

# SE130W-3

SERIES-3 WHEELED EXCAVATOR

Flywheel Horsepower; 99 hp 73.6 kW

Bucket Capacity; SAE 0.69 cu.yd 0.53 m<sup>3</sup>

CECE 0.59 cu.yd 0.45 m<sup>3</sup>

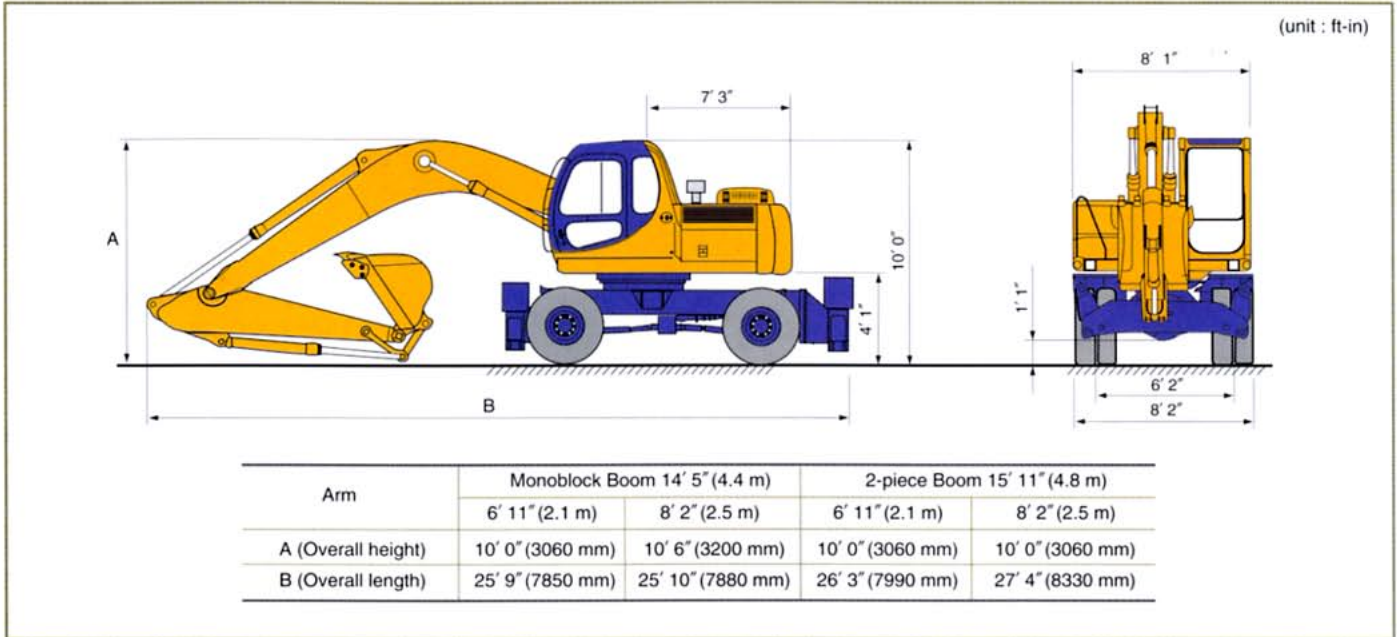
Operating Weight; 29140 lb ~ 32850 lb

13220 kg ~ 14900 kg

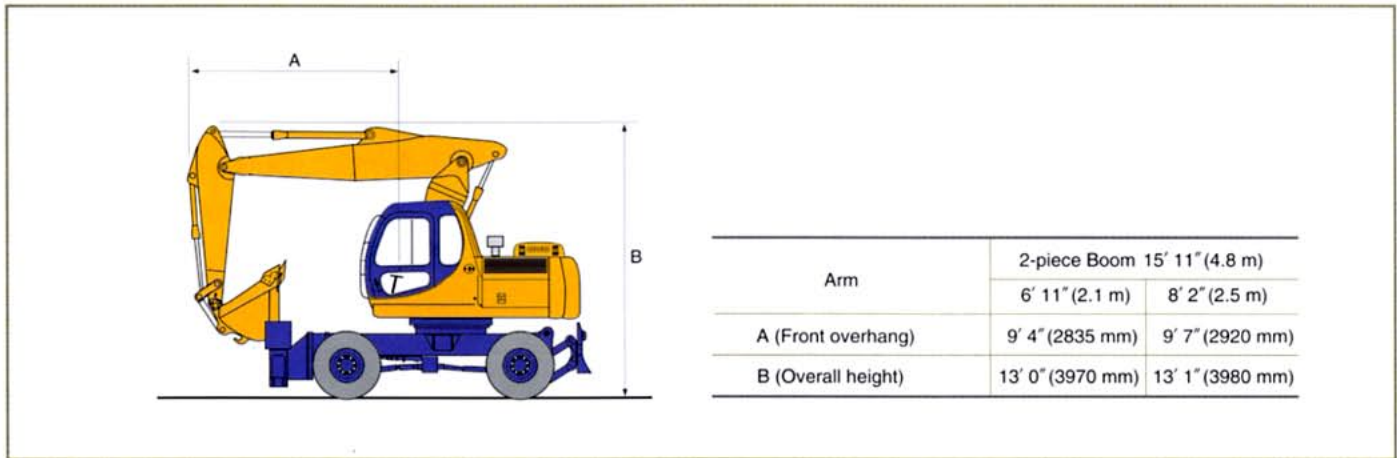


# DIMENSIONS

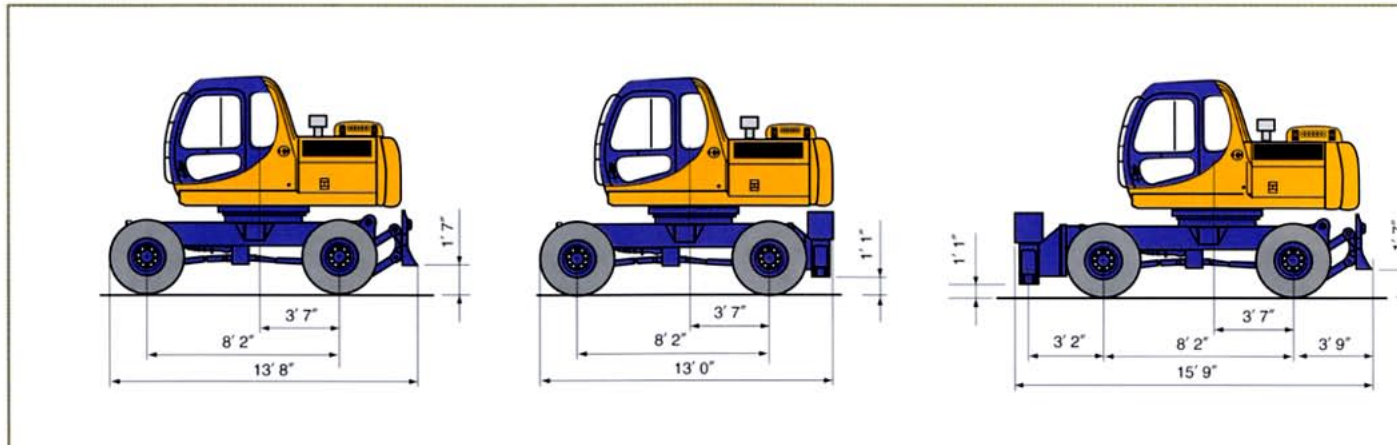
## ● Transport



## ● Travel (2-Piece Boom)

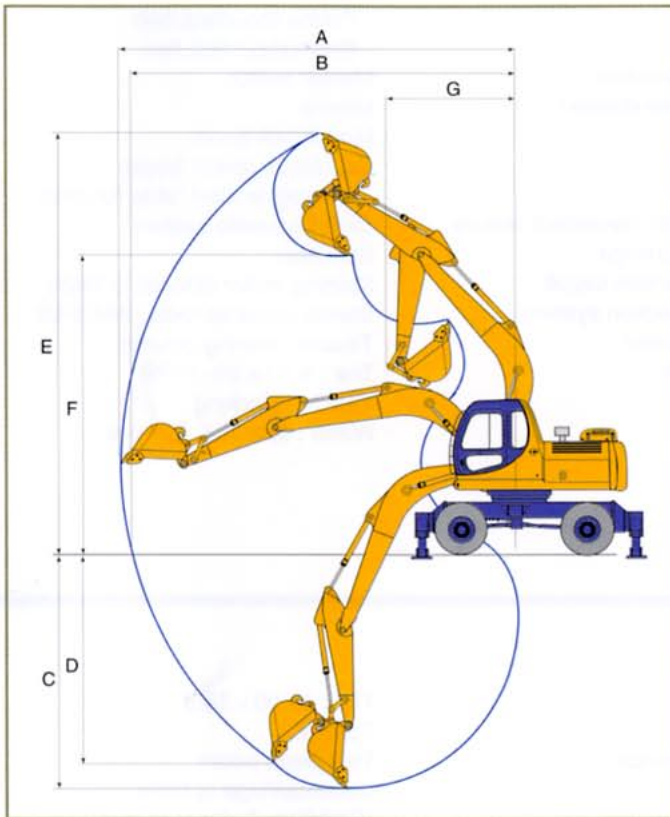


## ● Undercarriage

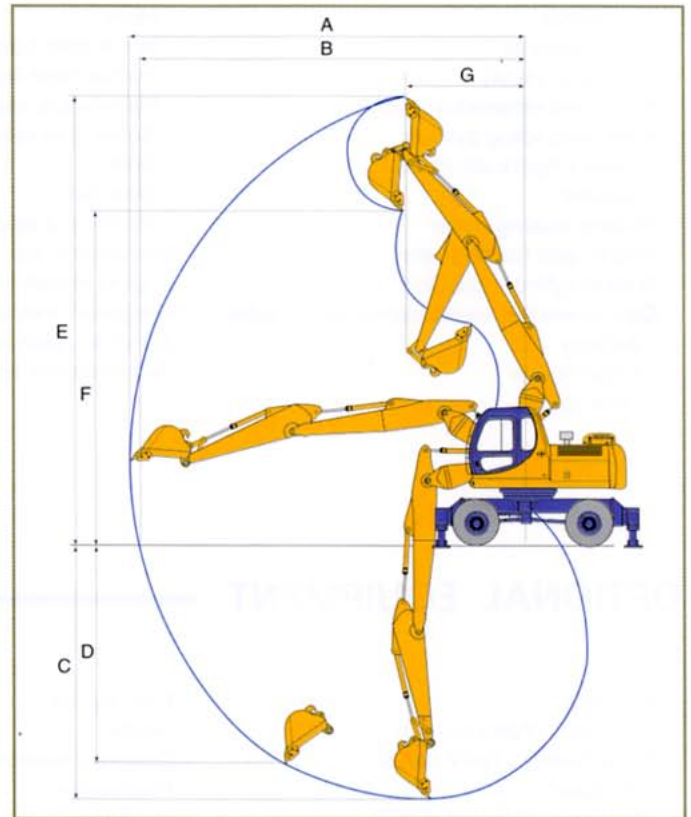


# WORKING RANGES

## ● With Monoblock Boom



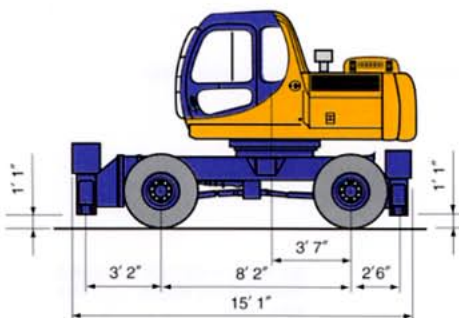
## ● With 2-piece Boom



Arm	Standard 6' 11" (2.1 m)	Long 8' 2" (2.5 m)
Max. digging reach(A)	25' 6" (7770 mm)	26' 8" (8140 mm)
Max. digging reach on ground (B)	24' 9" (7550 mm)	26' 1" (7940 mm)
Max. digging depth(C)	15' 5" (4700 mm)	16' 9" (5100 mm)
Max. vertical digging depth (D)	13' 9" (4190 mm)	15' 0" (4580 mm)
Max. cutting height (E)	27' 5" (8350 mm)	28' 3" (8600 mm)
Max. dumping height (F)	19' 4" (5900 mm)	20' 2" (6150 mm)
Min. front swing radius (G)	8' 3" (2510 mm)	8' 6" (2580 mm)
Max. digging force	Bucket	17700 lb (8030 kg)
	Arm	15080 lb (6840 kg)

Arm	Standard 6' 11" (2.1 m)	Long 8' 2" (2.5 m)
Max. digging reach(A)	27' 2" (8270 mm)	28' 5" (8660 mm)
Max. digging reach on ground (B)	26' 6" (8080 mm)	27' 9" (8470 mm)
Max. digging depth(C)	17' 0" (5190 mm)	18' 4" (5590 mm)
Max. vertical digging depth (D)	14' 6" (4410 mm)	15' 10" (4820 mm)
Max. cutting height (E)	31' 2" (9490 mm)	32' 2" (9810 mm)
Max. dumping height (F)	22' 10" (6970 mm)	24' 0" (7310 mm)
Min. front swing radius (G)	7' 10" (2400 mm)	8' 6" (2580 mm)
Max. digging force	Bucket	17700 lb (8030 kg)
	Arm	15080 lb (6840 kg)

(unit : ft-in)



## LIFTING CAPACITIES

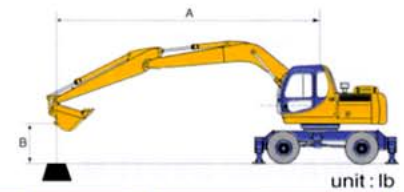
### ● Bucket & Arm Combination

Bucket	Narrow Bucket	Standard Bucket	Reinforced Bucket	Wide Bucket
Bucket capacity (SAE/CECE)	0.52/0.46 yd <sup>3</sup> (0.40/0.35 m <sup>3</sup> )	0.69/0.59 yd <sup>3</sup> (0.53/0.45 m <sup>3</sup> )	0.69/0.59 yd <sup>3</sup> (0.53/0.45 m <sup>3</sup> )	0.85/0.72 yd <sup>3</sup> (0.65/0.55 m <sup>3</sup> )
Bucket width (with/without side cutter)	33.5"/29.1" (850/740 mm)	40.7"/36.4" (1035/925 mm)	40.7"/36.4" (1035/925 mm)	47.4"/43.1" (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/m<sup>3</sup>

□ : Applicable for light duty up to 1600kg/m<sup>3</sup>  
 × : Not usable

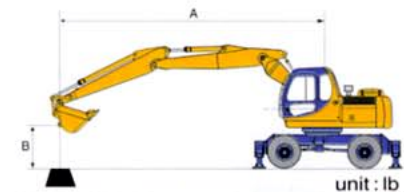
### ● Monoblock Boom



Bucket 0.69 yd<sup>3</sup>, outriggers on the ground

	A		0 ft	5 ft	10 ft	15 ft	20 ft	25 ft	Max. Reach	
	B									
Boom 14ft 5in + Arm 6ft 11in	20 ft	Front Side				* 5310 * 5310			* 5650 * 5650	16.29 ft
	15 ft	Front Side				* 5720 * 5720			* 5910 * 5910	19.67 ft
	10 ft	Front Side			* 9400 * 9400	* 7280 * 7280	* 6580 * 6580		* 6180 * 6180	21.35 ft
	5 ft	Front Side			* 7210 * 7210	* 9350 * 9350	* 7470 * 7470		* 6930 6760	21.75 ft
	0 m	Front Side			* 14490 * 14490	* 11080 * 11080	* 8200 7580		* 7870 7050	20.94 ft
	5 ft	Front Side		* 10050 * 10050	* 18480 * 18480	* 11700 * 11700			* 8960 8310	18.76 ft
	10 ft	Front Side			* 16480 * 16480				* 10930 * 10930	14.57 ft

### ● 2-piece Boom



Bucket 0.69 yd<sup>3</sup>, outriggers on the ground

	A		0 ft	5 ft	10 ft	15 ft	20 ft	25 ft	Max. Reach	
	B									
Boom 15ft 11in + Arm 6ft 11in	25 ft	Front Side							* 6960 * 6960	13.12 ft
	20 ft	Front Side				* 6260 * 6260			* 6310 * 6310	18.63 ft
	15 ft	Front Side			* 7960 * 7960	* 7130 * 7130	* 6720 * 6720		* 6080 * 6080	21.63 ft
	10 ft	Front Side			* 8550 * 8550	* 8840 * 8840	* 7440 * 7440		* 6270 6240	23.17 ft
	5 ft	Front Side				* 10980 * 10980	* 8310 7730		* 6880 5940	23.54 ft
	0 m	Front Side			* 7150 * 7150	* 12450 11890	* 9000 7530		* 7840 6130	22.79 ft
	5 ft	Front Side			* 14750 * 14750	* 12690 11720	* 9010 7440		* 8510 7010	20.81 ft
	10 ft	Front Side			* 16870 * 16870	* 11360 * 11360			* 9520 * 9520	17.16 ft

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 ..... 6' 11" (2.1 m)  
 Bucket ..... 0.69 yd<sup>3</sup> (0.53 m<sup>3</sup>)

Type	Monoblock Boom	2-piece Boom
Rear blade	29140 lb (13220 kg)	29980 lb (13600 kg)
Rear outriggers	29370 lb (13320 kg)	30200 lb (13700 kg)
Front outriggers rear blade	31570 lb (14320 kg)	32410 lb (14700 kg)
Four outriggers	32010 lb (14520 kg)	32850 lb (14900 kg)

### ENGINE

Model ..... Cummins B3.9-C  
 Flywheel horsepower ..... 99hp (100ps/73.6kW) at 2100 rpm  
 Max. torque ..... 318.2 lb-ft (44 kg·m) at 1600 rpm  
 No. of cylinders ..... 4  
 Displacement ..... 239 in<sup>3</sup> (3920 cc)  
 Bore and stroke ..... 4.0" × 4.7" (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 × 31.7 gpm (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 ..... 4550/4980 psi (320 /350kg /cm<sup>2</sup>)

Travel circuit ..... 4980 psi (350kg /cm<sup>2</sup>)

Steering circuit ..... 2130 psi (150kg /cm<sup>2</sup>)

Swing circuit ..... 3840 psi (270kg /cm<sup>2</sup>)

Pilot circuit ..... 570 psi (40kg /cm<sup>2</sup>)

#### Hydraulic cylinders: Monoblock boom

Boom ..... 2

bore × stroke ..... 4.1" × 38.6" (∅ 105 × 980 mm)

Arm ..... 1

bore × stroke ..... 4.7" × 41.1" (∅ 120 × 1045 mm)

Bucket ..... 1

bore × stroke ..... 3.9" × 34.1" (∅ 100 × 865 mm)

#### Hydraulic cylinders: 2-piece boom

1st boom ..... 2

bore × stroke ..... 4.3" × 38.6" (∅ 110 × 980 mm)

2nd boom ..... 1

bore × stroke ..... 6.3" × 30.1" (∅ 160 × 765 mm)

Arm ..... 1

bore × stroke ..... 4.7" × 41.1" (∅ 120 × 1045 mm)

Bucket ..... 1

bore × stroke ..... 3.9" × 34.1" (∅ 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 ..... 4.66 mph (7.5 km/h)

2nd ..... 17.4 mph (28 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 ..... 21' 4" (6500 mm)

### AXLES

Type ..... Full floating with planetary gear

Oscillating angle ..... ± 8°

Max. tractive effort ..... 18960 lb (8600 kg)

### CAPACITIES (Refilling)

Engine ..... 4.2 gal (16 l )

Transmission ..... 1.0 gal (3.8 l )

Swing drive ..... 1.0 gal (3.8 l )

Swing grease bath ..... 2.6 gal (10 l )

Axle ..... Front : 3.4 gal (12.8 l )

Rear : 4.2 gal (15.8 l )

Coolant ..... 5.7 gal (21.4 l )

Hydraulic tank ..... 34.3 gal (130 l )

Fuel tank ..... 68.7 gal (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

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- Adjustable monitor
- Air cleaner
- Air conditioner
- 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
- Engine restart prevention circuit
- Integrated mode selection system
- Joysticks, pilot-operated
- Low emission engine
- Light :
  - Frame mounted, two
  - Boom mounted, two
- Master switch
- Mirrors
- Monoblock boom
- One touch power boost
- Safe engine start/stop function
- Self-diagnostic system
- Stabilizer
- Starting motor (24 volt, 3.7kW)
- Stereo cassette radio (AM/FM)
- Tilttable steering column
- Tire : 9.00 × 20 -14PR
- Tool box, locking
- Water separator, fuel line

## OPTIONAL EQUIPMENT

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- Air heater
- Automatic cruise system
- Block heater : 120V, 240V
- Cab guard
- Falling object guard (FOG)
- Fuel filler pump
- Fuel warmer
- Heater
- Overload warning device
- Precleaner
- Purifier
- Spare parts
- Tire : 18.00 × 19.5
- Tool kit
- Two piece boom
- 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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