SUMITOMO



● 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



1

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 "Achieving an exceptionally (Law on Regulation of Special Motor Vehicle Exhaust)

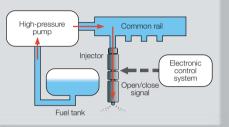
Clearing the Non-road Special Motor Vehicle Exhaust Emission Standard

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 th



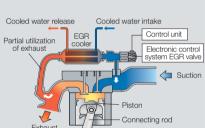
Common rail fuel injection system

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.



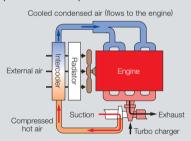
Cooled EGR system

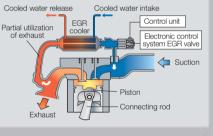
Exhaust gas is re-circulated and combustion temperature lowered by the EGR (Exhaust Gas Recirculation) engine. In addition, a water-cooled EGR system has been employed, which further efficiently reduces NOx (nitrogen oxide).



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.







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,



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



Maintenance



Operation mode-change switch



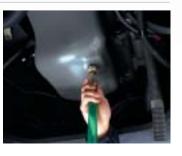
The customer can easily switch between N Mode, which maximizes operational capacity, and E Mode, which prioritizes fuel economy, as required.





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.



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
- Puel cooler
- Condenser
- 4 Battery (maintenance free)
- 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.

- Fuel pre-filter (with water separator)
- Puel filter (with water separator)

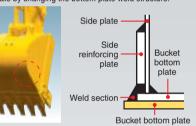
Ease of cleaning around radiator



Bucket

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

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.

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.

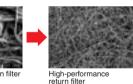
The interval of greasing around the bucket is 250 hours, and the interval for the other sections is 1,000 hours, keeping the joints lubricated for a long time and extending the service life of parts by reducing abrasion and rattling.



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



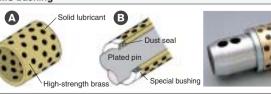




- Bucket greasing interval : 250 hours
- Greasing interval for other sections: 1,000 hours

*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 the abrasion of joints.
- 3 The surface of the pin is plated to increase the surface hardness and to improve the wear

Precautionary use of EMS

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

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

 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.

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



Floor design allows easy access to and from cab



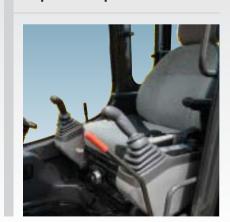
Full operation-console slide



adjustment (Reclining seat)

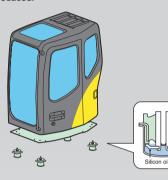


Gate-type lock lever on the operation lever to prevent operational errors



Employment of fluid-mount suspension to reduce fatigue

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







Slide-door windows

Air conditioner installed

An air conditioner is fitted as standard. Front facing

airflow vents and a defrosting function allow a

as standard

Large hand rail on front right side













Emergency stop switch

Lifting Capacity

BLADE : UP ARM LENGTH = 2.39 (m) ARM : STD ARM MAXIMUM REACH = 7.12 (m) SHOE: 500G TIPPING CAPACITY (MARK:) = 75.0 (%) BUCKET: 0.50BUCKET HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

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

WE: OVER END WS: OVER SIDE

BLADE : DOWN ARM LENGTH = 2.39 (m) ARM : STD ARM MAXIMUM REACH = 7.12 (m) SHOE: 500G TIPPING CAPACITY (MARK:) = 75.0 (%) BUCKET: 0.50BUCKET HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook		Radius of Load									
Height		Max.l	Radius	7m	6m	5m	4m	3m	Min.R	ladius	
0	We	1920*	5.33			2460*	3160*		3260*	3.5	
6m	Ws	1920*	5.33			2460*	3160*		3260*	3.5	
_	We	1470*	6.19		1970*	3210*	3540*		3520*	3.24	
5m	Ws	1470*	6.19		1970*	2940	3540*		3520*	3.24	
4	We	1460*	6.66		2940*	3910*	4330*	4410*	4280*	2.41	
4m	Ws	1460*	6.66		2090	2860	4150	4410*	4280*	2.41	
0	We	1500*	6.96		3750*	4510*	5300*	6750*	8920*	2.26	
3m	Ws	1500*	6.96		2030	2750	3930	6300	9580*	1.63	
0	We	1580*	7.1	1990*	4230*	4940*	6100*	8360*	4480*	2.26	
2m	Ws	1470	7.1	1510	1960	2610	3690	5760	3560*	2.17	
4	We	1720*	7.1	2170*	4420*	5300*	6720*	8790*	3120*	2.26	
1m	Ws	1430	7.1	1470	1880	2490	3470	5370	2610*	2.16	
0	We	1930*	6.95		4500*	5480*	6990*	7910*	4200*	2.26	
U	Ws	1450	6.95		1820	2400	3330	5170	3200*	1.64	
-1m	We	2260*	6.65		4390*	5420*	6880*	9000*	5780*	2.26	
- 11111	Ws	1540	6.65		1790	2340	3250	5110	3970*	1.07	
-2m	We	2840*	6.18		3980*	5070*	6410*	8280*	7710*	2.26	
-2111	Ws	1710	6.18		1780	2320	3230	5120	5560*	1.07	
-3m	We	3690*	5.48			4280*	5510*	7000*	8430*	2.26	
-3111	Ws	2070	5.48			2350	3270	5180	7310*	1.07	
1 m	We	3350*	4.46				3930*	5070*	5920*	2.26	
-4m	Ws	2880	4.46				3370	5070*	6680*	1.65	

WE : OVER END WS : OVER SIDE

BLADE : UP ARM : LONG ARM ARM LENGTH = 2.85 (m) MAXIMUM REACH = 7.47 (m) SHOE: 500G TIPPING CAPACITY (MARK:) = 75.0 (%) BUCKET: 0.37BUCKET HYDRAUI IC CAPACITY (MARK:*) = 87.0 (%)

BUC	KEI	: 0.37BC	JCKET			HYDR	AULIC (JAPACII	Y (MAF	KK:^) = 8	7.0 (%)
	cket				Rad	ius of Lo	ad				
	ight	Max.	Radius	7m	6m	5m	4m	3m	2m	Min.R	adius
6m	We	1660*	5.95			2660*	2910*			2910*	3.96
	Ws	1660*	5.95			2660*	2910*			2910*	3.96
_	We	1610*	6.59		2480*	3010*	3070*			3040*	3.74
5m	Ws	1610*	6.59		2180	3010	3070*			3040*	3.74
	We	1620*	7.04	1700*	2870	3460*	3540*			3360*	3.1
4m	Ws	1590	7.04	1600	2140	2920	3540*			3360*	3.1
	We	1660*	7.32	2140	2800	3800	4830*	5700*	7230*	8960*	1.56
3m	Ws	1440	7.32	1570	2060	2800	4030	5700*	7230*	8960*	1.56
	We	1750*	7.45	2090	2710	3640	5270	7610*		8000*	2.12
2m	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
	We	1860	7.31	2000	2540	3370	4800	7940	3790*	2730*	1.53
0	Ws	1330	7.31	1430	1820	2400	3350	5200	3790*	2730*	1.53
	We	1960	7.03	1970	2490	3290	4680	7790	5010*	3930*	1.39
-1m	Ws	1400	7.03	1400	1770	2330	3240	5080	5010*	3620*	1.07
0	We	2150	6.58		2460	3250	4630	7750	6540*	5400*	1.39
-2m	Ws	1530	6.58		1750	2290	3200	5050	6540*	5030*	1.07
0	We	2530	5.93			3250	4640	7690*	8470*	7080*	1.39
-3m	Ws	1800	5.93			2300	3210	5090	8470*	6590*	1.07
	We	3320	5				4720	6080*	7920*	9130*	1.39
-4m	Ws	2360	5				3270	5190	7920*	8430*	1.07
	We	2950*	3.57					3510*		3760*	2.72
-5m	Ws	2950*	3.57					3510*		3760*	2.72

WE: OVER END WS: OVER SIDE

· Reclining seat

· Cup holder

· Room lamp

· AM/FM Radio

· Ashtray

· Hat hook

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

WE: OVER END WS: OVER SIDE

· Quick change 4way (Kit)

■Optional equipment

■Standard equipment

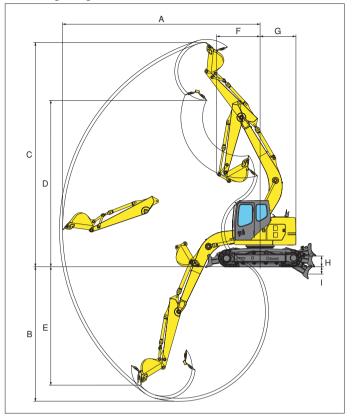
- Hydraulics system
- Cab-top headlight · High-performance return filter
- ●Safety equipment · Rear-view mirror
- Gate lock lever
- · Emergency escape hammer
- · Seat belt · Large-size front right side
- Travel alarm
- Theft prevention dog-chain · One-touch idle · Changeable 2-speed-travel · Rotational ABS · Boom/arm holding valve Engine emergency stop
 - ■Cab/interior equipment

 - · KAB seat
 - · Large-size rounded cab · Fluid mount Air conditioner
- · Automatic lock for front facing Others
- window
- Engine that complies with · Automatic point wiper tear-3 exhaust emissions connecter regulations
- EMS (Easy Maintenance · Intermittent wiper with washer

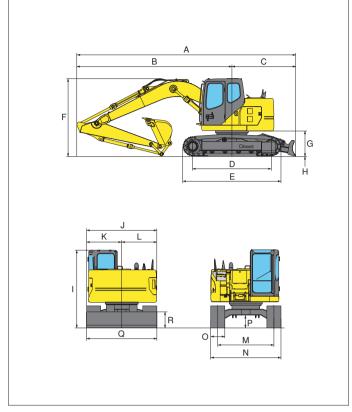
Tool kit

- Long life hydraulic fluid Front-face protective net for
- radiator · Aluminum radiator Aluminum oil cooler
- · Grease gun
- · Fuel filter (With water separator)
- · Fuel pre-filter (With water separator)
- Double-element air cleaner

■Working Range



■Dimensions



■Working Range

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

■Principal specifications

		SH135X-3B
		STD Specifications
	Arm length	2.39m
	Bucket capacity (ISO heaped)	0.50m³
	Std. Operating weight	14200kg
	Make & model	ISUZU AJ-4JJ1X
Engine	Rated output	70.9kw/2000min ⁻¹
	Displacement	2999ml(cc)
	Main pump	2 variable displacement axial piston pumps with regulating syster
Hydraulic	Max pressure	34.3Mpa
•	Travel motor	Variable displacement axial piston motor
System	Parking brake type	Mechanical disc brake
	Swing motor	Fixed displacement axial piston motor
	Travel speed	5.0/3.1km/h
	Traction force	114kN
	Grade ability	70%<35°>
Performance	Ground pressure	46kPa
	Swing speed	10.0min ⁻¹
	Bucket	90kN
	Arm	64kN
Others	Fuel tank	165liter
Otners	Hydraulic fluid tank	130liter

■Weight & Ground pressur	e	Standard bucket (Suitable for materials with density up to 1800kg/m² or less) Suitable for materials with density up to 1600kg/m² or less Suitable for materials with density up to 1200kg/m³ or less				
Model		SH135X-3B				
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure		
	500mm	2490mm	14200kg	46kPa		
Triple grouser shoe	600mm	2590mm	14300kg	39kPa		
	700mm	2690mm	14600kg	34kPa		

■Dimensions

		SH135X-3B				
Arı	m length	2.39m	2.85m			
Α	Overall length	7755mm	7725mm			
В	Length from center of machine (to arm top)	5490mm	5460mm			
С	Length from center of machine (to blade top)	2265	5mm			
D	Center to center of wheels	2785	5mm			
Е	Overall track length	3510)mm			
F	Overall height	2750mm	2600mm			
G	Clearance height under upper structure	880mm				
Н	Shoe lug height	20mm				
1	Cab height	2750mm				
J	Upper structure overall width	2415mm				
K	Width from center of machine (left side)	1170mm				
L	Width from center of machine (right side)	1245mm				
М	Track gauge	1990mm				
Ν	Overall track width with 500mm	2490)mm			
	600mm	2590mm				
	700mm	2690)mm			
0	Std. Shoe width	500mm				
Р	Minimum ground clearance	435mm				
Q	Width of blade	2490mm				
R	Height of blade	570	mm			

Ducket	Bucket								
Mo	odel	SH135X-3B							
Bucket capacity (ISO	0.24m ³	0.30m ³	0.37m ³	0.45m ³	0.50m ³				
Bucket capacity (CE	0.21m ³	0.27m ³	0.31m ³	0.38m ³	0.43m ³				
Bucket type	STD	STD	STD	STD	STD				
No. of tooth	3	4	4	4	5				
Width	With side cutter	582mm	692mm	772mm	907mm	972mm			
	Without side cutter	508mm	618mm	698mm	833mm	898mm			
Weight	281kg	317kg	334kg	363kg	390kg				
	2.39m arm	0	0	0	0	•			
	2.85m arm	0	0	•	0	Δ			

©:Suitable for materials with density up to 2000kg/m³ or less