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**SV15**

## Mini-excavator



**SV15**

Operating weight : 1655/1535 kg

Arm digging force : 780 kgf

Bucket digging force : 1400 kgf



*The SV15 create  
in the class of 1,5  
new Semi-*



Mini-excavator



*s a new standard  
00-kg excavators :  
ViO series*



**SV15**





# Compactness

## Design principles

- Compact dimensions :
  - width of the machine reduced to 980 mm ;
  - rear swing radius : 980 mm ;
  - front swing radius with boom swing : 1290 mm.
- Weight and dimensions allowing easy transport on a trailer or in an utility vehicle.

The Semi-Vio series makes an impact in the market. For the first time, a 1,5-ton machine combines compact dimensions with high performance levels.



# SV15

## Advantages for the user

- Possibility to work in narrow areas, where a conventional machine of 1500 kg is not able to work.
- Maximum superb all-round visibility : safety and productivity for the operator.
- Particularly well-suited to work in urban areas : cable-laying, landscaping...
- Loading and easy transfer from one site to another : more productivity.

Mini-excavator



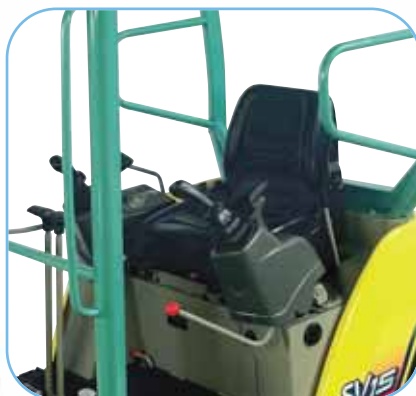
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500 kg mini-excavator  
act dimensions,  
Is and great stability.

# Comfort and safety



## Spacious and ergonomic pilot system

- Perfect position of joysticks, armrests and travel levers with pedals.
- Separate pedals for using the auxiliary power take-off line and boom offset.
- Comfortable and adjustable seat.
- Access possible from both sides on the canopy version.



## Spacious cabin

- Cabin with a lot of space for such a compact machine.
- Wide access to the operating position.
- Defroster, heater, ventilation, inside lighting, windscreen washer.



## Maximum operator safety

- Canopy and cabin meet the requirements of the strictest safety standards :
  - ROPS (Roll Over Protective Structure) ;
  - FOPS 1 (Falling Object Protective Structure) ;
  - TOPS (Tip-Over Protective Structure).
- Large safety lever on access to control position : in the raised position it prevents all working movements and travel.
- The really designed boom enables perfect visibility to the bottom of the trench.



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## High performance

### Hydraulic circuit Load-Sensing

- Precise working movements.
- Simultaneous operations.
- Safety and productivity, particularly for operations requiring accuracy : grading.



Dual or single-action auxiliary circuit fitted to arm end.

## Reliability and a

### Robust construction

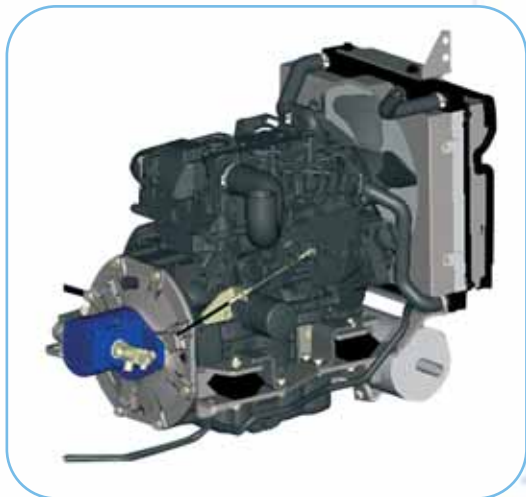
- Machine constructed using modular assemblies : easy and reliable assembly of all components.
- Upper frame made from a single casting providing improved stability and greater durability.
- Rear and side bonnets in steel.
- Perfect protection on boom and blade cylinders.
- Integrated working lamp.





## A new-generation Yanmar "TNV" (Totally New Value) engine

- Improvement and modernisation of TNE series, which is already well-known for its "clean and quiet" profile :
  - reduced emissions for an even cleaner engine ;
  - noise reduction for an even quieter engine ;
  - improved starting (warms up faster).
- The new TNV series exceeds the most stringent emissions standards.



## Successful combination between the engine and the hydraulic system

- Reduced fuel consumption.
- Increased productivity.
- Less exhaust fumes.

## Excellent traction forces for an excavator in this weight class.

tank refuelling



## Accessibility

### Easy access to all maintenance points : significant decrease in service times and operational costs

- Large rear bonnet :
  - Direct access to fuel, air, hydraulic return filters and coolant expansion tank.
- Opening of the front seat plate :
  - Immediate access to battery, alternator, starter motor, PTO selector valve and electrical components.
- Removing of the right hand side panel :
  - Immediate access to fuel tank and radiators.
- Removing of the left hand side panel :
  - Direct access to hydraulic pump and suction filter.
- Quick access to the control valve by removing the left side panel and the floor plate.





# TECHNICAL SPECI

## Engine

Yanmar Diesel 3 cylinders .....	3TNV70-XBVA1
Rated Output (DIN 6270B) .....	12.1 kw/16.5 HP/2600 rpm
Displacement .....	854 cm <sup>3</sup>
Max. torque .....	53 N.m./1800 rpm

## Load-Sensing hydraulic circuit

System capacity .....	24.5 l	Straight travelling .....	
Hydraulic tank capacity .....	16 l	Direct return to hydraulic tank .....	
Max. pressure .....	180 bar	Accumulator .....	
Fixed displacement gear pump .....	33.8 l/mn		

## Performances

Travelling speed .....	2.0 km/h	Gradeability .....	30°
Swing speed .....	9.4 rpm	Shoe width .....	230 mm
Digging force (arm/bucket) .....	780/1400 kgf	Ground clearance .....	190 mm
Boom swing (L/R) .....	40°/80°	Blade (width x height) .....	980 x 230 mm
Ground pressure* .....	0.27/0.25 kg/cm <sup>2</sup>		* cabin/canopy





## Miscellaneous

Fuel tank .....	24.5 l
Cooling system .....	2.9 l
Transport dimensions (L x w x h) .....	3450 x 980 x 2256 mm
Noise level LwA (2000/14/EC & 2005/88/EC) .....	93 dBA



## Optional equipment

Special paint	2 additional working lights
Bio Oil	Right hand side rear view mirror
Safety device for loading	Left hand side rear view mirror
Anti-theft device	Rear mounted mirror
Long dipper arm (+ 200 mm)	Cup holder / bottle holder (Cab)

PTO	Theoretical data	
	Pressure	2600 rpm
	176.5 bar	33.8 l/mn
	176.5 bar	33.8 l/mn

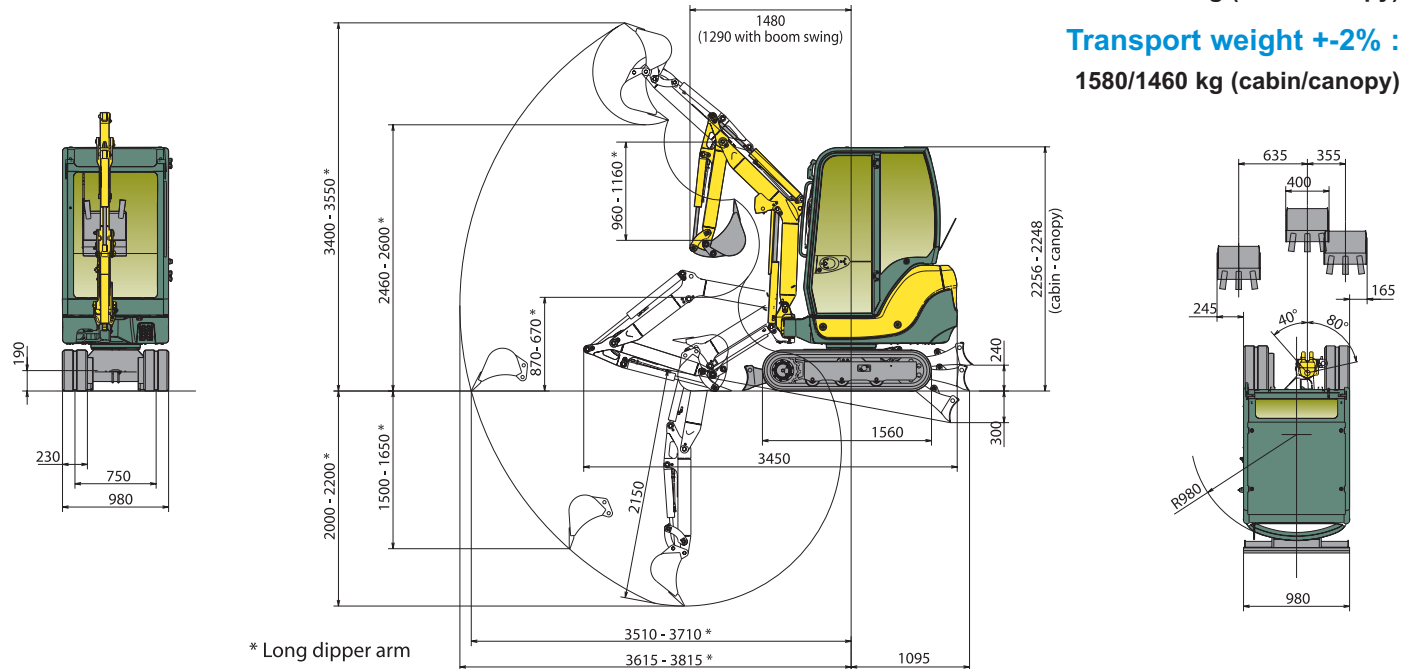


Operating weight (EC Norm) +-2% :

1655/1535 kg (cabin/canopy)

Transport weight +-2% :

1580/1460 kg (cabin/canopy)



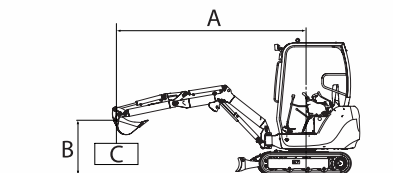
Subject to any technical modifications.  
Dimensions given in mm with standard Yanmar bucket.

### Blade on ground

A	Maxi		2.5 m		2.0 m		1.5 m	
B								
2.5	230	*305	-	-	-	-	-	-
2.0	185	*310	230	*290	-	-	-	-
1.5	165	*320	225	*320	-	-	-	-
1.0	150	*325	210	*370	295	*465	-	-
0.5	155	*340	215	*430	280	*575	-	-
0	165	*350	205	*455	275	*625	395	*990
-0.5	180	*365	200	*435	275	*600	405	*880
-1.0	230	*370	-	-	280	*510	455	*735

Machine with canopy,  
rubber crawlers,  
bucket of 38 kg (400 mm).

A : Overhang from rotational axis (m).  
B : Height of hooking point (m).  
C : Safe working load (kg).  
(+4% with cabin).



### Blade above ground

A	Maxi		2.5 m		2.0 m		1.5 m	
B								
2.5	225	*305	-	-	-	-	-	-
2.0	185	*310	225	*290	-	-	-	-
1.5	160	250	215	*320	-	-	-	-
1.0	145	215	205	290	285	*465	-	-
0.5	150	215	210	285	275	390	-	-
0	155	220	200	280	265	380	375	570
-0.5	175	245	195	280	265	380	375	570
-1.0	220	305	-	-	265	390	420	625

Tipping load, rating over front

Tipping load, rating over side 90°

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.