



## AMMANN-YANMAR SAS

25, rue de la Tambourine - F-52100 SAINT DIZIER

[sales@ammann-yanmar.fr](mailto:sales@ammann-yanmar.fr)

[www.ammann-yanmar.com](http://www.ammann-yanmar.com)



Midi-excavator



**YANMAR**

**ViO75**

Operating weight : 7720 kg

Arm digging force : 3900 kgf

Bucket digging force : 5590 kgf



# ***Yanmar, inven of the ZTS m***



**Midi-excavator**



# tor and leader ini-excavators



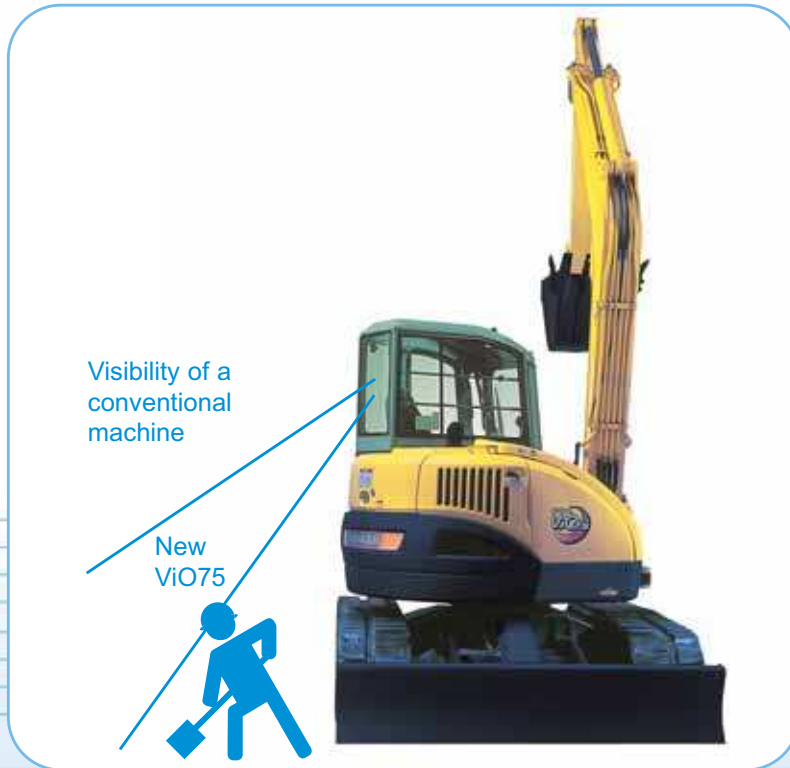


# Zero Tail Swing

**Yanmar, inven**  
**of the ZTS m**

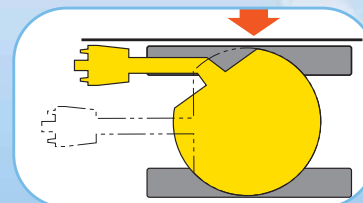
## Design principles

- The ViO75 is a real Zero Tail Swing machine : neither the counterweight nor the front part of the upper frame exceed the width of the crawlers.
- Compact dimensions :
  - front swing radius with boom swing : 1700 mm ;
  - rear swing radius : 1130 mm ;
  - width of the machine reduced to 2270 mm.



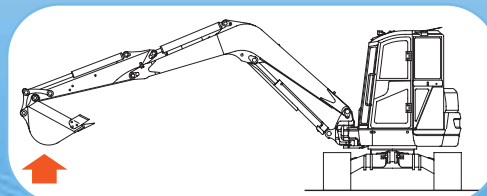
## Advantages for the user

- Possibility to work in narrow areas, where a conventional machine is not able to work.
- Possibility to work along a wall.
- No dead angle in the upper structure : maximum superb all-round visibility.
- Safety and productivity for the operator.
- Easier transport thanks to reduced width.



## Excellent weight distribution

- The use of a large counterweight, asymmetric crawlers (VICTAS® system) and high tensile equipment allows :
  - equalled stability, even higher than that of a conventional machine of the same weight ;
  - increased lifting capacity of 10%.



**Midi-excavator**



# tor and leader ini-excavators



## Comfort and safety

### New generation of high comfort cabin ROPS - FOPS 1 - TOPS

- The cabin is more spacious than most of the machines in the same weight class with or without zero tail swing.
- Large surface with windows for superb all-round visibility.

### Easy access to pilot system

- Excellent width at the top and the bottom of the cabin.
- Large safety lever to lock working operations and travel.



### Ergonomic pilot system

- Perfect position of joysticks, armrests and travel levers with pedals.
- Comfortable, multi-adjustable seat with safety belt : sliding seat, reclining backrest and weight.
- Defroster, heater, ventilation, inside lighting.
- Windscreen in 2 parts, stored overhead.
- Sliding side windows.
- Separate pedals for using the auxiliary power take-off line and swinging the boom. Sturdy covers which serve as footrests.

Modern & user-friendly instrument panel





# tor and leader ini-excavators



## High performance

### Auxiliary circuit (PTO)

- Dual auxiliary circuit to add various accessories : hydraulic rock breaker, swivelling ditch cleaning buckets, concrete share, auger, etc.
- Pedal lock for use with manual hydraulic tools.



### Exceptional stability

- Long undercarriage (2890 mm) for improved lateral stability.
- Higher side stability thanks to 5 carrier rollers with double flanges and the use of asymmetric crawlers. This "VICTAS®" system brings additional advantages :
  - better lifting capacity ;
  - less ground damage ;
  - less track wear ;
  - noise- and vibration-free travel.



## Reliability and ac

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

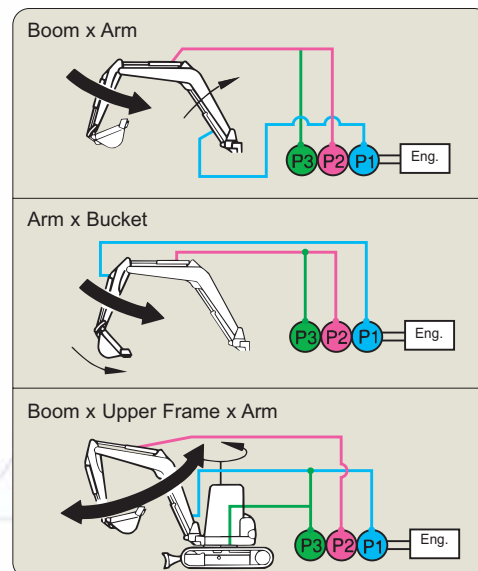
- Improvement and modernisation of TNE series, which is already well-known for its "clean and quiet" profile :
  - reduced emissions for an even cleaner engine ;
  - noise reduction for an even quieter engine ;
  - improved starting (warms up faster).
- The new TNV series exceeds the most stringent emissions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





## Power and Productivity

- VIPPS® hydraulic circuit (ViO Progressive 3 Pumps System) 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.
- Shock absorber on boom and arm cylinders.



## Environmentally friendly

- Combination of a high-performance Yanmar engine and the VIPPS® hydraulic system :
  - less noise ;
  - reduced fuel consumption ;
  - less exhaust fumes.
- Exhaust gas vented vertically.

## Electrical control of engine speed (mini or maxi)

- time saving ;
- less fuel consumption.

## 2<sup>nd</sup> speed command (pedal in front position)



Button



Control of engine speed



2<sup>nd</sup> speed command

# Accessibility

## Miscellaneous protective devices

- Careful routing of hydraulic pipes and hoses on top of the boom.
- Integrated working lamp.
- Protection on boom and blade cylinders.

## Robust undercarriage

- The angular shape of the undercarriage makes it possible to eject earth and deposits of foreign matter.
- Crawlers equipped with small metal inserts with short pitch for a more comfortable ride.

## Easy access to maintenance points

- Large rear bonnet allowing access to all engine components and hydraulic pumps.
- Daily check points gathered under the front bonnet :
  - hydraulic oil level ;
  - top up for oil, water and diesel ;
  - control of battery ;
  - inspection of fan belt and hydraulic filters.
- Quick access to control valve by removing side panel.





# TECHNICAL SPEC

## Engine

Yanmar Diesel 4 cylinders ..... 4TNV98-XBV  
Rated Output (DIN 6270B) ..... 43.4 kw/58.2 HP/2000 rpm  
Displacement ..... 3318 cm<sup>3</sup>  
Max. torque ..... 251 N.m./1200 rpm

## Hydraulic circuit

System capacity ..... 100 l  
Max. pressure ..... 245 bar  
Variable flow dual piston pump ..... 2 x 74 l/mn  
1 gear pump ..... 1 x 60.4 l/mn

## Performances



Travelling speed\* ..... 2.7/4.7 km/h - 2.5/4.5 km/h  
Swing speed ..... 10 rpm  
Digging force (arm/bucket) ..... 3900/5590 kgf  
Boom swing (L/R) ..... 68°/68°  
Ground pressure\* ..... 0.342/0.346 kg/cm<sup>2</sup>  
Grade ability ..... 30°  
Shoe width ..... 450 mm  
Ground clearance ..... 380 mm  
Blade (width x height) ..... 2260 x 450 mm  
\*rubber crawlers/steel crawlers

## Miscellaneous

Fuel tank ..... 100 l  
Cooling system ..... 8.7 l  
Transport dimensions (L x w x h) ..... 6285 x 2270 x 2715 mm  
Noise level LwA (2000/14/EC & 2005/88/EC) ..... 98 dBA

## Optional equipment

Special paint  
Air conditioning  
Anti-theft device  
Beacon light, yellow  
FOPS 2 protection bars on cab roof  
4<sup>th</sup> hydraulic circuit  
Safety device for loading  
Electric refuelling pump

PTO	Theoretical data	
	Pressure	2000 rpm
	0 ~ 245 bar	134.4 ~ 92.5 l/mn
	0 ~ 245 bar	134.4 ~ 92.5 l/mn



- The output reduces as the pressure increases.

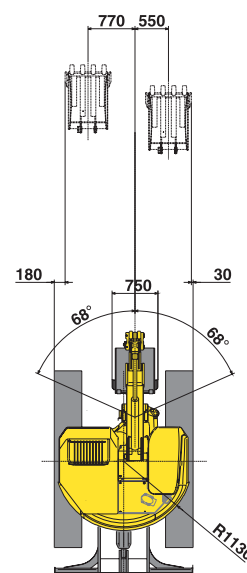
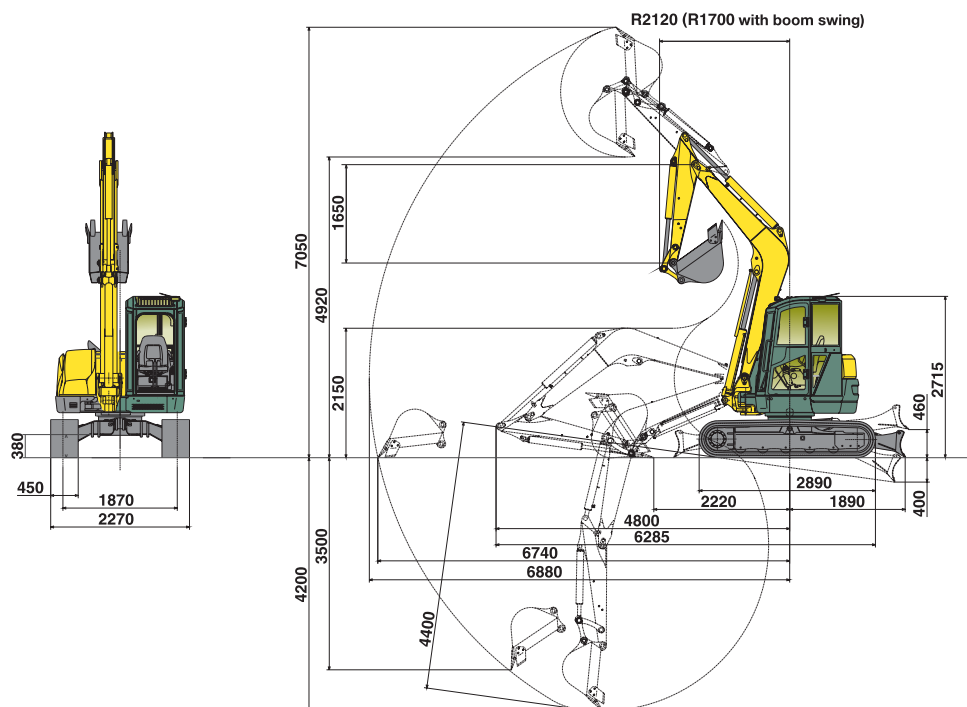
# IFICATIONS



Operating weight +2% :

7720 kg (rubber crawlers)

7770 kg (steel crawlers)



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

## Blade on ground

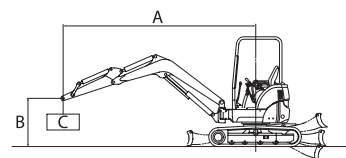
A	Maxi		5.0 m		4.0 m		3.0 m		
B									
5.0	*1510	*1510	-	-	*1580	*1580	-	-	C
4.0	1080	*1530	-	-	*1530	*1530	-	-	
3.0	900	*1530	1060	*1580	1510	*1790	-	-	
2.0	790	*1530	1010	*1730	1470	*2160	2330	*3230	
1.0	770	*1580	980	*1870	1400	*2500	2170	*3690	
0	790	*1600	980	*1930	1370	*2550	2160	*3580	
- 1.0	860	*1580	970	*1800	1370	*2410	2190	*3450	
- 2.0	1100	*1530	-	-	1330	*2020	2300	*2810	
- 3.0	*1300	*1300	-	-	-	-	*1490	*1490	

Machine with cabin,  
rubber crawlers,  
bucket of 195 kg (750 mm).

A : Overhang from rotational axis (m).

B : Height of hooking point (m).

C : Safe working load (kg).



## Blade above ground

A	Maxi		5.0 m		4.0 m		3.0 m		
B									
5.0	*1510	*1510	-	-	*1580	*1580	-	-	C
4.0	1080	1100	-	-	*1530	*1530	-	-	
3.0	870	900	1040	1130	1510	*1790	*2280	*2280	
2.0	770	830	1010	1070	1470	1540	2300	2410	
1.0	760	800	980	1040	1400	1460	2120	2260	
0	800	820	970	1010	1320	1400	2120	2150	
- 1.0	850	950	950	1010	1340	1400	2130	2270	
- 2.0	1070	1100	-	-	1330	1400	2130	2300	
- 3.0	*1300	*1300	-	-	-	-	*1490	*1490	

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.