

SE50-3

MINI EXCAVATOR SERIES-3

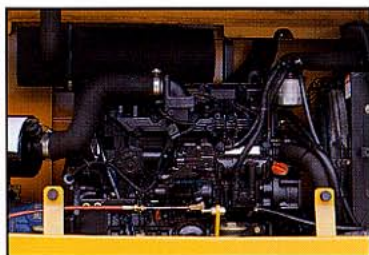


| | | |
|-----------------------|---------------------------------|-------------------|
| Flywheel Horsepower ; | 52 ps | 38 kW |
| Bucket Capacity ; SAE | 0.176 m³ | 0.23 cu.yd |
| | CECE 0.150 m³ | 0.20 cu.yd |
| Operating Weight ; | 4935 kg | 10880 lb |



SE50-3

Mini Excavator, Series 3
combining power with a light touch



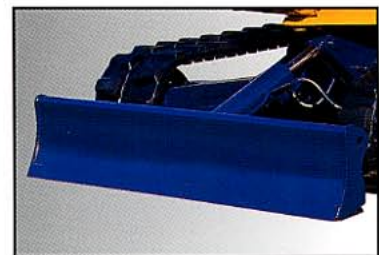
Engine

Yanmar engine is acknowledged throughout the world for its greater combustion efficiency, improved fuel economy, reliability and serviceability through the global distribution network.



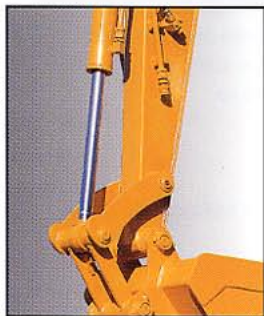
Full Opening Hood

Provides easy access for maintenance checks.



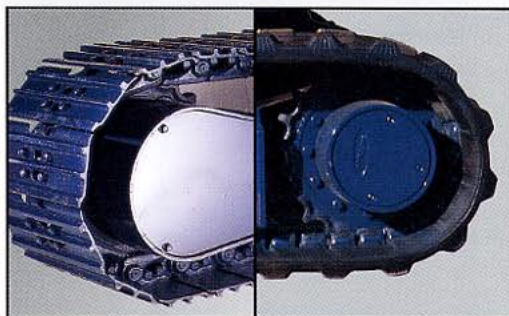
Reinforced Dozer Blade

Is useful for leveling, backfilling or clean up work. It is also helpful in improving machine stability when digging or lifting.



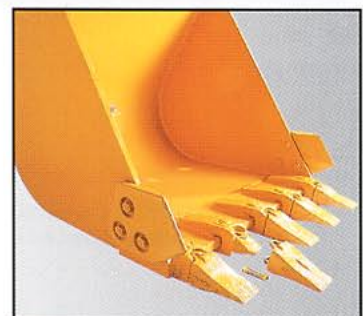
Auxiliary Hydraulic Line (option)

For breaker piped to the end of Arm.



Extended Undercarriage Durability

Combined with the use of alloy steel idlers, rollers and track guard provides greater undercarriage durability. Rubber and steel tracks are offered as an option.



Easy Replacement of Bucket Teeth

Samsung provides pin mounted bucket teeth for quick replacement.

TOR

2.5/4.1 km/h

Superior Mobility

Provides powerful drawbar pull and effective working speed.



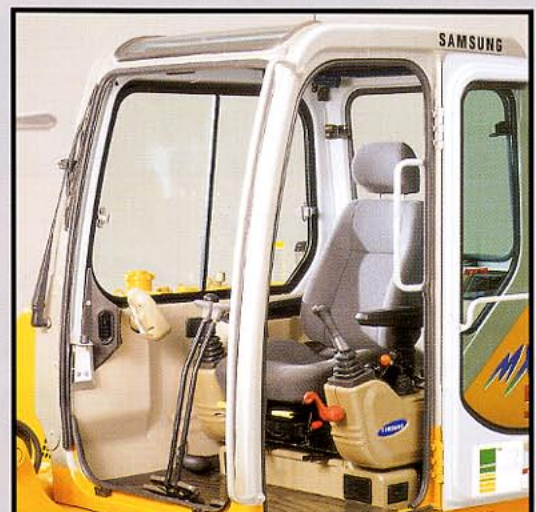
Straight Travel Feature

System automatically maintains straight travel during implement operation.



Integrated Air Conditioning / Heating System

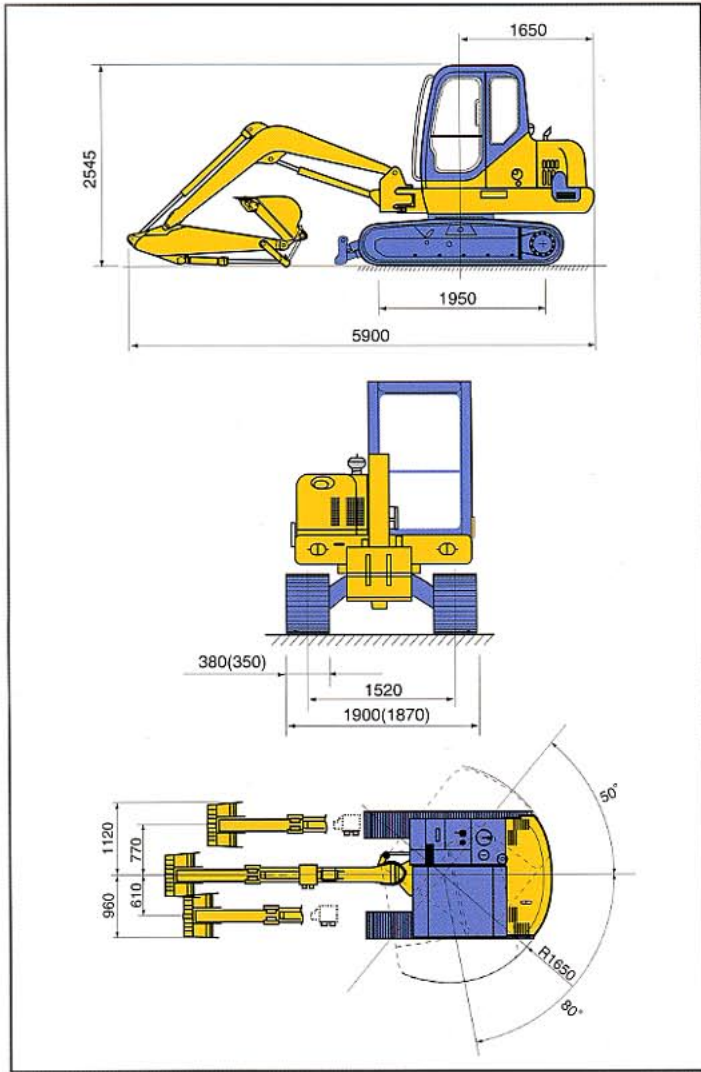
The deluxe cab features an integrated air conditioning/heating system and is pressurized to provide a dust free, climate controlled operator environment. The Roll-up front window provides excellent visibility and ventilation.



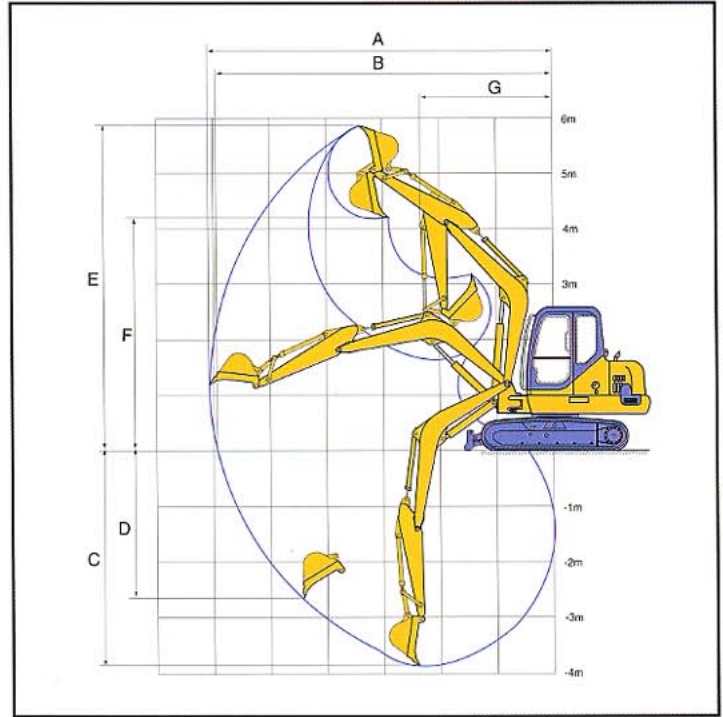
Comfortable working position for the Operator

Our ultramodern design offers highest visibility. The seat and console can be adjusted to meet the job site conditions. Cab sound level is 69dB(A) which corresponds to that of a passenger car.

DIMENSIONS



WORKING RANGES



| Arm | Standard Arm 1.54 m | |
|----------------------------------|---------------------|---------|
| Max. digging reach (A) | 6110 mm | |
| Max. digging reach on ground (B) | 5975 mm | |
| Max. digging depth (C) | 3820 mm | |
| Max. vertical digging depth (D) | 2615 mm | |
| Max. cutting height (E) | 5770 mm | |
| Max. dumping height (F) | 4090 mm | |
| Min. front swing radius (G) | 2355 mm | |
| Max. digging force | Bucket | 3670 kg |
| | Arm | 2710 kg |

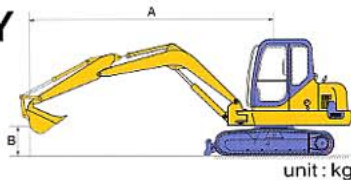
UNDERCARRIAGE

| | Triple Grouser Shoe | | Rubber Shoe | Swamp Shoe |
|------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | 350 mm | 380 mm | 400 mm | 550 mm |
| Overall Width | 1870 mm | 1900 mm | 1920 mm | 2070 mm |
| Operating Weight | 5025 kg | 5050 kg | 4935 kg | 5135 kg |
| Ground Pressure | 0.34 kg/cm ² | 0.31 kg/cm ² | 0.29 kg/cm ² | 0.21 kg/cm ² |

BUCKET

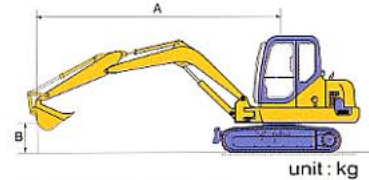
| Bucket | Standard Bucket | Narrow Bucket |
|---|------------------------------|------------------------------|
| Bucket Capacity(SAE/CECE) | 0.176 / 0.150 m ³ | 0.068 / 0.062 m ³ |
| Bucket Width (without/with side cutter) | 660 / 710 mm | 320 / 370 mm |
| No. of Teeth | 5 EA | 3 EA |

LIFTING CAPACITY



● Blade on the Ground

| B | A | unit : kg | | | | Max. Reach |
|-------|------------|--------------------|------------------|----------------|---------------|------------------|
| | | 0 m | 1.5 m | 3 m | 4.5 m | |
| 4.5 m | Front Side | | | | | * 990 940 |
| | | | | | | 3815 mm |
| 3 m | Front Side | | | | * 990 680 | * 980 580 |
| | | | | | | 4895 mm |
| 1.5 m | Front Side | | | * 1800 1260 | * 1160 640 | * 1030 480 |
| | | | | | | 5263 mm |
| 0 m | Front Side | * 16980 * 16980 | | * 2360 1130 | * 1320 600 | * 1110 490 |
| | | | | | | 5107 mm |
| 1.5 m | Front Side | | * 2370 * 2370 | * 2160 1110 | | * 1270 620 |
| | | | | | | 4358 mm |
| 3 m | Front Side | | | | | * 1540 * 1540 |
| | | | | | | 2290 mm |



● Blade off the Ground

| B | A | unit : kg | | | | Max. Reach |
|-------|------------|--------------------|------------------|----------------|------------|------------------|
| | | 0 m | 1.5 m | 3 m | 4.5 m | |
| 4.5 m | Front Side | | | | | * 990 940 |
| | | | | | | 3815 mm |
| 3 m | Front Side | | | | | * 980 580 |
| | | | | | | 4895 mm |
| 1.5 m | Front Side | | | * 1800 1260 | 930 640 | 710 480 |
| | | | | | | 5263 mm |
| 0 m | Front Side | * 16980 * 16980 | | 1680 1130 | 890 600 | 720 490 |
| | | | | | | 5107 mm |
| 1.5 m | Front Side | | * 2370 * 2370 | * 1670 1110 | | 920 620 |
| | | | | | | 4358 mm |
| 3 m | Front Side | | | | | * 1540 * 1540 |
| | | | | | | 2290 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

ENGINE

| | |
|---------------------|-----------------------------|
| Model | Yanmar 4TNE94 |
| Type | Water cooled 4 cylinders |
| Flywheel horsepower | 52ps (51hp/38kW) at 2200rpm |
| Max. torque | 18.5 kg-m at 1600rpm |
| Displacement | 2776 cc |
| Bore and stroke | 94 mm × 100 mm |

HYDRAULIC SYSTEM

Pumps

Main pump:

| | |
|----------|---|
| Type | 2 variable displacement piston pumps +1 gear pump |
| Oil flow | 2 × 52.4+35.6 lpm |

Pilot pump gear pump

Hydraulic motors

| | |
|--------|--|
| Travel | variable displacement axial piston motor |
| Swing | fixed displacement piston motor |

Relief valve setting

| | |
|----------------|------------------------|
| Implement | 210 kg/cm ² |
| Travel circuit | 210 kg/cm ² |
| Swing circuit | 190 kg/cm ² |
| Pilot circuit | 33 kg/cm ² |

Hydraulic cylinders

| | |
|------------|-------------------|
| Boom | 1- ∅ 105 × 720 mm |
| Arm | 1- ∅ 90 × 825 mm |
| Bucket | 1- ∅ 80 × 660 mm |
| Boom swing | 1- ∅ 90 × 570 mm |
| Blade | 1- ∅ 105 × 230 mm |

SWING

| | |
|--------------------------|---|
| Swing brake | automatic mechanical brake with hydraulic control |
| Swing reduction | 2 stage planetary reduction gear |
| Swing speed | 10.0 rpm |
| Swing circle lubrication | grease bath |

STANDARD EQUIPMENT

| | | |
|--|--|----------------------------------|
| · Adjustable monitor | · Floormat | · Hydraulic track adjusters |
| · Air cleaner | · Horn | · Joysticks, pilot-operated |
| · Alternator(40A) | · Pull-up type front window | · Light : |
| · Batteries | · Safety glasses | · Frame mounted, two |
| · Boom holding valve | · Seat | · Boom mounted, two |
| · Cab, all-weather sound suppressed, includes: | · Seat belt | · Mirrors |
| · Ashtray | · Windshield wiper with intermittent feature | · Starting motor(12 volt, 2.3kW) |
| · Cigar lighter | · Counterweight | · Straight travel Circuit |
| · Door locks | · Dozer blade | · Tool box |

OPTIONAL EQUIPMENT

| | | |
|--------------------|----------------|---------------------------------|
| · Air conditioner | · Heater | · Spare parts |
| · Air heater | · Precleaner | · Stereo cassette radio (AM/FM) |
| · Fuel filler pump | · Rubber track | · Tops CAB |
| | | · Tool 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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