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GBSV100_0106

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SV100

Midi-excavator

YANMAR

SV100
Operating weight : 9350 kg
Arm digging force : 4760 kgf
Bucket digging force : 6980 kgf

The SV100 create s

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Midi-excavator

YANMAR

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SV100

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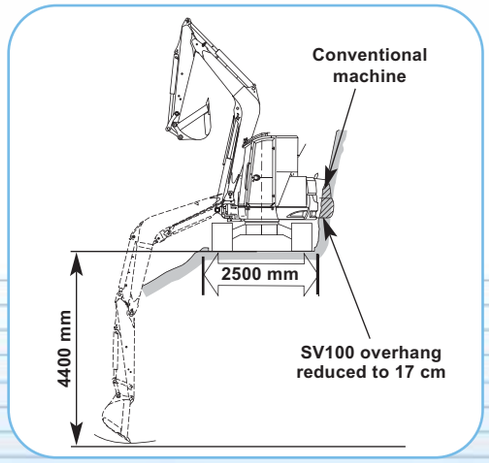
AMMANN
YANMAR

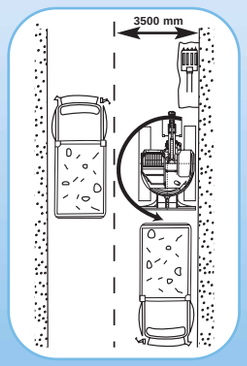
Compactness

SV100 : Co m and perf or

Exceptionally compact for an excavator in its weight category

- The SV100 "Semi-ViO" has characteristics approaching those of the renowned Yanmar "ViO" machines :
  - the front of the cab structure remains entirely within the width of the crawlers when slewing the upper frame ;
  - small 17 cm rear overhang.
- Very small dimensions :
  - undercarriage width reduced to 2320 mm ;
  - ultra-short rear swing radius of 1330 mm ;
  - front swing radius with boom swing : 1860 mm.
- No other machine in this weight class is as compact and has such a high digging force.
- Equipped with dozer blade and boom offset, the SV100 has the characteristics of a mini-excavator and the performances of a large excavator.





Advantages for the user : power and productivity

- Ability to carry out major works such as laying drains or digging foundations, due to high performance levels.
- Excellent dumping height (5200 mm).
- Digging forces similar to that of full-size excavators.
- Rear blind spot reduced to a minimum : optimum visibility around the machine.
- Able to operate on narrow sites where a conventional machine with a large counterweight would be unable to operate :
  - increased productivity : the operator can concentrate on his work without having to worry about the size of his machine ;
  - easy to dig right up close to walls ;
  - reduced risk of damaging the machine.
- Particularly well-suited to work in urban areas : no requirement to block traffic in both directions.
- The SV100 can work right in close to hedges without risk of burning them : the air outlets are directed upwards and not to the side.

Midi-excavator

YANMAR

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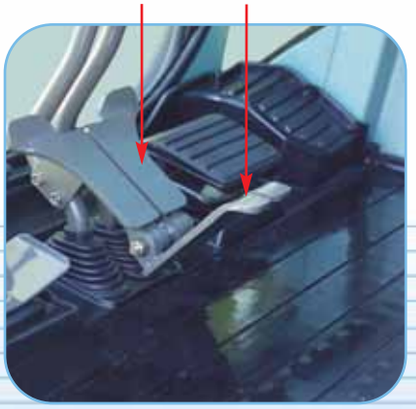
SV100

Comfort and safety

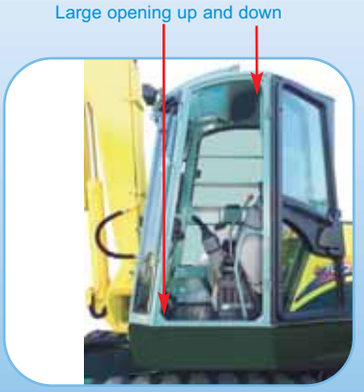
Spacious and ergonomic control position

- Spacious cab giving the operator plenty of room.
- Comfortable, multi-adjustable seat : sliding seat, reclining backrest and weight.
- Wide windows for perfect all-round visibility around the machine.
- Front windscreen fitted in 2 parts, can be fully retracted to the roof (lower and upper parts).
- Separate pedals for using the auxiliary power take-off line and swinging the boom. Sturdy covers which serve as footrests.
- Travel forward and backward pedal-controllable.



Maximum operator safety

- Cab meets the requirements of the strictest safety standards : ROPS (Roll Over Protective Structure), FOPS 1 (Falling Object Protective Structure) and TOPS (Tip-Over Protective Structure).
- Large safety lever on access to control position : in the raised position it prevents all working movements and travel.
- Modern, user-friendly instrument panel, giving instant warning to the operator of any anomalies that may occur.



High level of standard equipment

- Single or double-acting auxiliary hydraulic circuit to fit accessories (hydraulic breaker, clean ditching buckets).
- De-icing, heating, ventilation, interior lighting.
- Electrically-controlled engine speed (min-max) to save time and fuel.
- Fuel filling pump.
- Air-conditioning.

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High performance

Exceptional stability and lifting strength

- Long undercarriage (3070 mm) for good longitudinal stability.
- The use of a wide counterweight, asymmetric crawlers (System patented by Yanmar VICTAS®) and excellent weight distribution give it a level of stability identical to, or better than conventional machines of the same weight class, as well as remarkable lifting capacities.
- The VICTAS® system consists in increasing the bearing surface by increasing the track path and using asymmetric crawlers :
  - increased lateral stability ;
  - increased lifting capacity ;
  - reduced ground damage ;
  - reduced track wear ;
  - quiet, vibration-free movement.
- The angular shape of the undercarriage makes it possible to eject earth and deposits of foreign matter.

SV100

Reliability and acc

New generation Yanmar “TNV” (Totally New Value) engine

- The new turbo TNV engine exceeds the requirements of the stringent emission standards EPA Stage Nr2 :
  - emission reduction for an even cleaner engine ;
  - noise reduction for an even quieter engine ;
  - slow-speed operation for increased service life.

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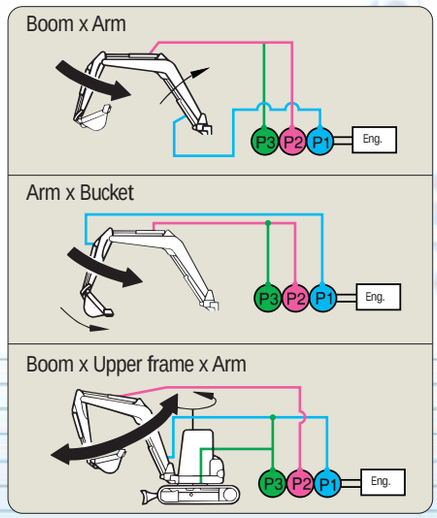
"VIPPS®" hydraulic circuit (ViO Progressive 3 Pumps System)

- Hydraulic circuit fitted with a variable-flow dual piston pump, a gear pump and a multiple-combination directional control valve :
  - increased working speed due to the cumulative pump capacities ;
  - smooth, simultaneous operation of all functions, even when travelling.

Environmentally friendly

- The excellent combination of a high-performance Yanmar engine and the VIPPS® hydraulic system provides perfect synchronization of the oil flow rate and the engine power. The engine does not have to be oversized in order to obtain high operating performance levels. The VIPPS® system uses the minimum amount of power to carry out the movement required.
- Advantages of the system :
  - engine not overloaded, giving it an extended service life ;
  - increased productivity ;
  - reduced fuel consumption ;
  - less noise and pollution.



accessibility

Miscellaneous protective devices

- Careful routing of hydraulic pipes and hoses on top of the boom.
- Work floodlight built into the boom.
- Protection on boom and blade cylinders.

Easy access to all maintenance points

- Extra large rear cover gives access to the engine components and hydraulic pumps.
- The routine daily check points are grouped beneath the side cover (oil, water, fuel, battery, filters).
- Rapid access to the control valve by removing the side shield at the base of the upper frame.

TECHNICAL SPEC

Engine

Yanmar Diesel 4 cylinders turbo	4TNV98T-SBV
Rated Output (DIN 6270B)	54.8 kw/74.5 HP/2200 rpm
Displacement	3318 cm^3
Maximum torque	315.8 N.m./1500 rpm

Hydraulic circuit

System capacity	110 l
Maximum pressure	280 bar
Variable flow dual piston pump	2 x 81.4 l/mn
1 gear pump	1 x 61.6 l/mn

Performances

Travelling speed	4.5/2.5 km/h	Grade ability	30°
Swing speed	9.6 rpm	Shoe width	485 mm
Digging force (arm/bucket)	4760/6980 kgf	Ground clearance	450 mm
Boom swing (L/R)	68°/68°	Blade (width x height)	2320 x 520 mm
Ground pressure*	0.37/0.36 kg/cm^2		

* steel/rubber crawlers

Miscellaneous

Fuel tank capacity	120 l
Cooling circuit	10.4 l
Transport dimensions (L x w x h)	6370 x 2320 x 2830 mm
Noise level LwA (2000/14/EC & 2005/88/EC)	99 dBA

Optional equipment

- Special paint
- Anti-theft device
- Beacon light, yellow
- 4th hydraulic circuit
- Safety device for loading
- FOPS2 protection bars on cab roof

PTO	Theoretical data	
	Pressure	2200 rpm
	0 ~ 200 bar	143 ~ 57 l/mn
	0 ~ 200 bar	143 ~ 57 l/mn

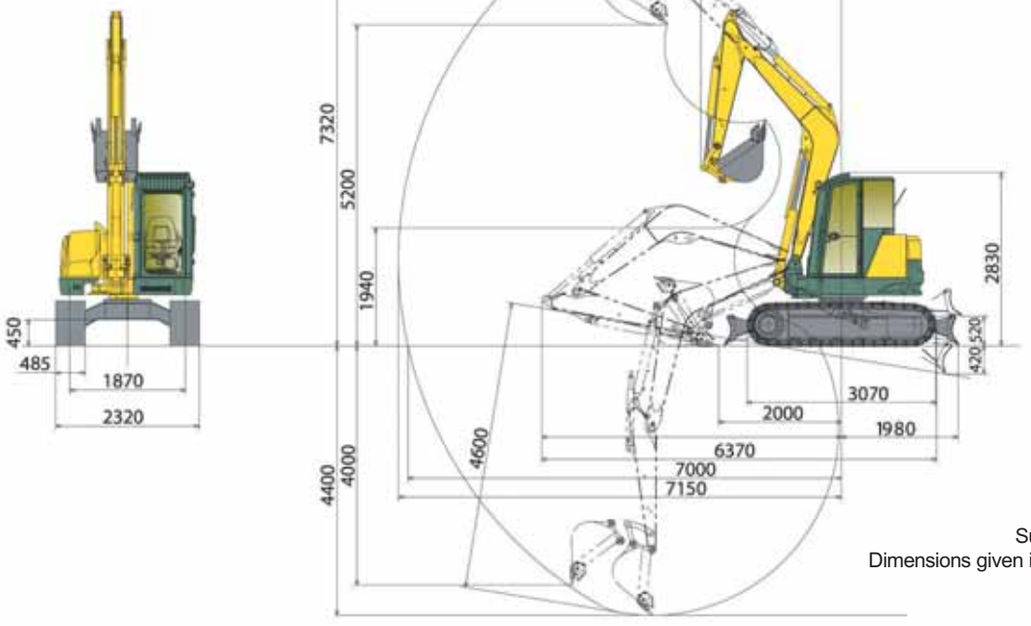
- The output reduces as the pressure increases.

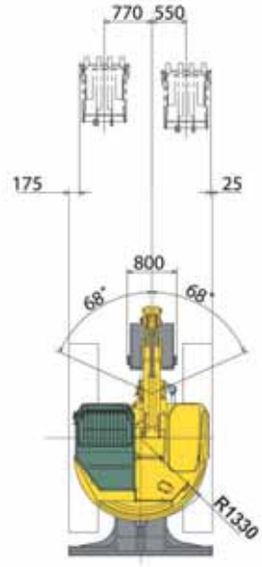
IFICATIONS

SV100

Operating weight +-2% :

9250 kg rubber crawlers
9350 kg steel crawlers





Subject to any technical modifications.
Dimensions given in mm with standard Yanmar bucket.

Blade on ground

A	Maxi		5.0 m		4.0 m		3.0 m		
B									
5.0	*1600	*1600	-	-	-	-	-	-	C
4.0	1160	*1620	1320	*1620	*1600	*1600	-	-	
3.0	1010	*1610	1380	*1690	*1910	*1910	-	-	
2.0	920	*1610	1310	*1870	1930	*2320	*3340	*3340	
1.0	860	*1610	1270	*2100	1840	*2770	2810	*4180	
0	890	*1610	1230	*2210	1700	*2940	2620	*4190	
- 1.0	1000	*1660	1210	*2090	1770	*2870	2630	*4000	
- 2.0	1240	*1600	-	-	1740	*2390	2640	*3210	

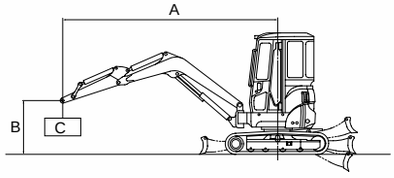
Blade above ground

A	Maxi		5.0 m		4.0 m		3.0 m		
B									
5.0	*1600	*1600	-	-	-	-	-	-	C
4.0	1160	1360	1320	1380	*1600	*1600	-	-	
3.0	1010	1220	1380	1400	*1910	*1910	-	-	
2.0	920	1090	1310	1540	1930	*2320	*3340	*3340	
1.0	860	1050	1270	1580	1840	2230	2810	3460	
0	890	1090	1230	1500	1700	2120	2620	3300	
- 1.0	1000	1170	1210	1510	1770	2110	2630	3410	
- 2.0	1240	*1600	-	-	1740	2050	2640	2850	

The data contained in these tables represent the lifting capacity in accordance with ISO standard 10567.
They correspond to 75% of the maximum static tipping load or 87% of the hydraulic lifting power.
Data marked * are the hydraulic limits of the lifting power.

Machine with cab, rubber crawlers and 260 kg bucket (800 mm).

A : Overhang from rotational axis (m).
B : Height of hooking point (m).
C : Safe working load (kg).



Tipping load, rating over front

Tipping load, rating over side 90°