

SUMITOMO

SH135X

MINIMUM SWING RADIUS

LEGEST



●There are times when we may change the content of the catalogue without warning ●There are times when printed photographs may differ from the retailer's actual specifications
●Photographs shown above have been taken in poses for use in this catalogue. When exiting machinery, please ensure that operational equipment is always grounded, and that every effort has been made to ensure safety ●There are times when the color of catalogue photographs may, as a result of the printing process, differ from the actual color ●Please always ensure that you have read the instruction manual before operating this vehicle ●A special license (Certification of the completion of a vehicle type construction machinery skilled operator's course) is required to operate construction machinery in excess of 3 tons ●Operation of specified cranes requires completion of a vehicle type construction machinery skilled operator's course, or completion of a small size mobile crane skilled operator's course

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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 in 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.)



LEGEST
SH135X



Minimum Swing Radius

In addition to boasting top-class compact rotational capability for cramped areas, outstanding stability, and powerful digging and drive strength have been realized. On various kinds of work-sites it can always be trusted to perform and maneuver exactly as the operator intends.



High-level operational performance and environmental soundness have been simultaneously achieved. The new-type "SPACE 5" engine system meets the newly enacted Japanese Off-road machinery regulation (Law on Regulation of Special Motor Vehicle Exhaust)

Clearing the Non-road Special Motor Vehicle Exhaust Emission Standard

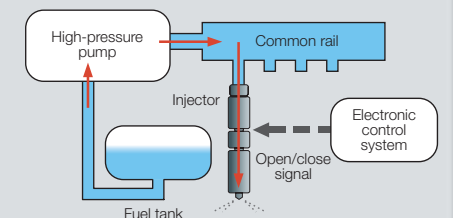
"Achieving an exceptionally high standard for the 5 major qualities required of construction machinery", that is the solution provided by the SPACE5 engine that will meet the demands of the next generation.

SPACE5

SUMITOMO Powerful And Clean Engine System
1 Powerful 2 Economy 3 Clean 4 Silent 5 Strong

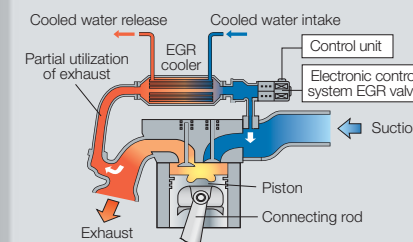
Common rail fuel injection system

The super-high-pressure common rail fuel injection system realizes super-high-pressure, high-precision multiple-injections. Timing and volume of fuel injection is controlled, which improves consumption efficiency, and PM (particulate matter) is greatly reduced.



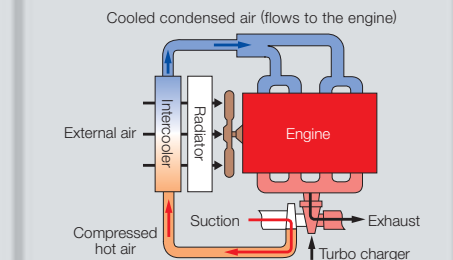
Cooled EGR system

Exhaust gas is re-circulated and combustion temperature lowered by the EGR (Exhaust Gas Recirculation) engine. In addition, a water-cooled EGR system has been employed, which further efficiently reduces NOx (nitrogen oxide).



4-valve DOHC turbo engine with intercooler

Air intake efficiency is improved by the intercooler. It cools air taken in, which has been heated by the compression of the turbo charger. In addition to a great reduction of NOx and PM, high output and improved fuel consumption have been realized.



● Performance capacity **4% UP**

(As compared with SH130-5 in H-mode)

● Standard output **8% UP**
70.9kW/2000min⁻¹

Diversified operational field

Road works

Forest road works

Demolition works

Improvements to precision maneuverability

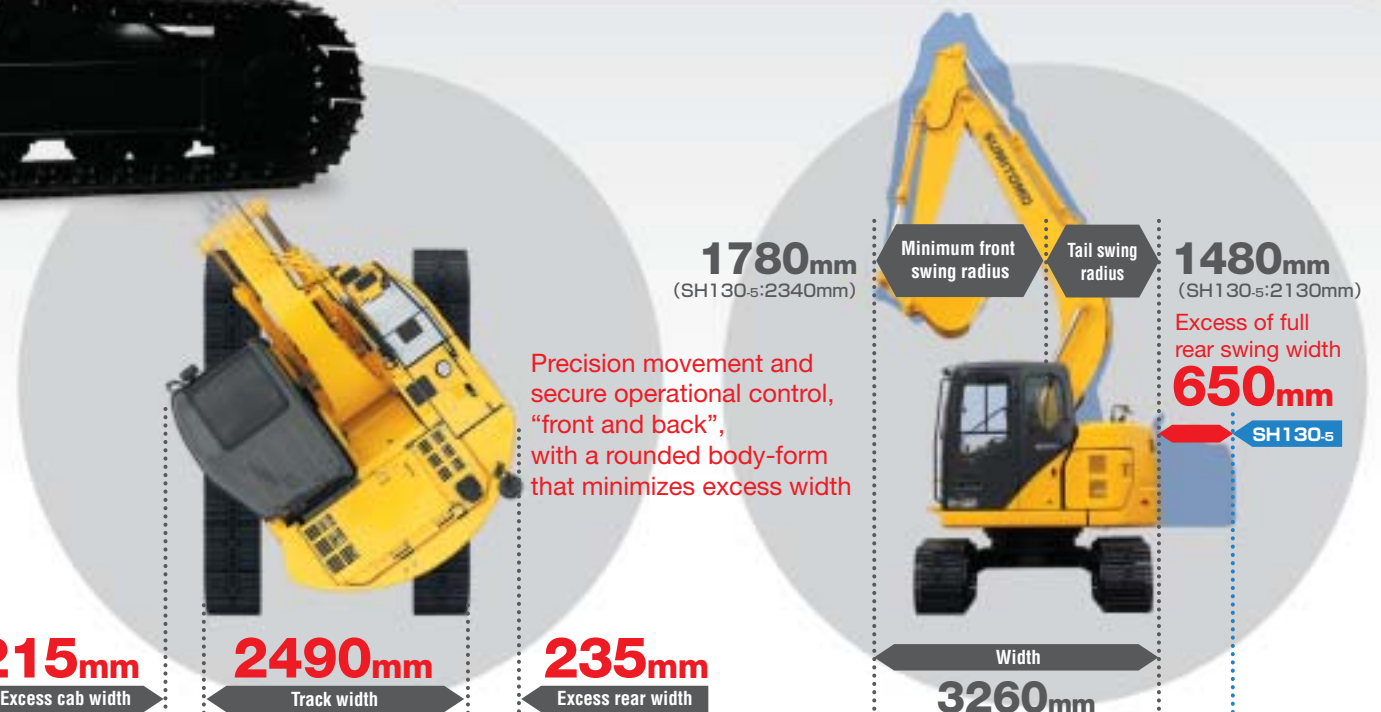
Precision maneuverability that functions exactly as the operator intends has been made possible through the employment of a new type of rotational bearing.

Rotational ABS

A rotation shock-absorber device has been installed to soften jolts that occur when the vehicle halts rotation. This is particularly useful for pinpointing position, and preventing spillages during manual operation.

Employment of speed assisted mechanics

Through employing an oil return system in the arm and boom, speed assisted operations for digging, as well as fuel consumption, have been improved.



Precision movement and secure operational control, "front and back", with a rounded body-form that minimizes excess width

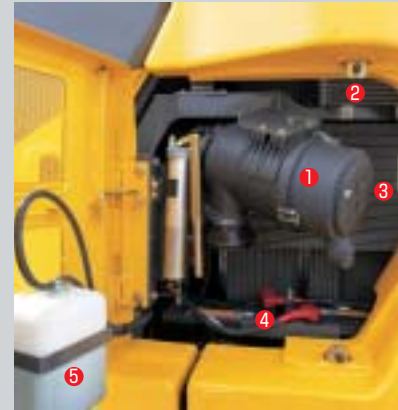
Maintenance

Diverse innovations designed to reduce running costs and make maintenance easy. In terms of both cost and labor, you will really come to appreciate its efficiency the longer you use it.



Ground Level Access

Various parts of the excavator can now be cleaned and changed from ground level without climbing onto the body of the vehicle. Maintenance is no longer troublesome.



- ① Double element air cleaner
- ② Fuel cooler
- ③ Condenser
- ④ Battery (maintenance free)
- ⑤ Reserve tank

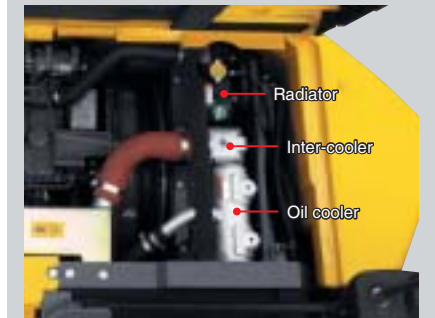


Fuel, filter remote

Thanks to the installation of a fuel pre-filter as standard, breakdowns caused by fuel blockages are reduced. In addition, because the fuel filter is installed in a position that can be accessed from ground level, replacing it is made simple.

- ① Fuel pre-filter (with water separator)
- ② Fuel filter (with water separator)

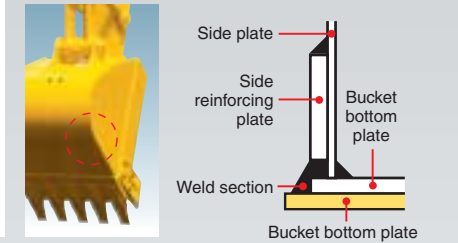
Ease of cleaning around radiator



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.



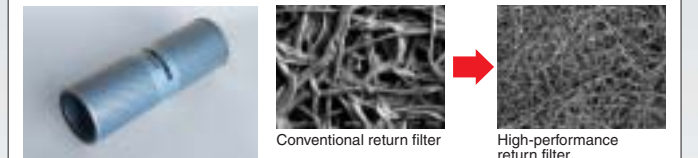
High-Performance Return Filter

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 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.



EMS (Easy Maintenance System) as Standard

SUMITOMO unique design

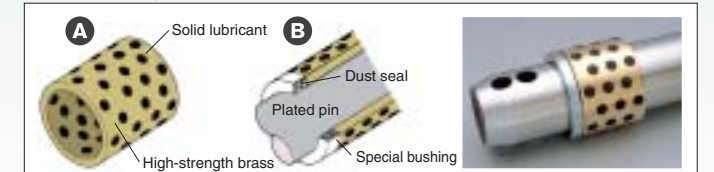
SUMITOMO's new improved EMS keeps the pins and bushes fully lubricated at all times and prevents rattling. This system significantly extends the service life of the pins and bushes.

The interval of greasing around the bucket is 250 hours, and the interval 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 the abrasion of joints.

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

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.

Operation mode-change switch



The customer can easily switch between N Mode, which maximizes operational capacity, and E Mode, which prioritizes fuel economy, as required.

Fuel consumption rate
Improved by approximately
26%
(when in E Mode)

Cycle time
Reduced by approximately
4%
(when in N Mode)

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 spattering because of the attached drain hose.



Operator Comfort and Safety

How safely, and in what level of comfort can the driver carry out daily operations?
We have extended every possible care and attention to ensure that both safety and comfort are provided.



Comfortable and spacious cab

Spacious foot space

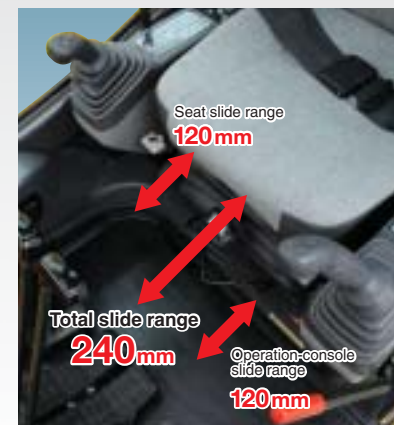


Travel pedals are optional equipment

Floor design allows easy access to and from cab



Full operation-console slide adjustment (Reclining seat)



Air conditioner installed as standard

An air conditioner is fitted as standard. Front facing airflow vents and a defrosting function allow a pleasant work environment to be maintained.

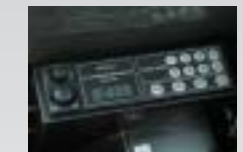
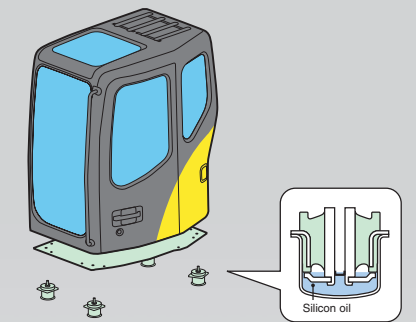


Slide-door windows



Employment of fluid-mount suspension to reduce fatigue

Impacts and vibrations on the cab are effectively absorbed, providing a pleasant and comfortable ride, as well as reducing noise levels inside the cab. Operator fatigue is reduced.

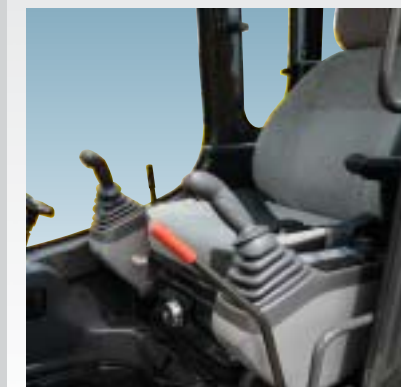


AM/FM radio

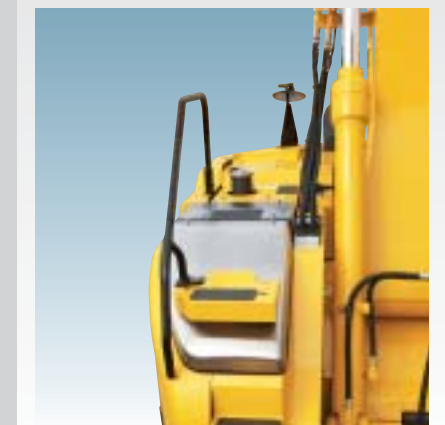


Stereo speakers

Gate-type lock lever on the operation lever to prevent operational errors



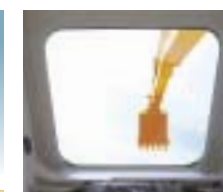
Large hand rail on front right side



Emergency escape hammer



Reversing rear-view mirror



Cab roof window



Membrane switch



Emergency stop switch



Defroster/Cup holder

■ Lifting Capacity

BLADE : UP
 ARM : STD ARM
 SHOE : 500G
 BUCKET : 0.50BUCKET

ARM LENGTH = 2.39 (m)
 MAXIMUM REACH = 7.12 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load									
		Max. Radius	7m	6m	5m	4m	3m	2m	Min. Radius		
6m	We	1920*	5.33			2460*	3160*			3260*	3.5
	Ws	1920*	5.33			2460*	3160*			3260*	3.5
5m	We	1470*	6.19	1970*	3210*	3540*				3520*	3.24
	Ws	1470*	6.19	1970*	2940*	3540*				3520*	3.24
4m	We	1460*	6.66	2830	3870	4330*	4410*			4280*	2.41
	Ws	1460*	6.66	2090	2860	4150	4410*			4280*	2.41
3m	We	1500*	6.96	2760	3740	5300*	6750*	10210*		9580*	1.63
	Ws	1500*	6.96	2030	2750	3930	6300	10210*		9580*	1.63
2m	We	1580*	7.1	1990*	2680	3600	5180	8360*		3560*	2.17
	Ws	1470	7.1	1510	1960	2610	3690	5760		3560*	2.17
1m	We	1720*	7.1	2030	2600	3460	4940	8130		2610*	2.16
	Ws	1430	7.1	1470	1880	2490	3470	5370		2610*	2.16
0	We	1930*	6.95	2540	3360	4780	7900	3440*		3200*	1.64
	Ws	1450	6.95	1820	2400	3330	5170	3440*		3200*	1.64
-1m	We	2140	6.65	2500	3300	4690	7820	5130*		4180*	1.39
	Ws	1540	6.65	1790	2340	3250	5110	5130*		3970*	1.07
-2m	We	2390	6.18	2500	3280	4670	7830	7000*		5900*	1.39
	Ws	1710	6.18	1780	2320	3230	5120	7000*		5560*	1.07
-3m	We	2890	5.48		3310	4710	7000*	9030*		7810*	1.39
	Ws	2070	5.48		2350	3270	5180	9030*		7310*	1.07
-4m	We	3350*	4.46			3930*	5070*	6240*		6680*	1.65
	Ws	2880	4.46			3370	5070*	6240*		6680*	1.65

WE : OVER END WS : OVER SIDE

BLADE : DOWN
 ARM : STD ARM
 SHOE : 500G
 BUCKET : 0.50BUCKET

ARM LENGTH = 2.39 (m)
 MAXIMUM REACH = 7.12 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load									
		Max. Radius	7m	6m	5m	4m	3m	2m	Min. Radius		
6m	We	1920*	5.33			2460*	3160*			3260*	3.5
	Ws	1920*	5.33			2460*	3160*			3260*	3.5
5m	We	1470*	6.19	1970*	3210*	3540*				3520*	3.24
	Ws	1470*	6.19	1970*	2940*	3540*				3520*	3.24
4m	We	1460*	6.66	2940*	3910*	4330*	4410*			4280*	2.41
	Ws	1460*	6.66	2090	2860	4150	4410*			4280*	2.41
3m	We	1500*	6.96	3750*	4510*	5300*	6750*	10210*		9580*	2.26
	Ws	1500*	6.96	2030	2750	3930	6300	9580*		9580*	1.63
2m	We	1580*	7.1	1990*	4230*	4940*	6100*	8360*		4480*	2.26
	Ws	1470	7.1	1510	1960	2610	3690	5760		3560*	2.17
1m	We	1720*	7.1	2170*	4420*	5300*	6720*	8790*		3120*	2.26
	Ws	1430	7.1	1470	1880	2490	3470	5370		2610*	2.16
0	We	1930*	6.95	4500*	5480*	6990*	7910*	4200*		4200*	2.26
	Ws	1450	6.95	1820	2400	3330	5170	3200*		3200*	1.64
-1m	We	2260*	6.65	4390*	5420*	6880*	9000*	5780*		2.26	
	Ws	1540	6.65	1790	2340	3250	5110	3970*		1.07	
-2m	We	2840*	6.18	3980*	5070*	6410*	8280*	7710*		2.26	
	Ws	1710	6.18	1780	2320	3230	5120	5560*		1.07	
-3m	We	3690*	5.48		4280*	5510*	7000*	8430*		2.26	
	Ws	2070	5.48		2350	3270	5180	7310*		1.07	
-4m	We	3350*	4.46			3930*	5070*	5920*		2.26	
	Ws	2880	4.46			3370	5070*	6680*		1.65	

WE : OVER END WS : OVER SIDE

BLADE : UP
 ARM : LONG ARM
 SHOE : 500G
 BUCKET : 0.37BUCKET

ARM LENGTH = 2.85 (m)
 MAXIMUM REACH = 7.47 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load									
		Max. Radius	7m	6m	5m	4m	3m	2m	Min. Radius		
6m	We	1660*	5.95			2660*	2910*			2910*	3.96
	Ws	1660*	5.95			2660*	2910*			2910*	3.96
5m	We	1610*	6.59	2480*	3010*	3070*				3040*	3.74
	Ws	1610*	6.59	2180	3010	3070*				3040*	3.74
4m	We	1620*	7.04	1700*	2870	3460*	3540*			3360*	3.1
	Ws	1590	7.04	1600	2140	2920	3540*			3360*	3.1
3m	We	1660*	7.32	2140	2800	3800	4830*	5700*	7230*	8960*	1.56
	Ws	1440	7.32	1570	2060	2800	4030	5700*	7230*	8960*	1.56
2m	We	1750*	7.45	2090	2710	3640	5270	7610*		8000*	2.12
	Ws	1360	7.45	1520	1980	2660	3770	5960		8000*	2.12
1m	We	1840	7.45	2040	2620	3490	5000	8270		3710*	2.11
	Ws	1320	7.45	1470	1900	2520	3530	5480		3710*	2.11
0	We	1860	7.31	2000	2540	3370	4800	7940	3790*	2730*	1.53
	Ws	1330	7.31	1430	1820	2400	3350	5200	3790*	2730*	1.53
-1m	We	1960	7.03	1970	2490	3290	4680	7790	5010*	3930*	1.39
	Ws	1400	7.03	1400	1770	2330	3240	5080	5010*	3620*	1.07
-2m	We	2150	6.58	2460	3250	4630	7750	6540*		5400*	1.39
	Ws	1530	6.58	1750	2290	3200	5050	6540*		5030*	1.07
-3m	We	2530	5.93		3250	4640	7690*	8470*		7080*	1.39
	Ws	1800	5.93		2300	3210	5090	8470*		6590*	1.07
-4m	We	3320	5			4720	6080*	7920*		9130*	1.39
	Ws	2360	5			3270	5190	7920*		8430*	1.07
-5m	We	2950*	3.57				3510*			3760*	2.72
	Ws	2950*	3.57				3510*			3760*	2.72

WE : OVER END WS : OVER SIDE

BLADE : DOWN
 ARM : LONG ARM
 SHOE : 500G
 BUCKET : 0.37BUCKET

ARM LENGTH = 2.85 (m)
 MAXIMUM REACH = 7.47 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load									
		Max. Radius	7m	6m	5m	4m	3m	2m	Min. Radius		
6m	We	1660*	5.95			2660*	2910*			2910*	3.96
	Ws	1660*	5.95			2660*	2910*			2910*	3.96
5m	We	1610*	6.59	2480*	3010*	3070*				3040*	3.74
	Ws	1610*	6.59	2180	3010	3070*				3040*	3.74
4m	We	1620*	7.04	1700*	3020*	3460*	3540*			3360*	3.1
	Ws	1590	7.04	1600	2140	2920	3540*			3360*	3.1
3m	We	1660*	7.32	2370*	3620*	4200*	4830*	5700*	6670*	2.26	
	Ws	1440	7.32	1570	2060	2800	4030	5700*	8960*	1.56	
2m	We	1750*	7.45	2850*	4050*	4680*	5690*	7610*	10660*	2.26	
	Ws	1360	7.45	1520	1980	2660	3770	5960	8000*	2.12	
1m	We	1890*	7.45	3200*	4290*	5110*	6430*	8930*	4540*	2.26	
	Ws	1320	7.45	1470	1900	2520	3530	5480	3710*	2.11	
0	We	2100*	7.31	3240*	4440*	5380*	6870*	8910*	4630*	2.26	
	Ws	1330	7.31	1430	1820	2400	3350	5200	2730*	1.53	
-1m	We	2440*	7.03	2560*	4440*	5450*	6930*	9140*	5710*	2.26	
	Ws	1400	7.03	1400	1770	2330	3240	5080	3620*	1.07	
-2m	We	2980*	6.58	4200*	5240*	6640*	8740*	7260*		2.26	
	Ws	1530	6.58	1750	2290	3200	5050	5030*		1.07	
-3m	We	3660*	5.93		4680*	5950*	7690*	9320*		2.26	
	Ws	1800	5.93		2300	3210	5090	6590*		1.07	
-4m	We	3530*	5			4730*	6080*	7360*		2.26	
	Ws	2360	5			3270	5190	8430*		1.07	
-5m	We	2950*	3.57				3510*	3760*		2.72	
	Ws	2950*	3.57				3510*	3760*		2.72	

WE : OVER END WS : OVER SIDE

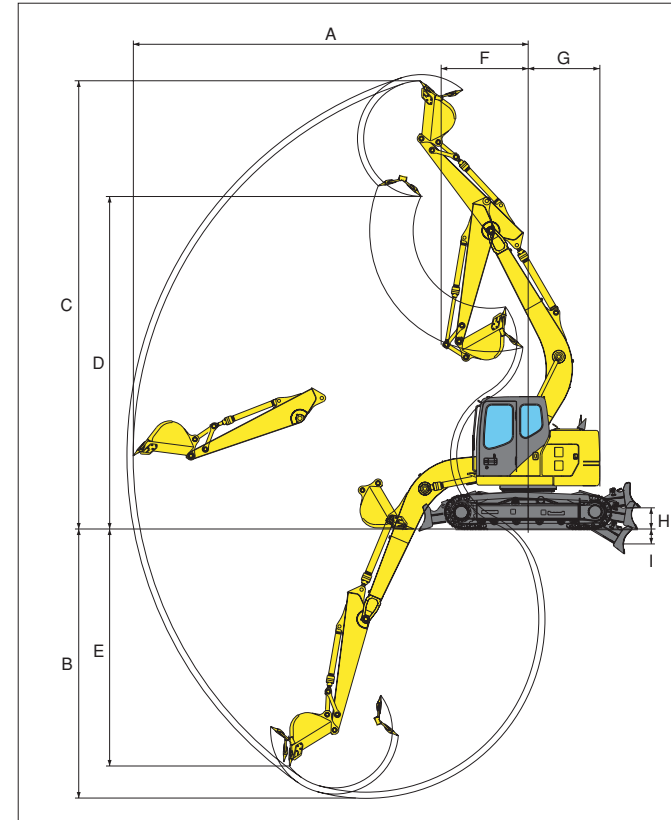
■ Standard equipment

- Hydraulics system
 - High-performance return filter
 - One-touch idle
 - Changeable 2-speed-travel
 - Rotational ABS
- Safety equipment
 - Rear-view mirror
 - Gate lock lever
 - Emergency escape hammer
 - Seat belt
 - Large-size front right side hand-rail
- Cab-top headlight
- Travel alarm
- Theft prevention dog-chain
- Boom/arm holding valve
- Engine emergency stop switch
- Cab/interior equipment
 - KAB seat
 - Large-size rounded cab
 - Fluid mount
 - Air conditioner
 - Defroster
- Automatic lock for front facing window
- Automatic point wiper connector
- Intermittent wiper with washer
- Reclining seat
- Cup holder
- Ashtray
- Room lamp
- Hat hook
- AM/FM Radio

■ Optional equipment

- Others
 - Engine that complies with tear-3 exhaust emissions regulations
 - EMS (Easy Maintenance System)
 - Long life hydraulic fluid
 - Front-face protective net for radiator
 - Aluminum radiator
 - Aluminum oil cooler
 - Tool kit
- Grease gun
- Fuel filter (With water separator)
- Fuel pre-filter (With water separator)
- Double-element air cleaner
- Quick change 4way (Kit)
- Travel pedal

■ Working Range



■ Working Range

	SH135X-3B	
Arm length	2.39m	2.85m
A Max. digging radius	8205mm	8565mm
B Max. digging depth	5470mm	5930mm
C Max. digging height	9305mm	9520mm
D Max. dumping height	6905mm	7125mm
E Max. vertical wall cut depth	4845mm	5075mm
F Min. front swing radius	1780mm	2225mm
G Rear end swing radius	1480mm	
H Max. lift above ground	440mm	
I Min. drop below ground	520mm	

■ Principal specifications

		SH135X-3B	
		STD Specifications	
	Arm length	2.39m	
	Bucket capacity (ISO heaped)	0.50m ³	
	Std. Operating weight	14200kg	
	Displacement	2999ml(cc)	
Engine	Make & model	ISUZU AJ-4JJ1X	
	Rated output	70.9kw/2000min ⁻¹	
Hydraulic System	Main pump	2 variable displacement axial piston pumps with regulating system	
	Max pressure	34.3Mpa	
	Travel motor	Variable displacement axial piston motor	
	Parking brake type	Mechanical disc brake	
Performance	Swing motor	Fixed displacement axial piston motor	
	Travel speed	5.0/3.1km/h	
	Traction force	114kN	
	Grade ability	70%<35°>	
Others	Ground pressure	46kPa	
	Swing speed	10.0min ⁻¹	
	Bucket	90kN	
	Arm	64kN	
Fuel tank	Fuel tank	165liter	
	Hydraulic fluid tank	130liter	

■ Weight & Ground pressure

Model	SH135X-3B			
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure