

**SV15**  
1535/1655 kg



Call for Yanmar solutions





## > COMPACTNESS

### SV15

The Semi-ViO series from Yanmar stands out from the other machines in this weight class. The SV15 combines compact dimensions, high performance levels and great stability.

### 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

- > Transport weight with canopy: 1460 kg.
- > Transport weight with cabin: 1580 kg.

#### Advantages for the user

- > Possibility to work in narrow areas, where a conventional machine of 1,500 kg is not able to work.
- > Maximum all-round visibility: safety and productivity for the operator.
- > Particularly well-suited to work in urban areas: cable-laying, landscaping, improving the sanitation...
- > Loading and easy transfer from one site to another: more productivity.

# > HIGH PERFORMANCE

## SV15



### Hydraulic circuit flow sharing Load-Sensing, variable flow piston pump

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



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

### 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.

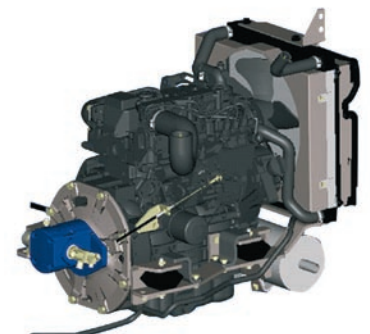
### A new-generation Yanmar “TNV “ (Totally New Value) engine



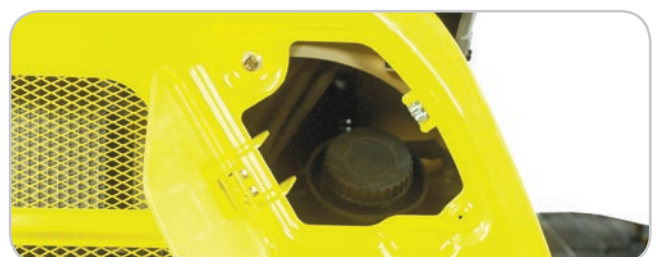
Improvement and modernisation of TNE series, which is already well-known for its “clean and quiet” profile:

- > 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. It meets Stage II emissions regulations of the European Commission (EC).



**3TNV70-XBVA1**



- > Tank refuelling.



## > COMFORT & SAFETY

### SV15

Exceptional comfort and convenience. The many easy to use features include sensitive lever controls and uncomplicated lever arrangement.

#### 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 well designed boom enables perfect visibility to the bottom of the trench.



# RELIABILITY & ACCESSIBILITY

## SV15



### 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.



### 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 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 hydraulic distributor by removing the left side panel and the floor plate.





# TECHNICAL SPECIFICATIONS

## SV15

### Engine

Yanmar Diesel 3 cylinders .....	3TNV70-XBVA1
Rated output .....	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
Hydraulic tank capacity .....	16 l
Max. pressure .....	180 bar
Fixed displacement gear pump.....	33.8 l/mn
Straight travelling .....	
Direct return to hydraulic tank .....	
Accumulator .....	

### Performances

Travelling speed.....	2 km/h
Swing speed .....	10 rpm
Digging force (arm/bucket) .....	780 / 1400 kgf
Boom swing (L/R) .....	40° / 80°
Ground pressure* .....	0.25 / 0.26 kg/cm <sup>2</sup>
Grade ability .....	30°
Shoe width .....	230 mm
Ground clearance.....	190 mm
Blade (width x height) .....	980 x 230 mm

\* Canopy/Cabin

### Miscellaneous

Fuel tank .....	24.5 l
Cooling system.....	2.9 l
Transport dimensions (L x w x h).....	3450 x 980 x 2255 mm
Noise level LwA (2000/14/EC & 2005/88/EC) .....	92 dBA

### Optional equipment

- > Special paint
- > Bio Oil
- > Safety device for loading
- > Anti-theft device (with key/ keyboard)
- > 2 additional working lamps on the cabin
- > Radio
- > Quick couplers
- > Long arm (+ 200 mm)
- > Mechanical quick hitch
- > Standard, ditch cleaning and swivelling buckets
- > Hydraulic breaker

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



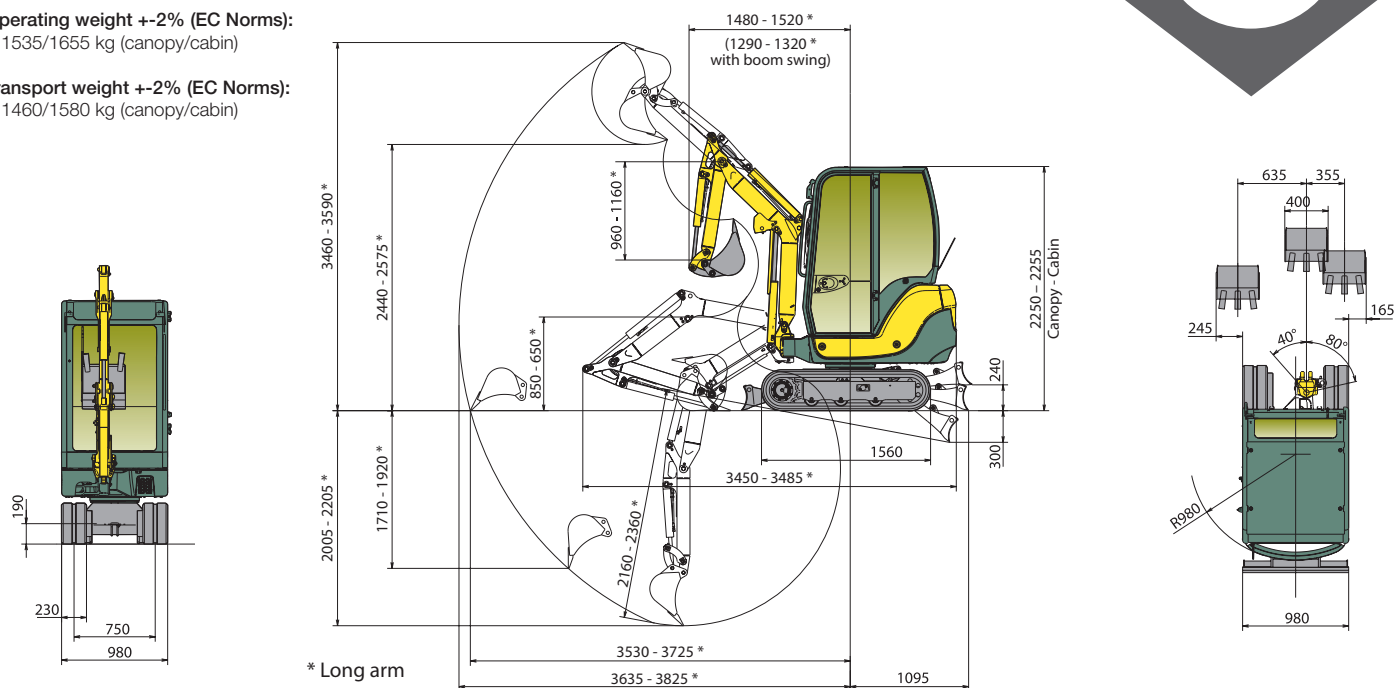
# TECHNICAL SPECIFICATIONS

## SV15



Operating weight  $\pm 2\%$  (EC Norms):  
> 1535/1655 kg (canopy/cabin)

Transport weight  $\pm 2\%$  (EC Norms):  
> 1460/1580 kg (canopy/cabin)



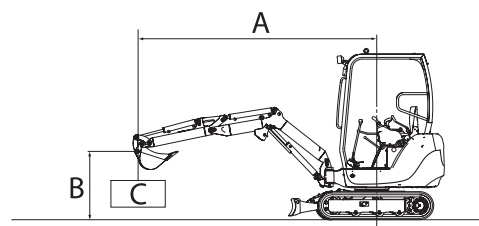
Subject to any technical modifications. Dimensions given in mm with standard Yanmar bucket.

Blade on ground

A	Maxi		2.5 m		2.0 m		1.5 m		
B									
2.5	230	*305	-	-	-	-	-	-	C
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, without bucket.

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	-	-	-	-	-	-	C
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	

The data contained in these tables represent the lifting capacity in accordance with ISO standard 10567. They don't include the weight of the bucket and 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.



Tipping load, rating over front



Tipping load, rating over side 90°



Printed in France – Materials and specifications are subject to change from the manufacturer without notice. Please contact your local Yanmar Construction Equipment Europe dealer for further information.

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