	7 960*	1.74
3 m	3 190*	9.00	2 250	9.00	3 200*	2 250	5 330*	3 130	6 420*	4 510	8 540*	7 090	10 160*	10 160*			6 340*	2.97	6 340*	2.97
1.5 m	3 390*	9.00	2 200	9.00			5 750*	3 000	7 220*	4 260	9 950*	6 570					6 150*	3.16	6 150*	3.16
0 m	3 740*	8.72	2 290	8.72			5 930*	2 900	7 630*	4 090	10 550*	6 280	7 690*	7 690*			5 710*	2.57	5 710*	2.57
-1.5 m	4 360*	8.16	2 550	8.16			5 830*	2 890	7 610*	4 030	10 420*	6 260	11 310*	11 310*	8 200*	8 200*	5 530*	0.93	5 530*	0.93
-3 m	5 130*	7.25	3 100	7.25					7 090*	4120	9 670*	6 370	13 820*	12 550	11 280*	11 280*	9 740*	0.92	9 740*	0.92
-4.5 m	5 040*	5.87	4 380	5.87							7 770*	6 570*	10 930*	10 930*			15 310*	1.77	15 310*	1.77

SH2	235>	(-6	UNDE	ERCARRIA M	GE : STD : 6.15		SHOE : BUCKET:				I LENGTH	H : 2.9 FACH : 9.8	94 (m) 85 (m)	BLADE :	Up					
D										Radius	of Load									
Bucket Hook		Max. I	Radius		9	m	7.5	5 m	6	m	4.5	5 m	3	m	1.5	5 m		Min. I	Radius	
Height	Į.	h		-	ů	;	ф	;	ů	;	ď	;	ф	;	ů	;	ľ	j	Ġ	-
9 m	(kg) 2 490*	(m) 6.23	(kg) 2 490*	(m) 6.23					3 070*	3 070*	2 020*	2 020*					(kg) 2 020*	(m) 4.50	(kg) 2 020*	(m) 4.50
7.5 m	2 210*	7.75	2 210*	7.75			2 950*	2 950*	4 000*	4 000*							3 280*	4.88	3 280*	4.88
6 m	2 110*	8.68	2 110*	8.68			4 060*	3 310	4 430*	4 430*							4 420*	4.59	4 420*	4.59
4.5 m	2 100*	9.23	2 100*	9.23	3 050*	2 270	4 600*	3 210	5 080*	4 700	5 740*	5 740*	4 970*	4 970*			4 720*	2.90	4 720*	2.90
3 m	2 180*	9.49	1 980	9.49	3 450	2 210	4 710	3 070	6 090*	4 460	7 890*	7 030	10 690*	10 690*			7 600*	2.09	7 600*	2.09
1.5 m	2 320*	9.48	1 940	9.48	3 370	2 140	4 560	2 930	6 520	4 190	9 590*	6 480	9 690*	9 690*			3 960*	2.35	3 960*	2.35
0 m	2 560*	9.22	2 010	9.22	3 320	2 090	4 430	2 820	6 280	3 980	10 010	6 100	8 670*	8 670*	3 910*	3 910*	3 750*	1.45	3 750*	1.45
-1.5 m	2 990*	8.70	2 200	8.70			4 360	2 760	6 150	3 860	9 850	5 960	10 840*	10 840*	7 050*	7 050*	5 130*	0.27	5 130*	0.27
-3 m	3 750*	7.88	2 590	7.88			4 440	2 830	6 190	3 900	9 870	6 030	14 620*	11 810	9 700*	9 700*	7 780*	0.27	7 780*	0.27
-4.5 m	5 100*	6.70	3 380	6.70					6 230	4 130	8 810*	6 230	12 630*	11 920	14 040*	14 040*	12 050*	0.93	12 050*	0.93
-6 m	5 280*	4.61	5 280*	4.61							5 500*	5 500*					7 590*	3.36	7 590*	3.36

Notes: 1. Ratings are based on ISO 10567

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



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

Load Radius
Over Front
Load Radius
Over Side

Unit: kg

SH2	235>	(-6	UNDE BOOM		AGE : STD : 6.15		SHOE : BUCKET :	600 (mm) SAE/PCS			M LENGTH XIMUM RE		94 (m) 85 (m)	BLADE :	Down					
										Radius	of Load									
Bucket Hook		Max.	Radius		9	m	7.5	i m	6	m	4.5	5 m	3	m	1.5	i m		Min. I	Radius	
Height	ľ	h	Ģ	-	ů		ů		ů		Ů		Ů		ů		ď	j	G	<u> </u>
9 m	(kg) 2 490*	(m) 6.23	(kg) 2 490*	(m) 6.23					3 070*	3 070*	2 020*	2 020*					(kg) 2 020*	(m) 4.50	(kg) 2 020*	(m) 4.50
7.5 m	2 210*	7.75	2 210*	7.75			2 950*	2 950*	4 000*	4 000*							3 280*	4.88	3 280*	4.88
6 m	2 110*	8.68	2 110*	8.68			4 060*	3 450	4 430*	4 430*							4 420*	4.59	4 420*	4.59
4.5 m	2 100*	9.23	2 100*	9.23	3 050*	2 380	4 600*	3 350	5 080*	4 860*	5 740*	5 740*	4 970*	4 970*			4 720*	2.90	4 720*	2.90
3 m	2 180*	9.49	2 080	9.49	4 040*	2 320	5 110*	3 210	6 090*	4 650	7 890*	7 280	10 690*	10 690*			7 600*	2.09	7 600*	2.09
1.5 m	2 320*	9.48	2 040	9.48	4 450*	2 250	5 620*	3 070	6 980*	4 380	9 590*	6 790	9 690*	9 690*			3 960*	2.35	3 960*	2.35
0 m	2 560*	9.22	2 110	9.22	3 870*	2 200	5 920*	2 960	7 550*	4 170	10 470*	6 400	8 670*	8 670*	3 910*	3 910*	3 750*	1.45	3 750*	1.45
-1.5 m	2 990*	8.70	2 310	8.70			5 930*	2 890	7 670*	4 050	10 540*	6 270	10 840*	10 840*	7 050*	7 050*	5 130*	0.27	5 130*	0.27
-3 m	3 750*	7.88	2 720	7.88			5 560*	2 970	7 430*	4 090	10 130*	6 330	14 620*	12 500	9 700*	9 700*	7 780*	0.27	7 780*	0.27
-4.5 m	5 100*	6.70	3 540	6.70					6 310*	4 320	8 810*	6 530	12 630*	12 470*	14 040*	14 040*	12 050*	0.93	12 050*	0.93
-6 m	5 280*	4.61	5 280*	4.61							5 500*	5 500*					7 590*	3.36	7 590*	3.36

SH2	235>	(-6	UNDE		AGE : STD : 6.15			: 600 (mm)			M LENGTI XIMUM RE	H : 2.9 EACH : 9.8	94 (m) 95 (m)	BLADE :	Up					
										Radius	of Load									
Bucket Hook		Max.	Radius		9	m	7.5	5 m	6	m	4.5	5 m	3	m	1.5	5 m		Min. I	Radius	
Height	ľ	h	G	H	ů		Ů	;	ů	;	Ů		ф		ů		ľ		Ģ	ļ-
9 m	(kg) 2 480*	(m) 6.17	(kg) 2 480*	(m) 6.17					2 920*	2 920*							(kg) 2 040*	(m) 4.52	(kg) 2 040*	(m) 4.52
7.5 m	2 190*	7.71	2 190*	7.71			2 840*	2 840*	3 980*	3 980*							3 780*	4.83	3 780*	4.83
6 m	2 080*	8.66	2 080*	8.66			4 020*	3 280	4 440*	4 440*							4 450*	4.54	4 450*	4.54
4.5 m	2 070*	9.22	2 070*	9.22	2 970*	2 240	4 620*	3 180	5 010*	4 670	5 660*	5 660*	4 970*	4 970*			4 720*	2.90	4 720*	2.90
3 m	2 140*	9.49	1 960	9.49	3 420	2 180	4 670	3 040	6 050*	4 400	7 910*	6 970	10 980*	10 980*			8 110*	2.21	8 110*	2.21
1.5 m	2 280*	9.48	1 910	9.48	3 350	2 110	4 510	2 890	6 470	4 140	9 630*	6 420	8 850*	8 850*			4 070*	2.46	4 070*	2.46
0 m	2 530*	9.22	1 980	9.22	3 290	2 060	4 390	2 780	6 240	3 940	9 960	6 050	8 480*	8 480*			3 690*	1.62	3 690*	1.62
-1.5 m	2 950*	8.69	2 170	8.69			4 330	2 730	6 130	3 830	9 820	5 940	10 900*	10 900*	7 310*	7 310*	5 200*	0.38	5 200*	0.38
-3 m	3 720*	7.85	2 580	7.85			4 410	2 790	6 160	3 880	9 830	6 010	14 710*	11 780	9 950*	9 950*	8 010*	0.37	8 010*	0.37
-4.5 m	4 950*	6.58	3 460	6.58					6 130*	4 100	8 640*	6 2 1 0	12 370*	11 880	14 260*	14 260*	12 650*	1.06	12 650*	1.06

SH2	235>	(-6	UNDE		AGE : STD : 6.15	(m)	SHOE :	600 (mm) SAE/PCS			M LENGTH XIMUM RE		94 (m) 35 (m)	BLADE	: Down					
D										Radius	of Load									
Bucket Hook		Max. I	Radius		9	m	7.5	5 m	6	m	4.5	5 m	3	m	1.5	m		Min. F	Radius	
Height		h	Ċ.	-	Ů	;	Ů		ф		Ů		ů		Ů		Ę	<u>j</u>	Ç.	1_0
9 m	(kg) 2 480*	(m) 6.17	(kg) 2 480*	(m) 6.17					2 920*	2 920*							(kg) 2 040*	(m) 4.52	(kg) 2 040*	(m) 4.52
7.5 m	2 190*	7.71	2 190*	7.71			2 840*	2 840*	3 980*	3 980*							3 780*	4.83	3 780*	4.83
6 m	2 080*	8.66	2 080*	8.66			4 020*	3 420	4 440*	4 440*							4 450*	4.54	4 450*	4.54
4.5 m	2 070*	9.22	2 070*	9.22	2 970*	2 350	4 620*	3 320	5 010*	4 830	5 660*	5 660*	4 970*	4 970*			4 720*	2.90	4 720*	2.90
3 m	2 140*	9.49	2 060	9.49	3 990*	2 290	5 060*	3 180	6 050*	4 600	7 910*	7 240	10 980*	10 980*			8 110*	2.21	8 110*	2.21
1.5 m	2 280*	9.48	2 010	9.48	4 420*	2 220	5 580*	3 030	6 960*	4 330	9 630*	6 730	8 850*	8 850*			4 070*	2.46	4 070*	2.46
0 m	2 530*	9.22	2 080	9.22	3 850*	2 170	5 890*	2 920	7 530*	4 130	10 460*	6 360	8 480*	8 480*			3 690*	1.62	3 690*	1.62
-1.5 m	2 950*	8.69	2 290	8.69			5 890*	2 870	7 630*	4 020	10 500*	6 240	10 900*	10 900*	7 310*	7 310*	5 200*	0.38	5 200*	0.38
-3 m	3 720*	7.85	2710	7.85			5 450*	2 930	7 350*	4 070	10 050*	6 310	14 710*	12 470	9 950*	9 950*	8 010*	0.37	8 010*	0.37
-4.5 m	4 950*	6.58	3 630	6.58					6130*	4 290	8 640*	6 510	12 370*	12 370*	14 260*	14 260*	12 650*	1.06	12 650*	1.06

Principle Specifications Std. operating weight Boom length Arm length Bucket capacity (ISO heaped) Shoe width Counterweight Bated output Piston displacement Main pump Max pressure Std. operating weight 25,100 kg 25,100 kg 800 800 800 800 800 800 800 800 800 80
Std. operating weight Boom length Arm length Bucket capacity (ISO heaped) Shoe width Counterweight Rated output Piston displacement Main pump Max oil flow Max pressure Std. operating weight 25,100 kg 25,100 kg 82,94 m 83,08 M3 84,3 MPa
Boom length 5.70 m Arm length 2.94 m Bucket capacity (ISO heaped) 0.80 M3 Shoe width 600 mm Counterweight 6,900 kg Make & model ISUZU GI-4HK1X Rated output 117.3 kW/1,800 min-1 Piston displacement 5.193 ltr Main pump 2 variable displacement axial piston pumps with regulating system Max oil flow 2 × 211 ltr/min Max pressure 34.3 MPa
Arm length Bucket capacity (ISO heaped) Shoe width Counterweight Make & model Rated output Piston displacement Main pump Max oil flow Max pressure 2.94 m 0.80 M3 600 mm 6,900 kg ISUZU GI-4HK1X 117.3 kW/1,800 min-1 5.193 ltr 2 variable displacement axial piston pumps with regulating system 2 × 211 ltr/min 34.3 MPa
Shoe width
Shoe width
Counterweight 6,900 kg Make & model ISUZU GI-4HK1X Rated output 117.3 kW/1,800 min ⁻¹ Piston displacement 5.193 ltr Main pump 2 variable displacement axial piston pumps with regulating system Max oil flow 2 x 211 ltr/min Max pressure 34.3 MPa
Make & model Rated output Piston displacement Main pump Max oil flow Max pressure ISUZU GI-4HK1X 117.3 kW/1,800 min ⁻¹ 5.193 ltr 2 variable displacement axial piston pumps with regulating system 2 × 211 ltr/min 34.3 MPa
Rated output 117.3 kW/1,800 min ⁻¹ Piston displacement 5.193 ltr Main pump 2 variable displacement axial piston pumps with regulating system Max oil flow 2 x 211 ltr/min Max pressure 34.3 MPa
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Max oil flow 2 × 211 ltr/min Max pressure 34.3 MPa
Max oil flow 2 × 211 ltr/min Max pressure 34.3 MPa (with auto power boost 36.8 MPa
Max pressure 34.3 MPa (with auto power boost 36.8 MPa
9 /with auto nower hoost
7 With date power boost
/with auto power boost 36.8 MPa Travel motor Variable displacement axial piston motor Parking brake type Mechanical disc brake
Parking brake type Mechanical disc brake
Swing motor Fixed displacement axial piston motor
Travel speed 5.0/3.2 km/h
Drawbar pull 201 kN
Gradeability 70% (35°)
Ground pressure 56 kPa
Ground pressure Max swing speed Swing torque Bucket digging force (ISO 6015) Ground pressure 56 kPa 11.8 min ⁻¹ 64.0 kN • m (6,526 kgf • m) 142 kN
Swing torque 64.0 kN·m (6,526 kgf·m)
Bucket digging force (ISO 6015)
/with power boost 152 kN
Arm digging force (ISO 6015)
/with power boost 110 kN
Fuel tank 320 ltr Hydraulic oil tank 114 ltr
Hydraulic oil tank 114 ltr

Standard Equipment

[Hydraulic system]

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

[Cab/interior equipment]

- •Top guard OPG level1 (in cab structure)
- •4-point fluid mounts
- •Built-in type full-colour monitor display
- •Open air introducing pressurised full-automatic air conditioner
- Defroster
- KAB seat
- Seat suspension
- Armrest & headrest
- •Windscreen wiper
- (with intermittent operation function)
- Cup holder
- •AM/FM radio (with muting function and AUX port & USB port)
- •Radio mute/Windscreen wiper one-touch control on joystick
- Clock
- Magazine rack
- Accessory case
- Floor mat
- •Ashtray & cigarette lighter
- •Cab light (Auto-OFF function)
- Coat hook

Accessories (option)

[Safety equipment]

•Retracting seat belt

•Anti-theft alarm system

•Engine room firewall

•Engine neutral start

Auto/one-touch idling

•Long-life hydraulic oil

•Auto idle shutdown system

•Two lights (main unit and left of boom)

•Fuel filter (with water separator)

•Double-element air cleaner

•Grease-enclosed track link

•A set of tools

•Fuel prefilter (with water separator)

•Gate lock lever

•Fan guard

[Others]

•EMS

•Rearview mirror (left/right) •Emergency escape tool

•Travel alarm (with on and off switch)

•Engine emergency stop switch

■ Cab-top lights









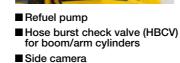






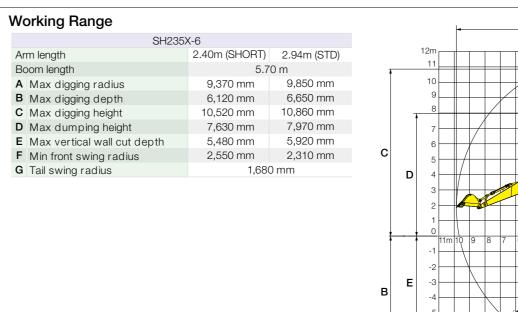


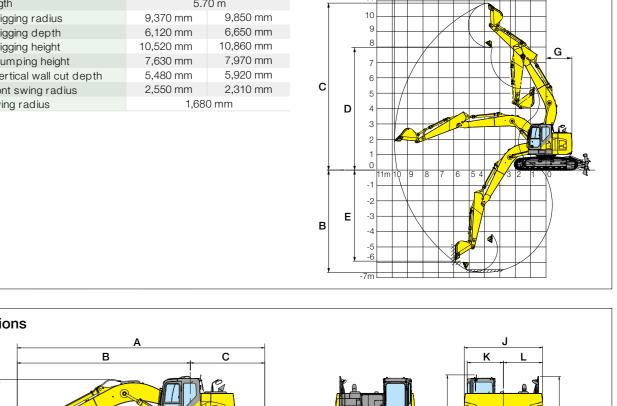






■ Rearview camera





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