

SAMSUNG

SE130W-3

WHEELED EXCAVATOR SERIES-3

Flywheel Horsepower; 100 ps 73.6 kW

Bucket Capacity; SAE 0.53 m³ 0.69 cu.yd

CECE 0.45 m³ 0.59 cu.yd

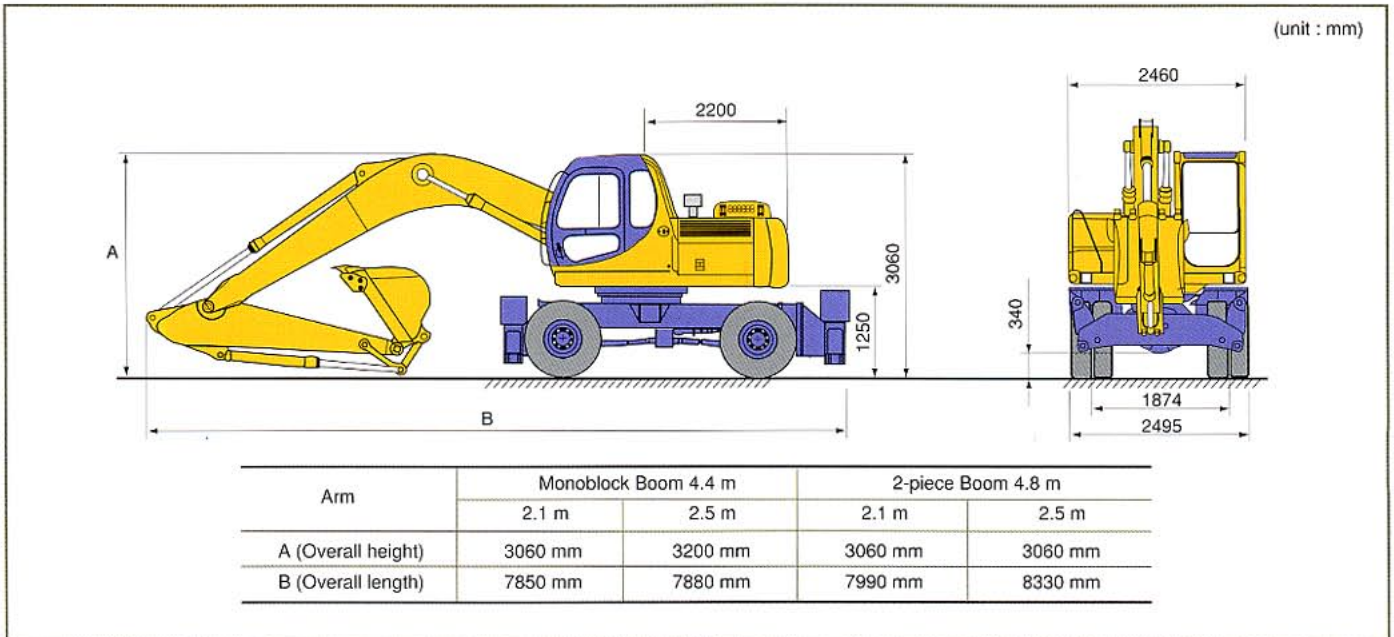
Operating Weight; 13220 kg ~ 14900 kg

29140 lb ~ 32850 lb

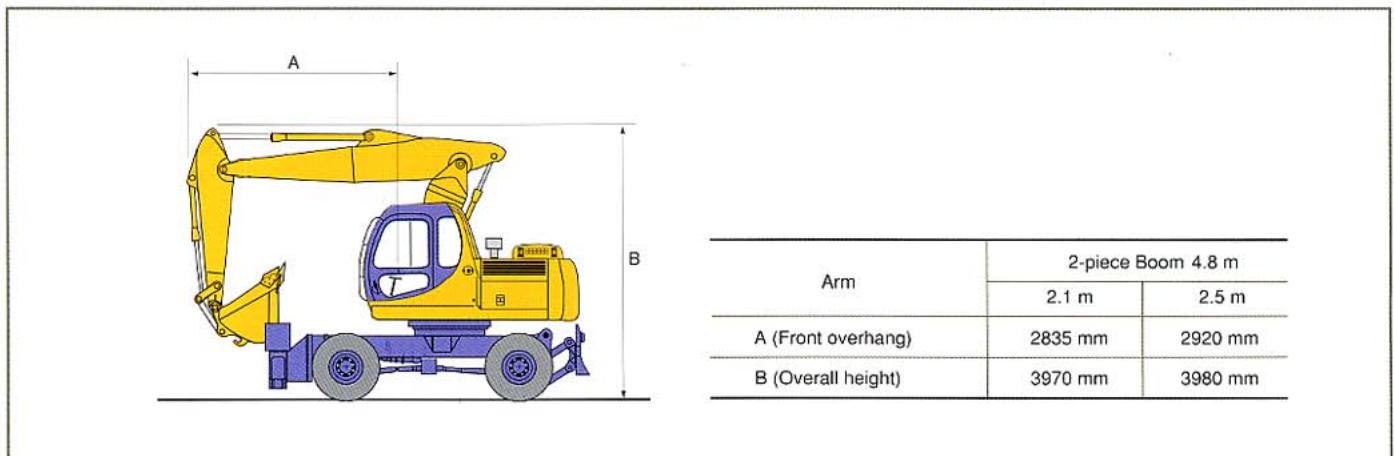


DIMENSION

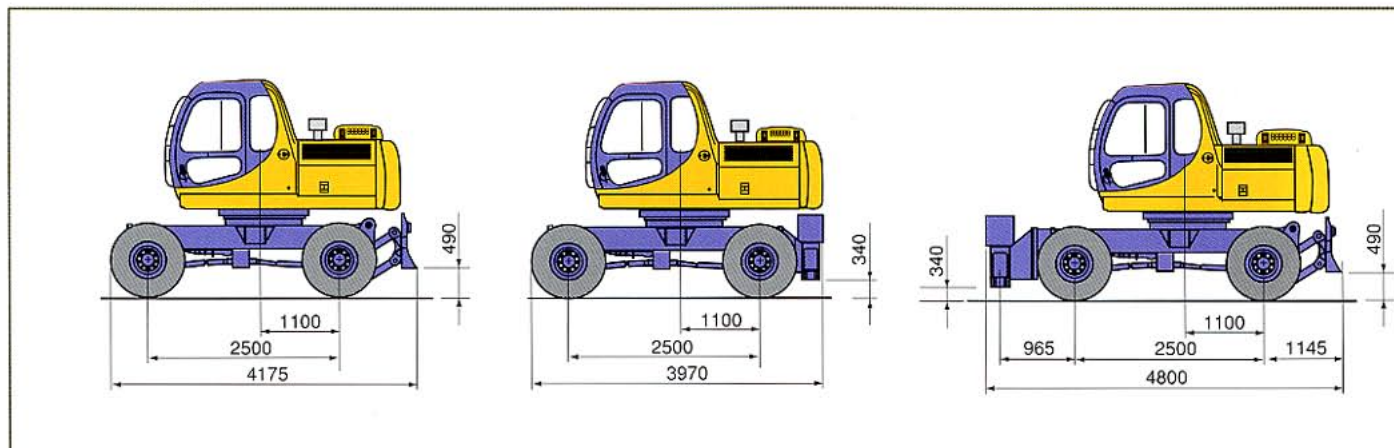
● Transport



● Travel (2-Piece Boom)

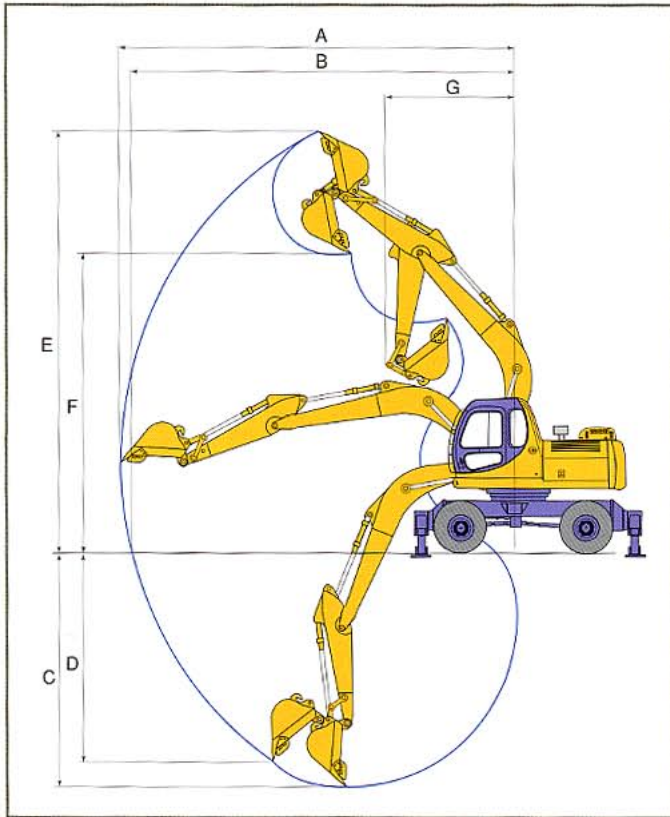


● Undercarriage

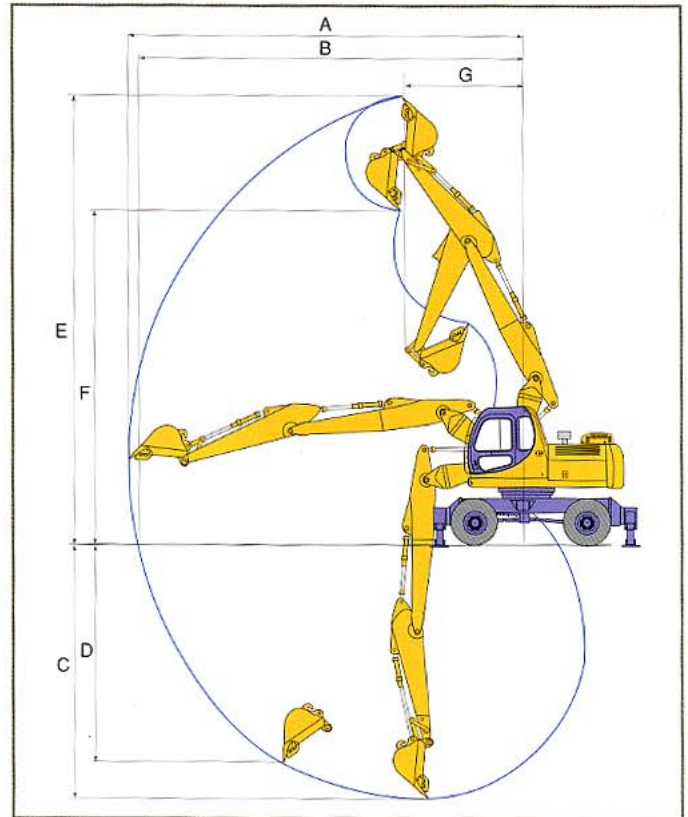


WORKING RANGES

● With Monoblock Boom



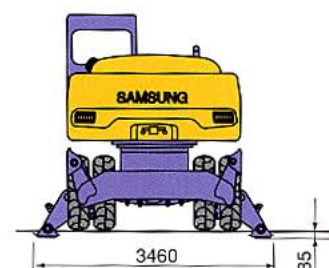
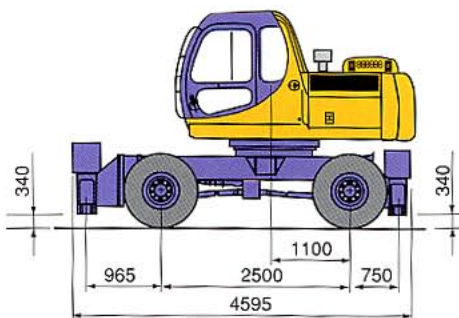
● With 2-piece Boom



Arm	Standard (2.1 m)	Long (2.5 m)
Max. digging reach(A)	7770 mm	8140 mm
Max. digging reach on ground (B)	7550 mm	7940 mm
Max. digging depth(C)	4700 mm	5100 mm
Max. vertical digging depth (D)	4190 mm	4580 mm
Max. cutting height (E)	8350 mm	8600 mm
Max. dumping height (F)	5900 mm	6150 mm
Min. front swing radius (G)	2510 mm	2580 mm
Max. digging force	Bucket	8030 kg
	Arm	6840 kg

Arm	Standard (2.1 m)	Long (2.5 m)
Max. digging reach(A)	8270 mm	8660 mm
Max. digging reach on ground (B)	8080 mm	8470 mm
Max. digging depth(C)	5190 mm	5590 mm
Max. vertical digging depth (D)	4410 mm	4820 mm
Max. cutting height (E)	9490 mm	9810 mm
Max. dumping height (F)	6970 mm	7310 mm
Min. front swing radius (G)	2400 mm	2580 mm
Max. digging force	Bucket	8030 kg
	Arm	6840 kg

(unit : mm)



LIFTING CAPACITIES

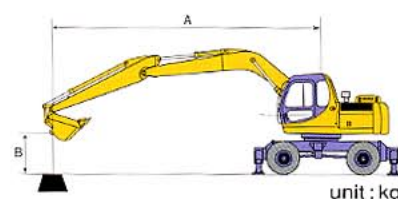
● Bucket & Arm Combination

Bucket		Narrow Bucket	Standard Bucket	Reinforced Bucket	Wide Bucket
Bucket capacity (SAE/CECE)		0.40/0.35 m ³	0.53/0.45 m ³	0.53/0.45 m ³	0.65/0.55 m ³
Bucket width (with/without side cutter)		850/740 mm	1035/925 mm	1035/925 mm	1205/1095 mm
No. of teeth		4 (★)	5 (★)	5 (★)	5 (★)
Application		Trenching	General purpose	Extreme service	Loading service
Arm options	Arm 2.1 m	○	○	○	□
	Long arm 2.5 m	○	□	□	×
Remark			Standard		

★ : Horizontal and vertical pin type are available
 ○ : Applicable for general purpose up to 2000 kg/m³

□ : Applicable for light duty up to 1600kg/m³
 × : Not usable

● Monoblock Boom

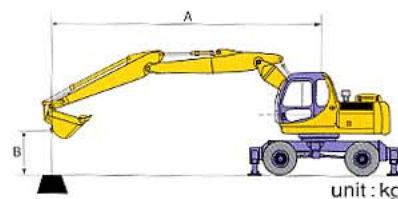


Bucket 0.53 m³, outriggers on the ground

	A		0 m	1.5 m	3 m	4.5 m	6 m	7.5 m	9 m	Max. Reach	
	B	Front Side								kg	mm
Boom 4.4 m + Arm 2.1 m	6 m	Front Side				*2370 *2370				*2570 *2570	5050 mm
	4.5 m	Front Side				*2610 *2610	*2750 *2750			*2680 *2680	6029 mm
	3 m	Front Side			*4420 *4420	*3360 *3360	*3010 *3010			*2800 *2800	6518 mm
	1.5 m	Front Side			*3240 *3240	*4330 *4330	*3420 *3420			*3150 3040	6629 mm
	0 m	Front Side			*6180 *6180	*5130 *5130	*3780 3500			*3570 3170	6383 mm
	1.5 m	Front Side		*4550 *4550	*8510 *8510	*5420 *5420				*4060 3740	5732 mm
	3 m	Front Side		*3180 *3180	*7640 *7640					*4930 *4930	4496 mm

unit : kg

● 2-piece Boom



Bucket 0.53 m³, outriggers on the ground

	A		0 m	1.5 m	3 m	4.5 m	6 m	7.5 m	9 m	Max. Reach	
	B	Front Side								kg	mm
Boom 4.8 m + Arm 2.1 m	7.5 m	Front Side								*3130 *3130	4179 mm
	6 m	Front Side				*2830 *2830	*3060 *3060			*2840 *2840	5752 mm
	4.5 m	Front Side			*3700 *3700	*3280 *3280	*3420 *3420			*2760 *2760	6624 mm
	3 m	Front Side			*3750 *3750	*4100 *4100	*3830 3580			*2850 2800	7071 mm
	1.5 m	Front Side				*5100 *5100	*4160 3480			*3120 2670	7173 mm
	0 m	Front Side			*3260 *3260	*5760 5510	*4180 3440			*3560 2760	6947 mm
	1.5 m	Front Side			*6400 *6400	*5870 5430				*3860 3150	6356 mm
	3 m	Front Side		*15190 *15190	*7790 *7790	*5290 *5290				*4310 4240	5275 mm

unit : kg

- Notes : 1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

SPECIFICATIONS

OPERATING WEIGHT

Arm length 2.1 m
 Bucket 0.53 m³

Type	Monoblock Boom	2-piece Boom
Rear blade	13220 kg	13600 kg
Rear outriggers	13320 kg	13700 kg
Front outriggers rear blade	14320 kg	14700 kg
Four outriggers	14520 kg	14900 kg

ENGINE

Model Cummins B3.9-C
 Flywheel horsepower 100ps (99hp/73.6kW) at 2100 rpm
 Max. torque 44 kg·m at 1600 rpm
 No. of cylinders 4
 Displacement 3920 cc
 Bore and stroke 102 mm × 120 mm

HYDRAULIC SYSTEM

The advanced ACS hydraulic system ensures high efficiency and minimizes work time at any job site.

No. of modes 4 working modes
 3 travel modes

Pumps

Main pump:

Type 2 × Variable displacement axial piston pumps
 Maximum flow 2 × 120 l / min
 Pilot pump Gear pump
 Steering pump Gear pump
 Brake pump Gear pump

Hydraulic motors

Travel Variable displacement axial piston motor
 Swing Fixed displacement piston motor with mechanical brake

Relief valve setting

Implement 320/350kg/cm²
 Travel circuit 350kg/cm²
 Steering circuit 150kg/cm²
 Swing circuit 270kg/cm²
 Pilot circuit 40kg/cm²

Hydraulic cylinders: Monoblock boom

Boom 2
 bore × stroke ø 105 × 980 mm
 Arm 1
 bore × stroke ø 120 × 1045 mm
 Bucket 1
 bore × stroke ø 100 × 865 mm

Hydraulic cylinders: 2-piece boom

1st boom 2
 bore × stroke ø 110 × 980 mm
 2nd boom 1
 bore × stroke ø 160 × 765 mm
 Arm 1
 bore × stroke ø 120 × 1045 mm
 Bucket 1
 bore × stroke ø 100 × 865 mm

SWING

Swing brake Automatic mechanical brake with hydraulic control
 Swing reduction 2 stage planetary reduction gear
 Swing speed 12.5 rpm
 Swing circle lubrication Grease bath

TRANSMISSION

Hydrostatic transmission with variable displacement axial piston motor.

Travel speed Forward, reverse
 1st 7.5 km/h
 STVZO : 5.2 km/h
 2nd 28 km/h
 STVZO : 20 km/h
 Gradeability 33° (65%)

BRAKE SYSTEM

Service brake Dual circuit hydraulic system with multi wet discs on four wheels.
 Parking brake Multi discs with negative actuation, by hydraulic control.

STEERING SYSTEM

Type Hydraulically actuated, open center none reaction type steering system
 Steering cylinder One, double-effect
 Min. turning radius, center of outer wheel 6500 mm

AXLES

Type Full floating with planetary gear
 Oscillating angle ± 8°
 Max. tractive effort 8600 kg

CAPACITIES (Refilling)

Engine 16 l
 Transmission 3.8 l
 Swing drive 3.8 l
 Swing grease bath 10 l
 Axle Front : 12.8 l
 Rear : 15.8 l
 Coolant 21.4 l
 Hydraulic tank 130 l
 Fuel tank 260 l

ELECTRICAL SYSTEM

Voltage 24 V
 Batteries in series 2
 rating (total) 150 Ah
 Alternator 50 Ah
 Starter 3.7 kW

TIRES

Double 9.00 × 20-14PR
 Single 18.00 × 19.5

STANDARD EQUIPMENT

- Adjustable monitor
- Air cleaner
- Alternator (50A)
- Automatic deaeration system
- Automatic idling system
- Auxiliary hydraulic valve
- Batteries
- Battery sealing cover
- Boom / arm holding valve
- Bucket cylinder cushion
- Cab, all-weather sound suppressed, Includes:
 - Ashtray
 - Cigar lighter
 - Door locks
- Floormat
- Horn
- Hot & cool box
- Pull-up type front window
- Removable lower windshield
- Safety glasses
- Seat
- Seat belt
- Windshield wiper with intermittent feature
- Dampening cab mountings
- Dozer blade, rear mounted
- Engine restart prevention circuit
- Integrated mode selection system
- Joysticks, pilot-operated
- Low emission engine
- Light :
 - Frame mounted, two
 - Boom mounted, two
- Master switch
- Mirrors
- One touch power boost
- Safe engine start/stop function
- Self-diagnostic system
- Starting motor (24 volt, 3.7 kW)
- Tiltable steering column
- Tire : 9.00 × 20-14PR
- Tool box, locking
- Two piece boom
- Water separator, fuel line

OPTIONAL EQUIPMENT

- Air conditioner
- Air heater
- Anti-drop valve : boom, arm
- Automatic cruise system
- Block heater : 120V, 240V
- Cab guard
- Falling object guard (FOG)
- Fuel filler pump
- Fuel warmer
- Heater
- Monoblock boom
- Overload warning device
- Precleaner
- Purifier
- Spare parts
- Stereo cassette radio (AM/FM)
- Tire : 18.00 × 19.5
- Tool kit
- Undercarriage options (Stabilizer & dozer blade)
- Vandalism kit

*Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice.
The illustrations do not necessarily show the standard version of the machine.*

VOLVO

**Volvo Construction
Equipment Group**

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