

SV17Ex
1805/1925 kg



Call for Yanmar solutions





> COMPACTNESS

SV17Ex

The Semi-ViO series from Yanmar stands out from the other machines in this weight class. The mini-excavator SV17Ex combines compact dimensions, high performance levels and great stability.

Design principles

Compact dimensions:

- > Width of the machine reduced to 980 mm (retracted undercarriage).
- > Rear swing radius: 980 mm.
- > Front swing radius with boom swing: 1340 mm.

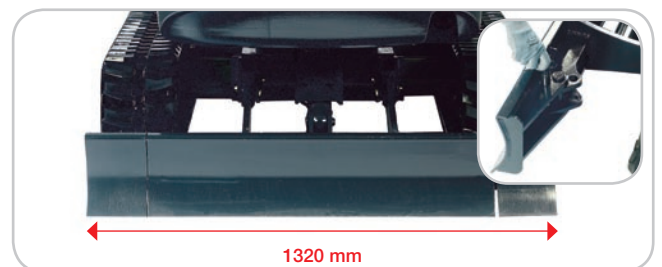
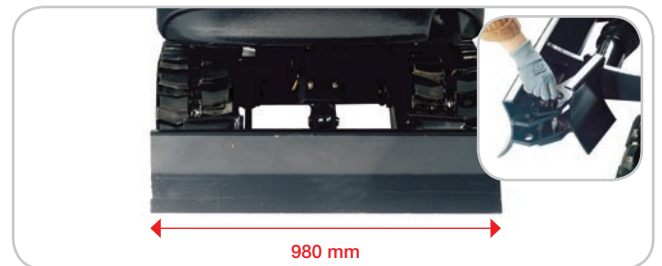
Weight and dimensions allowing easy transport on a trailer or in an utility vehicle

- > Transport weight with canopy: 1730 kg.
- > Transport weight with cabin: 1850 kg.

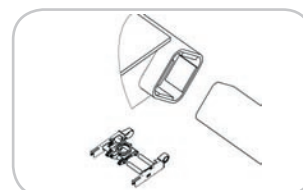


Extendable undercarriage of unique conception

- > The hinged blade extensions are permanently fixed on the blade. No tools are necessary to change quickly the position.
- > A switch selects the blade moving or the undercarriage extension: the blade lever selects the desired function.
- > Reduced clearance between the sliding parts: no soil build-up during the extension of undercarriage.
- > High reliability over a long-term period.
- > The SV17Ex is even more stable due to the use of an extended undercarriage and good weight distribution.



- > Switch for undercarriage extension.



- > 4 sliding parts at 45° for a better rigidity and less wear.

> HIGH PERFORMANCE

SV17Ex



Hydraulic circuit Load-Sensing flow sharing, 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

Advantages for the user

- > Possibility to work in narrow areas, where a conventional machine of 1500 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.

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

2nd speed command on the right travel lever



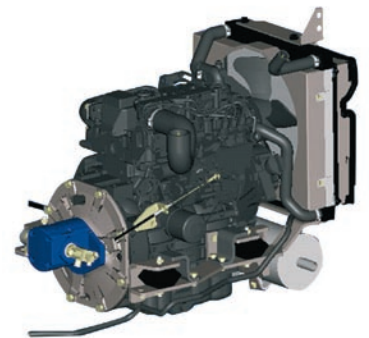
A new-generation Yanmar « TNV » (Totally New Value) engine



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 3TNV70-VBVA engine meets Stage II emissions norms of the European Commission (EC).



3TNV70-VBVA





> COMFORT & SAFETY

SV17Ex

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, multi-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 movement and travel.
- > The well-designed boom enables perfect visibility to the bottom of the trench.



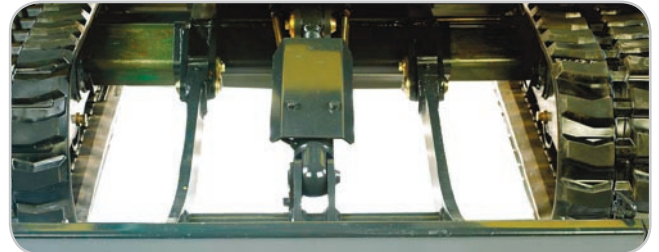
RELIABILITY & ACCESSIBILITY

SV17Ex



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.
- > Integrated working lamp.



- > Perfect protection on boom and blade cylinders.
- > Careful routing of hydraulic pipes and hoses in and on top of boom.

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 SPECIFICATIONS

SV17Ex

Engine

Yanmar Diesel 3 cylinders	3TNV70-VBVA
Rated output	9.5 kw / 12.9 HP / 2100 rpm
Displacement	854 cm ³
Max. torque.....	51.4 N.m. / 1500 rpm

Load-Sensing hydraulic circuit

System capacity	24.5 l
Hydraulic tank capacity	16 l
Max. pressure	200 bar
Variable flow piston pump.....	37.8 l/mn
Straight travelling	
Direct return to hydraulic tank.....	
Accumulator.....	

Performances

Travelling speed.....	2.0 / 3.5 km/h
Swing speed	10 rpm
Digging force (arm/bucket)	755 / 1550 kgf
Boom swing (L/R).....	40° / 80°
Ground pressure*	0.32 / 0.30 kg/cm ²
Grade ability	30°
Shoe width	230 mm
Ground pressure	160 mm
Blade (width x height)	980 / 1320 x 230 mm

* Cabin/canopy

Miscellaneous

Fuel tank	24.5 l
Cooling system.....	2.9 l
Transport dimensions (L x w x h).....	3660 x 980 x 2255 mm
Noise level LwA (2000/14/EC & 2005/88/EC).....	91 dBA

Optional equipment

- > Special paint
- > Safety device for loading
- > Anti-theft device (with key/ keyboard)
- > 2 additional working lamps on the cabin
- > Bio oil
- > Radio
- > Beacon light
- > Quick coupler
- > Mechanical quick hitch
- > Standard, ditch cleaning and swivelling buckets
- > Hydraulic breaker

PTO	Theoretical data at 2100 rpm	
	Pressure	Oil flow
	0 ~ 196 bar	37.8 ~ 17.5 l/mn
	0 ~ 196 bar	37.8 ~ 17.5 l/mn

> The output reduces as the pressure increases.



TECHNICAL SPECIFICATIONS

SV17Ex

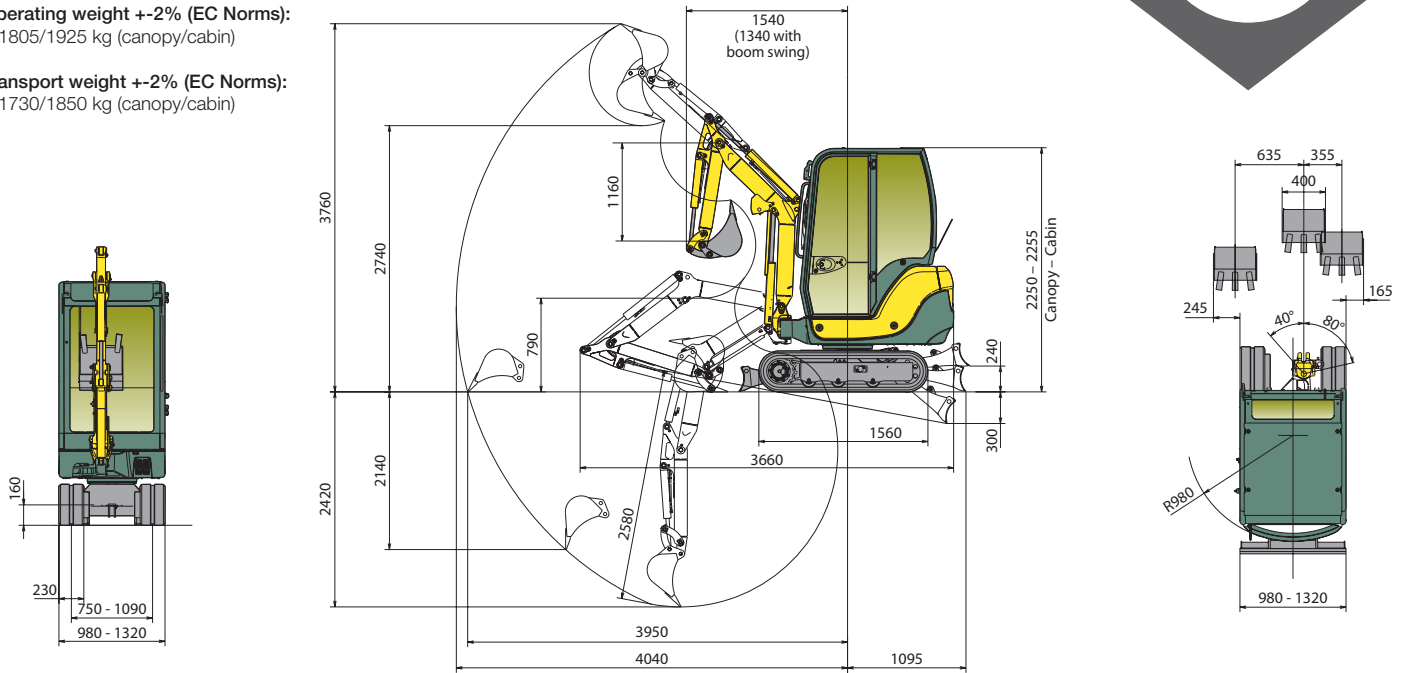


Operating weight +-2% (EC Norms):

> 1805/1925 kg (canopy/cabin)

Transport weight +-2% (EC Norms):

> 1730/1850 kg (canopy/cabin)



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

Blade on ground

A	Maxi			3.0 m			2.5 m			2.0 m			C
	N	W		N	W		N	W		N	W		
2.5	*245	*245	*245	*235	*235	*235	-	-	-	-	-	-	-
2.0	*260	210	*260	*235	*235	*235	*230	*230	*230	-	-	-	-
1.5	*265	190	*265	*265	220	*265	*275	*280	*275	*300	*300	*300	-
1.0	*275	180	*275	*290	220	*290	*335	285	*335	*435	*440	*435	-
0.5	*290	180	*290	*335	210	*335	*400	270	*400	*535	375	*535	-
0	*310	185	*310	*350	210	*350	*445	280	*445	*600	360	*600	*820
-0.5	*310	195	*310	*335	220	*335	*430	255	*430	*595	340	*595	*790
-1.0	*320	225	*320	-	-	-	*405	275	*405	*580	355	*580	*760
-1.5	*310	240	*310	-	-	-	-	-	-	*425	345	*425	*645

Machine with cabin, rubber crawlers, without bucket.

A: Overhang from rotational axis (m).

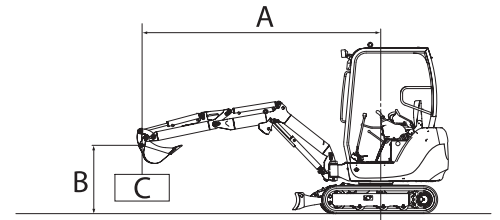
B: Height of hooking point (m).

C: Safe working load (kg).

N: Retracted undercarriage.

W: Extended undercarriage.

(- 4 % with canopy)



Blade above ground

A	Maxi			3.0 m			2.5 m			2.0 m			C
	N	W		N	W		N	W		N	W		
2.5	*245	*245	*245	*235	*235	*235	-	-	-	-	-	-	-
2.0	*260	210	*260	*235	*235	*235	*230	*220	*230	-	-	-	-
1.5	*265	195	*265	*265	230	*265	*275	*270	*275	*300	*293	*300	-
1.0	*275	185	*275	*290	225	*290	*335	280	*335	*435	*430	*435	-
0.5	*290	185	*290	*335	215	*335	*400	275	*400	*535	375	*535	-
0	*310	190	*310	*350	215	*350	*445	275	*445	*600	365	*600	*820
-0.5	*310	195	*310	*335	220	*335	*430	255	350	*595	340	460	*790
-1.0	*320	225	*320	-	-	-	*405	265	415	*580	345	475	*760
-1.5	*310	240	*310	-	-	-	-	-	-	*425	345	*425	*645

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 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.



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.

Yanmar Construction Equipment Europe S.A.S.

25, rue de la Tambourine
52100 SAINT DIZIER – FRANCE
contact@yanmar.fr

www.yanmar.eu