SUMITOMO

The four-hundred year history of Sumitomo

SUMITOMO is one of the largest business groups in Japan, tracing its roots back to the late 1600's when they started a mining and copper smelting business, and since then have expanded and diversified their business operations on a continuing basis.



Winning Two Major Awards

The high-performance energy conservation capabilities of the "LEGEST" (SH200-5) hydraulic excavator have been widely appraised. It received the 2007 "Grand Award for Energy Conservation", awarded by the Ministry of Economy, Trade and Industry, and was also awarded the 2007 "Good Design Award".





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Kota Kinabalu Regional

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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.

SUMITOMO

SH130LF-5







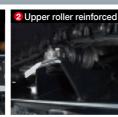
Powerful and stable travel on swampy ground. Strong traction force for skidding with 7 ton load.

With 800 mm triple grouser shoe as standard, top-class traction force (171kN) has been achieved. Minimum ground clearance is 580mm.

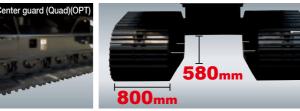










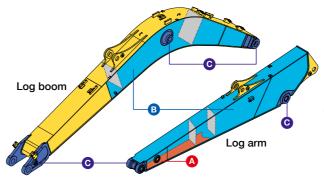


PROFITABILITY



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.



- A The reinforcement plate is added in addition to further thicker plates of arm bottom.
- B Increased thickness for improved durability, even in tough conditions.
- The molded units (forging/casting) prevent concentration of force (stress) and improve the welding quality as well.

Undercarridge under cover (9mm)

Upper under cover (6mm)



Ridged Upper Side Section Frame

A closed-section "D" shape structure with thicker plate reduces stress and is high impact resistant.



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

Side reinforcing plate

Bucket bottom plate

Guarding (Optional)

We've added a heavy-duty guard to protect the cab and housing, as well as an additional steel guard to the housing, where the major parts of the machine are located. SUMITOMO PINACAN Cab guard Housing guard (left) Photo: Standard grouser shoe is 800mm(960mm shoe pictured in the photo)













MOBILITY

Greater productivity and increased working efficiency



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





e in bucket force increase in arm digging force

• **7.5**%

ncrease in raction force

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.

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.



OPowerful OEconomy OCleanOSilent OStrong

Engine

A newly developed ISUZU engine 4JJ1X complies with Emission Regulations U.S. EPA Tier III and EU Stage IIIA. This produces greater output and torque, and far better fuel consumption than the previous model.



reduction in fuel

SH120-3 (H mode)

consumption compared to

SP (Speed Priority mode)

SP "Speed Priority" mode has been developed, which is not available in either the competitors' models or in our previous model. This offers greater productivity in its class with improved economical fuel efficiency even in comparison with the Heavy mode in our previous model. In addition, the throttle control is simple to use.

•SP mode : 2.5% increase in workload

* As compared with SH120-3 (H mode)

Mode Selection by Throttle

Mode selection by pressing the button in our previous model sometimes causes an inconvenience 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 a "H" (Heavy) mode and "SP" (Speed Priority) mode, and the hydrostatic pump oil flow will 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 8%, and the H mode of Dash 5 has reduced the fuel consumption by 15% as compared with Dash 3.



Throttle knob position	1	2	3	4~8	9~15
Engine speed	2000	1850	1700	1699~1500	1499~1050
Operation mode	SP	Н	A		
Automatic power boost	Automatic		Constant		

		Reduction in fuel consumption by 8%	SP	SPEED PRIORITY	
Н	HEAVY Speed priority		Н	HEAVY Simultaneous pursuit of speed and fuel efficiency	eed
Α	AUTO Simultaneous pursuit of speed and fuel efficiency	Reduction in fuel consumption by 15%			ing sp
s	STANDARD Fuel priority	Deduction in first	A (13 steps)	ADJUSTMENT Ordinary operation / Fine operation / Lifting operation	Work
L	LIGHT/LIFT Fine operation / Lifting operation	Reduction in fuel consumption by 9%			

SH120-3 (Previous model) SH130-5

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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.

Parallel installation of radiator and oil cooler MALAYSIA SPEC A space provided at the front of the intercooler and the tilting condenser facilitates cleaning. Not only serviceability, but also cooling efficiency is also improved by parallel installation. This enables fresh air intake by the radiator, which ensures

efficient heat release.

Air cleaner Fuel cooler Inter-cooler Radiator

Window screen Battery Open-air filter of Battery disconnect air conditioner washer bottle

Three fuel filters prevent fuel clogging MALAYSIA SPEC

By adding one more fuel pre filter, total three fuel filters are provided as a 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.

Pilot filter Pre-fuel filter(with water separator)



Engine oil filter

Main fuel filter (with water separator)

MAINTENANCE

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.



EMS bushing

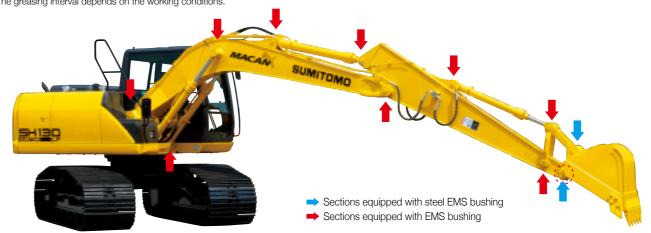


High strength brass

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

Steel EMS is installed

- •Bucket greasing interval: 250 hours
- •Greasing interval for other sections : 1,000 hours
- * The greasing interval depends on the working conditions.



Precautionary use of EMS

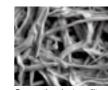
- ① Grease is enclosed, however, greasing is necessary every 1000 hours or six months depending on the level of dusting conditions.
- ② Greasing is also necessary after any components have been submerged underwater for prolonged periods.
- 3 Greasing is also recommended after use with hydraulic breakers, crushers or other high impact attachments such as Rock Saws etc.
- Bucket pins should be cleaned thoroughly when removing or attaching new buckets.

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 SUMITOMO unique design

Stainless steel is used for the strainer to prevent dust entering during re-fueling. Furthermore, a maintenance hole is provided to permit easy periodic maintenance.





Engine Oil Drain Coupler

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



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COMFORT

All-round visibility increases safety during operation

In addition to the wide frontal view, the view on the right-hand side has also been made larger for enhanced safety.



New Gate Lock Lever and Console Tilt-up Function

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





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 permits the operator to get in and out of the cab easily.





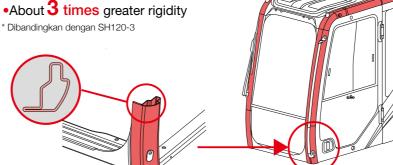
Easy Access to the Upper Structure

non-slip surface, minimizes the effort when climbing up or down the upper structure.

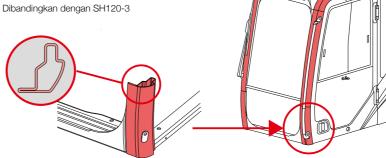
A large step and handrail, as well as a

High-rigidity Cabin

The new cabin structure provides



advanced operator protection.



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.

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

0123

CTONTH CTONTH ETDT

Anti-theft Alarm System









Emergency Safety Switch

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. Seat frame sliding distance SUMITOMO

COMFORT

SUMITOMO's Redesigned Cabin and Seat provide **Optimum Operator Comfort**

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



The Suspension Seat Eliminates Vibration

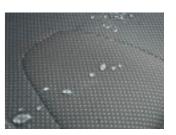




New Water-repelling Operator's Seat

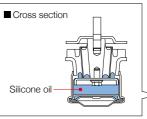
A rainwater and dust-resistant, water-repelling operator's seat has been adopted.

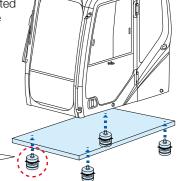




Fluid Filled Cab Mounts

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.

Convenient One-touch SUMITOMO Unique design

Muting of AM/FM Radio

Operator friendly accessory









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



Multi-function storage box







ISO-compliant Pressurized Cab to Prevent Dust Entering

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



Principle Specifications

	SH130LF-5	
Boom length	4.6 m	
Arm length	3.0 m	
Arm length Bucket capacity (ISO heaped)	0.5 m ³	
Std. operating weight	15400 kg	
Make & model	ISUZU AJ-4JJ1X	
Make & model Rated output Displacement	70.9 kw/2000 min ⁻¹	
Displacement	2999 cc	
Main pump	2 variable displacement axial piston pumps with regulating system	
Main pump Max pressure	34.3 Mpa	
	Variable displacement axial piston motor	
Travel motor Parking brake type Swing motor	Mechanical disc brake	
Swing motor	Fixed displacement axial piston motor	
Travel speed	4.7 / 2.5 km/h	
Traction force	171 kN	
Grade ability Ground pressure Swing speed Bucket digging force	70% <35°>	
Ground pressure	29 kPa	
Swing speed	14.3 min ⁻¹	
Bucket digging force	90 kN	
Arm digging force	56 kN	
Fuel tank Hydraulic fluid tank	260 liter	
Hydraulic fluid tank	157 liter	

Equipment Items	©Standard ●Option

Equipinient i	terrio	Standard Copitors
		SH130LF-5
	800mm triple grouser shoe	0
	900mm triple grouser shoe	•
	960mm single grouser shoe	•
Door couries	Center guard (Double)	©
Base carrier	Center guard (Quad)	•
	Upper structure guarding	•
	Upper under cover (6mm)	©
	Undercarridge under cover (9mm)	
Boom	HD boom	©
Arm	Standard arm (2.5m)	•
AIII	Log arm (3.0m)	©
Bucket	0.50m³ bucket (side pin)	•
Ducket	0.55m³ bucket (side pin)	•
	Air conditioner	
Interior / Cabin	AM/FM radio	
	Suspension seat	
Others	Refuel pump	•
Otners	Anti-theft alarm system	•

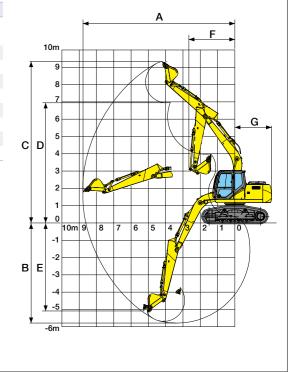
Bucket

		SH130LF-5	
Bucket capacity (ISO/SAE/PCSA heaped)		0.5 m ³	0.55 m ³
Bucket capacity (CECE heaped)		0.43 m ³	0.46 m ³
Bucket type		Side pin	Side pin
Number of teeth		5	5
Width	With side cutter	972mm	1057mm
	Without side cutter	898mm	983mm
Berat		378kg	396kg
Combination	2.5 m Standard arm	©	0
	3.0 m Long arm	0	_

- © Standard bucket (Suitable for materials with density up to 1,800 kg/m³ or less)
- O Suitable for materials with density up to 1,600 kg/m³ or less

Working Range

		SH130LF-5		
An	m length	2.5 m With 0.55m ^o Bucket	3.0 m With 0.5m ^a Bucket	
Вс	oom length	4.6 m	4.6 m	
Α	Max digging radius	8320 mm	8780 mm	
В	Max digging depth	5280 mm	5790 mm	
С	Max digging height	9050 mm	9330 mm	
D	Max dumping height	6650 mm	6940 mm	
Ε	Max vertical wall cut depth	4690 mm	5090 mm	
F	Min front swing radius	2340 mm	2660 mm	
G	Rear end swing radius	2130 mm	2130 mm	



Dimensions	
A	<
<u>B</u> → C →	 K K K K K K K K K K K K
F D H	Q Q N

	SH130LF-5	
Arm langth	2.5 m	3.0 m
Arm length	With 0.55m³ Bucket	With 0.5m³ Bucket
A Overall length (with attachment)	7570 mm	7620 mm
Length from center of machine (to arm top)	5440 mm	5490 mm
Upper structure rear end radius	2130 mm	2130 mm
Center to center of wheels	2980 mm	2980 mm
Crawler overall length	3790 mm	3790 mm
Overall height (with attachment)	2780 mm	3380 mm
Clearance height under upper structure	1160 mm	1160 mm
Shoe lug height	26 mm	26 mm
Cab height	3060 mm	3060 mm
Upper structure overall width	2500 mm	2500 mm
Width from center of machine (left side)	1250 mm	1250 mm
Width from center of machine (right side)	1250 mm	1250 mm
// Track gauge	2040 mm	2040 mm
Undercarriage overall width (with 800mm shoes)	2840 mm	2840 mm
Shoe width	800 mm	800 mm
Minimum ground clearance	580 mm	580 mm
A Handrail height	3090 mm	3090 mm

Standard equipment

[Cab/interior equipment]

- •Tilting console
- •Water-repelling operator's seat
- •Seat suspension
- •Rise-up wiper

(with intermittent operation function)

- •Cup holder
- •Clock
- •Magazine rack
- Accessory case
- Floor mat
- Armrest & headrest
- •Ashtray & cigar lighter
- •Room light (Auto-OFF function)
- •Coat hook

[Hydraulic system]

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

•Gate lock lever

- •Travel alarm (with on and off switch)
 - •Anti-theft alarm system

[Safety equipment]

•Rearview mirror (left/right)

•Emergency escape tool

•Winding seat belt

- •Engine room firewall •Fan guard
- •Engine emergency stop switch

[Others]

- •Long-life hydraulic oil
- •Two lights (main unit and left of arm)
- •Fuel filter (with water separator) •Fuel prefilter (with water separator)
- •Double-element air cleaner
- •Grease-enclosed track link
- •Bucket rattling control mechanism
- •Large tool box
- •A set of tools

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