

SAMSUNG

HEAVY INDUSTRIES

SE170W-3

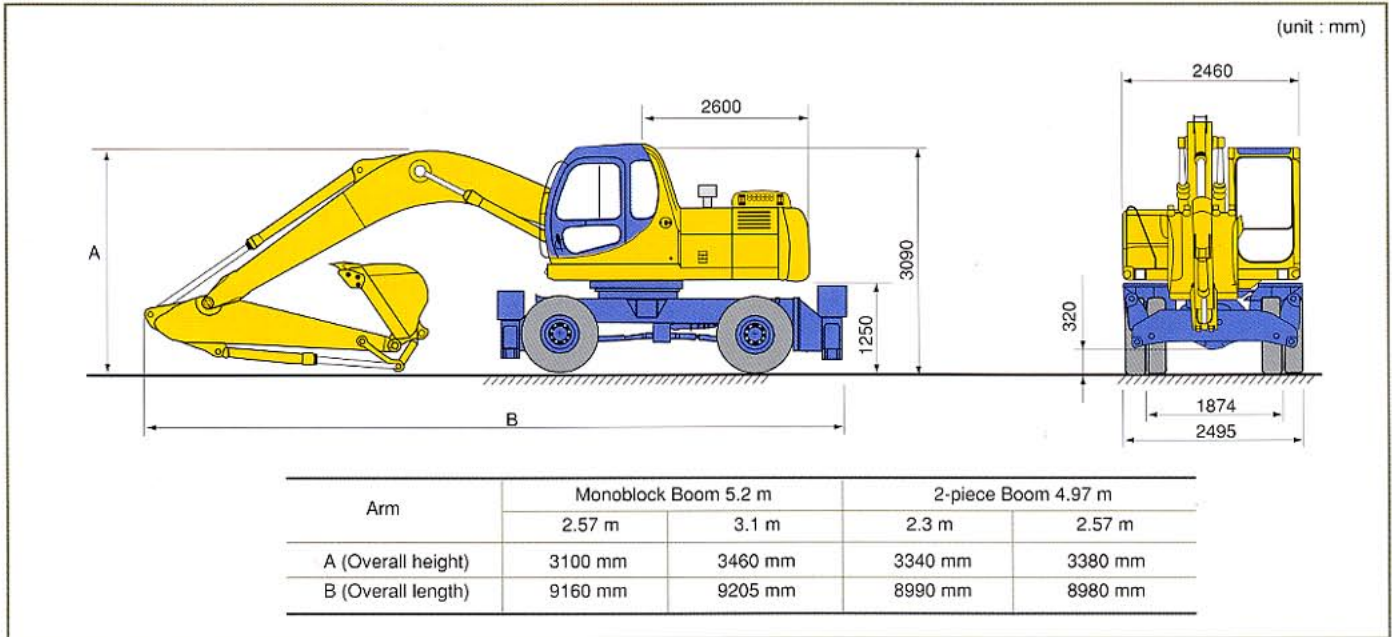
WHEELED EXCAVATOR SERIES-3

| | | |
|----------------------|--------------------------|------------|
| Flywheel Horsepower; | 145 ps | 107kW |
| Bucket Capacity; | SAE 0.76 m ³ | 0.99 cu.yd |
| | CECE 0.65 m ³ | 0.85 cu.yd |
| Operating Weight; | 16770 kg | ~ 18500 kg |
| | 36970 lb | ~ 40780 lb |

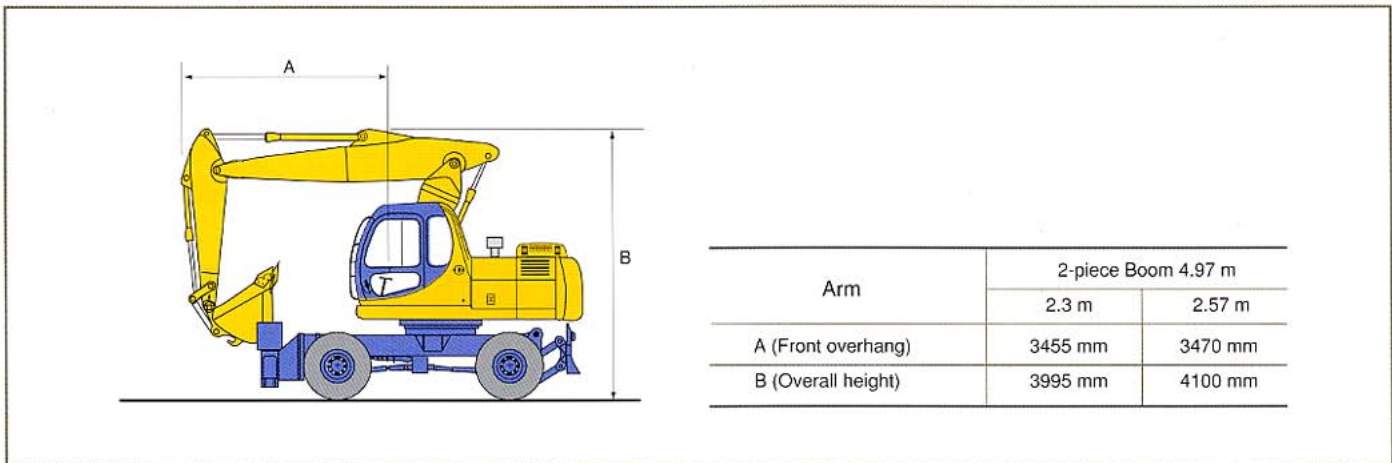


DIMENSION

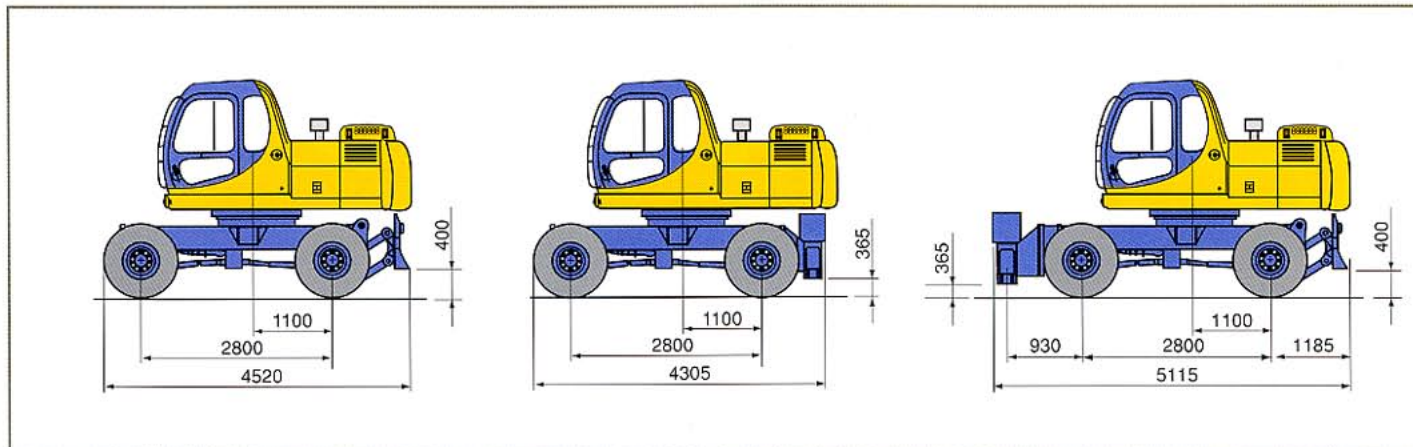
● Transport



● Travel (2-piece Boom)

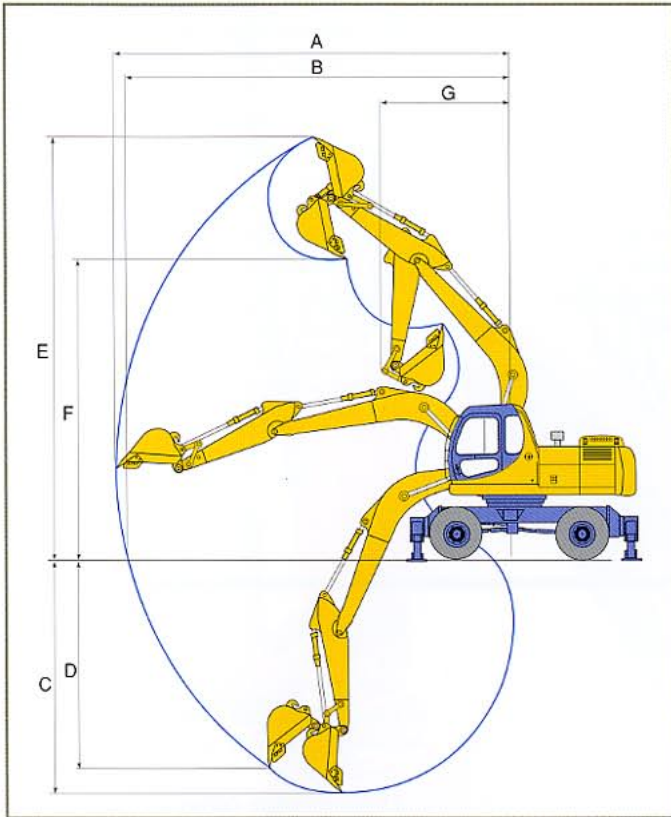


● Undercarriage

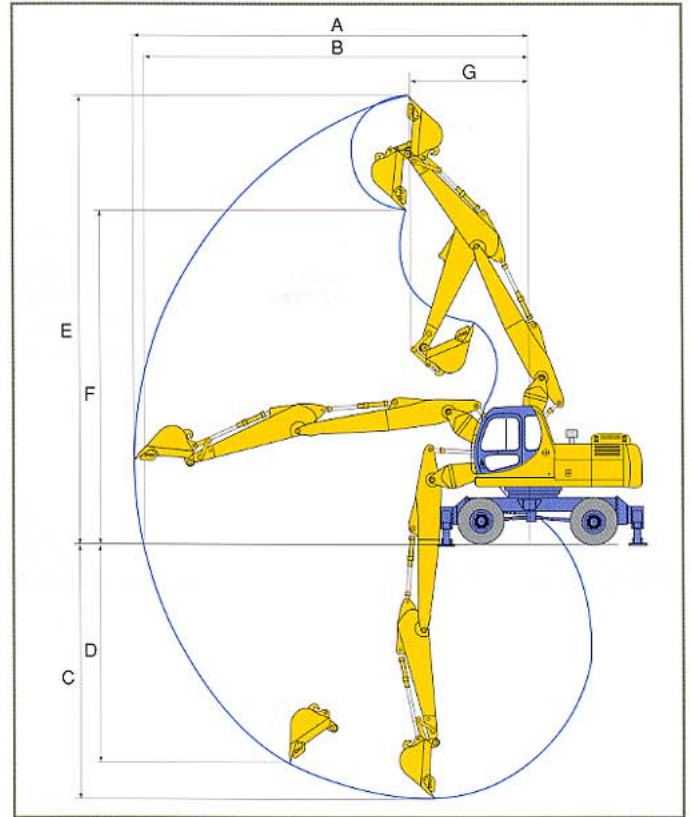


WORKING RANGES

● With Monoblock Boom



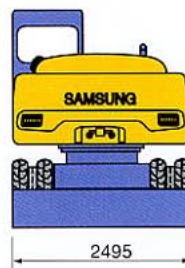
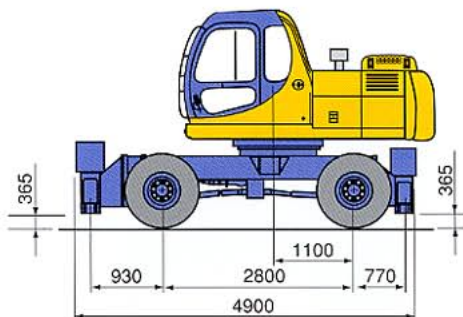
● With 2-piece Boom



| Arm | | Standard (2.57 m) | Long (3.1 m) |
|----------------------------------|--------|-------------------|--------------|
| Max. digging reach(A) | | 9170 mm | 9600 mm |
| Max. digging reach on ground (B) | | 8960 mm | 9400 mm |
| Max. digging depth(C) | | 5900 mm | 6400 mm |
| Max. vertical digging depth (D) | | 4790 mm | 5120 mm |
| Max. cutting height (E) | | 9420 mm | 9590 mm |
| Max. dumping height (F) | | 6680 mm | 6870 mm |
| Min. front swing radius (G) | | 3080 mm | 3080 mm |
| Max. digging force | Bucket | 10550 kg | 10550 kg |
| | Arm | 8010 kg | 7100 kg |

| Arm | | Standard (2.3 m) | Long (2.57 m) |
|----------------------------------|--------|------------------|---------------|
| Max. digging reach(A) | | 8760 mm | 9040 mm |
| Max. digging reach on ground (B) | | 8540 mm | 8830 mm |
| Max. digging depth(C) | | 5260 mm | 5560 mm |
| Max. vertical digging depth (D) | | 4200 mm | 4490 mm |
| Max. cutting height (E) | | 9610 mm | 9830 mm |
| Max. dumping height (F) | | 6800 mm | 7010 mm |
| Min. front swing radius (G) | | 2860 mm | 2940 mm |
| Max. digging force | Bucket | 10550 kg | 10550 kg |
| | Arm | 8670 kg | 8010 kg |

(unit : mm)



LIFTING CAPACITIES

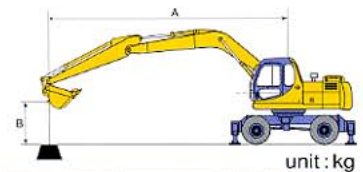
● Bucket & Arm Combination

| Bucket | | Narrow Bucket | Standard Bucket | Reinforced Bucket | Wide Bucket |
|---|----------------|---------------|-----------------|-------------------|-----------------|
| Bucket capacity (SAE/CECE) | | 0.58/0.5 m³ | 0.76/0.65 m³ | 0.76/0.65 m³ | 0.94/0.8 m³ |
| Bucket width (with/without side cutter) | | 905/795 mm | 1100/990 mm | 1100/990 mm | 1295/1185 mm |
| No. of teeth | | 4 (★) | 5 (★) | 5 (★) | 5 (★) |
| Application | | Trenching | General purpose | Extreme service | Loading service |
| Arm options | Arm 2.3/2.57 m | ○ | ○ | ○ | □ |
| | Long arm 3.1 m | ○ | □ | □ | × |
| Remark | | | Standard | | |

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

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

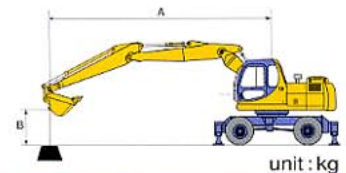
● Monoblock Boom



Bucket 0.76 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 | | | | | | | | | | |
| Boom 5.2 m + Arm 2.57 m | 7.5 m | Front Side | | | | | | | | *2700 *2700 | 5473 mm |
| | 6 m | Front Side | | | | | *2700 *2700 | | | *2640 *2640 | 6708 mm |
| | 4.5 m | Front Side | | | | *3120 *3120 | *3020 *3020 | | | *2640 *2640 | 7438 mm |
| | 3 m | Front Side | | | *6490 *6490 | *4340 *4340 | *3610 *3610 | *3320 3110 | | *2800 *2800 | 7890 mm |
| | 1.5 m | Front Side | | | *5080 *5080 | *5820 *5820 | *4310 *4310 | *3680 3020 | | *3120 2790 | 7874 mm |
| | 0 m | Front Side | | | *5180 *5180 | *6950 6680 | *4950 4230 | *3990 2960 | | *3710 2870 | 7641 mm |
| | 1.5 m | Front Side | | *6430 *6430 | *7660 *7660 | *7460 6560 | *5320 4150 | | | *4390 3210 | 7079 mm |
| | 3 m | Front Side | | *8190 *8190 | *11170 *11170 | *7350 6580 | *5220 4170 | | | *5110 4070 | 6096 mm |
| | 4.5 m | Front Side | | | *9460 *9460 | | | | | *6420 6420 | 4404 mm |

● 2-piece Boom



Bucket 0.76 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 | | | | | | | | | | |
| Boom 4.97 m + Arm 2.3 m | 7.5 m | Front Side | | | | *2500 *2500 | | | | *2800 *2800 | 4924 mm |
| | 6 m | Front Side | | | | | *2950 *2950 | | | *2830 *2830 | 6272 mm |
| | 4.5 m | Front Side | | | | *3140 *3140 | *3170 *3170 | | | *2770 *2770 | 7048 mm |
| | 3 m | Front Side | | | *5990 *5990 | *4390 *4390 | *3800 *3800 | | | *2890 *2890 | 7440 mm |
| | 1.5 m | Front Side | | | *5070 *5070 | *6030 *6030 | *4570 4540 | *3240 3140 | | *3180 3140 | 7508 mm |
| | 0 m | Front Side | | | *5140 *5140 | *7410 6930 | *5350 4400 | | | *3740 3240 | 7263 mm |
| | 1.5 m | Front Side | | | *8720 *8720 | *8250 6810 | *5940 4330 | | | *5340 3680 | 6669 mm |
| | 3 m | Front Side | | | *10460 *10460 | *8460 6840 | | | | *7100 5350 | 5246 mm |

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

Bucket 0.76 m³

| Type | Monoblock Boom | 2-piece Boom |
|-----------------------------|----------------|--------------|
| Arm length | 2.57 m | 2.3 m |
| Rear blade | 16770 kg | 17400 kg |
| Rear outriggers | 16970 kg | 17600 kg |
| Front outriggers rear blade | 17670 kg | 18300 kg |
| Four outriggers | 17870 kg | 18500 kg |

ENGINE

Model Cummins B5.9-C
 Flywheel horsepower 145ps (143hp/107kW) at 1900 rpm
 Max. torque 63 kg·m at 1500 rpm
 No. of cylinders 6
 Displacement 5880 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 × 200 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 / 350 kg / cm²
 Travel circuit 350 kg / cm²
 Steering circuit 150 kg / cm²
 Swing circuit 270 kg / cm²
 Pilot circuit 40 kg / cm²

Hydraulic cylinders: Monoblock boom

Boom 2
 bore × stroke ø 115 × 1165 mm
 Arm 1
 bore × stroke ø 120 × 1495 mm
 Bucket 1
 bore × stroke ø 115 × 990 mm

Hydraulic cylinders: 2-piece boom

1st boom 2
 bore × stroke ø 120 × 920 mm
 2nd boom 1
 bore × stroke ø 160 × 810 mm
 Arm 1
 bore × stroke ø 120 × 1495 mm
 Bucket 1
 bore × stroke ø 115 × 990 mm

SWING

Swing brake Automatic mechanical brake with hydraulic control

Swing reduction 2 stage planetary reduction gear

Swing speed 12.3 rpm

Swing circle lubrication Grease bath

TRANSMISSION

Hydrostatic transmission with variable displacement axial piston motor.

Travel speed Forward, reverse

1st 8.6 km/h

STVZO : 5.6 km/n

2nd 32 km/h

STVZO : 20 km/n

Gradeability 32° (62%)

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 7080 mm

AXLES

Type Full floating with planetary gear

Oscillating angle ± 8°

Max. tractive effort 10400 kg

CAPACITIES (Refilling)

Engine 24 l

Transmission 3.8 l

Swing drive 6.0 l

Swing grease bath 27 l

Axle Front : 13.7 l

Rear : 16.2 l

Coolant 26.5 l

Hydraulic tank 200 l

Fuel tank 295 l

ELECTRICAL SYSTEM

Voltage 24 V

Batteries in series 2

rating (total) 150 Ah

Alternator 50 Ah

Starter 7.5 kW

TIRES

Double 10 × 20 -14PR

Single 18.00 × 22.5

STANDARD EQUIPMENT

- Adjustable monitor
- Air cleaner
- Alternator (50 A)
- 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
- One touch power boost
- Safe engine start / stop function
- Self-diagnostic system
- Stabilizer
- Starting motor (24 volt, 7.5kW)
- Tiltable steering column
- Tire : 10.00 × 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 × 22.5
- Tool kit
- Undercarriage options (Stabilizer & dozer blade)
- Vandalism kit



HEAVY INDUSTRIES

<http://www.shi.samsung.co.kr>

* Materials and specifications are subject to change without notice.

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