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Mini-excavator



ViO10-2A

Operating weight : 1245 kg

Arm digging force : 570 kgf

Bucket digging force : 1400 kgf

*Yanmar, inven to  
of the ZTS min*



Mini-excavator



# Best in class and leader in mini-excavators



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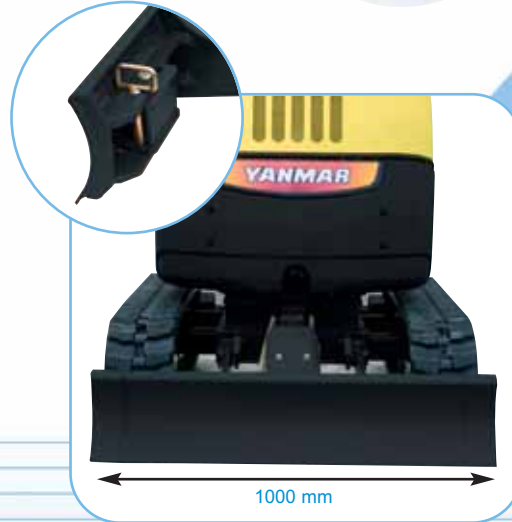


# Zero Tail Swing

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

## Design principles

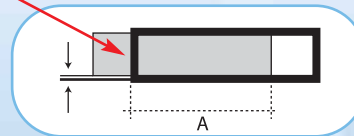
- The ViO10-2A is a real Zero Tail Swing machine :
  - extended undercarriage, neither the counterweight nor the front part of the upper frame exceed the width of the crawlers ;
  - retracted undercarriage, the rear of the machine only exceeds 85 mm.
- Compact dimensions :
  - front swing radius with boom swing : 1080 mm ;
  - rear swing radius : only 650 mm ;
  - width of the machine reduced to 830 mm when the undercarriage is retracted.



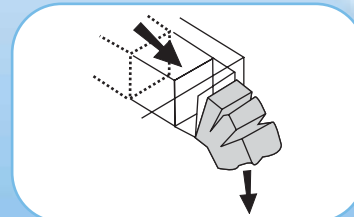
## Extendable undercarriage of unique conception

- The hinged blade extensions are permanently fixed on the blade. No tools are necessary to change quickly the position.
- Reduced clearance between the sliding parts : no soil build-up during the extension of undercarriage.
- High reliability over a long-term period.
- The ViO10-2A is extremely stable due to the use of an extended undercarriage and good weight distribution.

Sliding parts



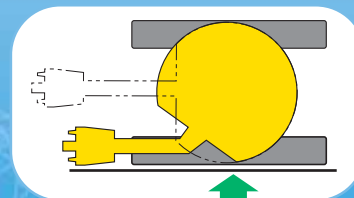
Small play due to long overlap (A)



Clogged mud is easily pushed out

## Advantages for the user

- Easy access in narrow areas.
- Possibility to work along a wall.
- The ViO concept allows the operator to work without paying attention to the rear of the machine : safety and productivity.
- Machine perfectly adapted for restoration of houses.
- Easy use, even for non professional operators (private individuals).



Mini-excavator



Best performer and leader  
in mini-excavators



## High performance

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

- Fully compliant with European norm 97/68/EC (exhaust emissions) and the latest American norms, EPA Stage Nr.2.
- Low speed - increased life.
- Less vibration.
- Use of a Yanmar engine 3 cylinders and an hydraulic system using a variable flow double piston pump : high productivity.
- High digging forces for such a machine.



### Working equipment

- Dual or single-action auxiliary circuit to add various accessories (swivelling ditch cleaning buckets...).
- Lifting of the machine on one point thanks to a hook on the top of the boom.

Easy lifting



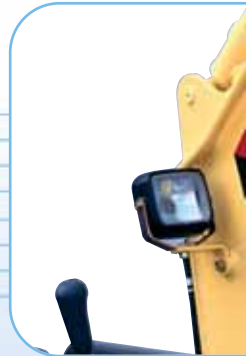
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**YANMAR**

# ...tor and leader ...ini-excavators

## Comfort and safety

### Ergonomic pilot system

- Progressive hydraulic pilot system for more precision.
- Separate pedals for the 3<sup>rd</sup> circuit (PTO) and boom swing : possibility of combined movements.
- Both pedals are fitted with solid supports made from steel and can be folded sideways.
- Access to operating position on both sides.



## Reliability and access

### Easy access to maintenance points

- A large engine bonnet allows quick access for main components.
- Left side protection in steel easily removable (access to filter).



# safety

## Safety for the operator

- Safety lever to lock the main functions of the machine.
- Safety bar on the front part of the machine.
- Large cast iron counterweight to protect the rear of the machine.
- Working lamp on the boom.

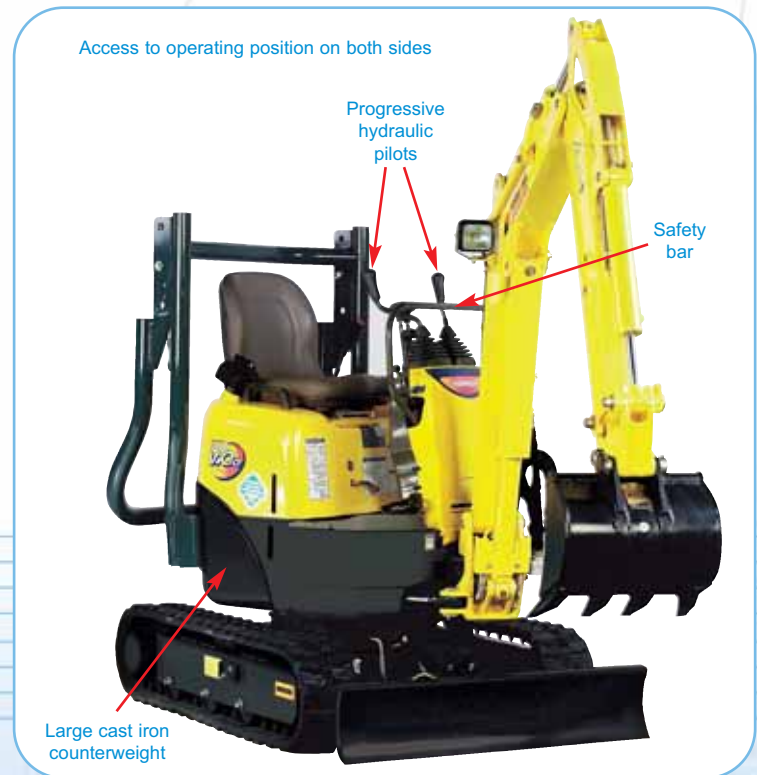
## ROPS protective frame

- Roll Over Protective Structure.
- Retractable seat belt.
- Can be folded rearwards, allowing the machine to travel under low overhead heights.



4560

3150



# accessibility

Perfect protection on blade cylinder



Hydraulic hoses pass in the center of the upper frame : perfect protection and no twisting



Careful routing of hydraulic pipes and hoses



Perfect protection on boom cylinder





# TECHNICAL SPEC I

## Engine

Yanmar Diesel 3 cylinders ..... 3TNV70-WBVB  
 Rated Output (DIN 6270B) ..... 9.2 kw/12.5 HP/2000 rpm  
 Displacement ..... 854 cm<sup>3</sup>  
 Max. torque ..... 52 N.m./1600 rpm

## Hydraulic circuit

System capacity ..... 14.3 l  
 Max. pressure ..... 210 bar  
 Variable flow dual piston pump ..... 2 x 11 l/mn

## Performances

Travelling speed ..... 2.1 km/h      Grade ability ..... 30°  
 Swing speed ..... 10 rpm      Shoe width ..... 180 mm  
 Digging force (arm/bucket) ..... 570/1400 kgf      Ground clearance ..... 140 mm  
 Boom swing (L/R) ..... 50°/90°      Blade (width x height) ..... 830/1000 x 220 mm  
 Ground pressure ..... 0.28 kg/cm<sup>2</sup>



## Miscellaneous

Fuel tank ..... 12 l  
 Cooling system ..... 2.5 l  
 Transport dimensions (L x w x h) ..... 3040 x 1000 x 1420 mm  
 Noise level LwA (2000/14/EC & 2005/88/EC) ..... 90 dBA\*

\*provisional data



## Optional equipment

Special paint  
 Standard buckets  
 Ditch cleaning buckets  
 Swivelling buckets



PTO	Theoretical data	
	Pressure	2000 rpm
	0 ~ 210 bar	22 ~ 13 l/mn
	0 ~ 210 bar	22 ~ 13 l/mn



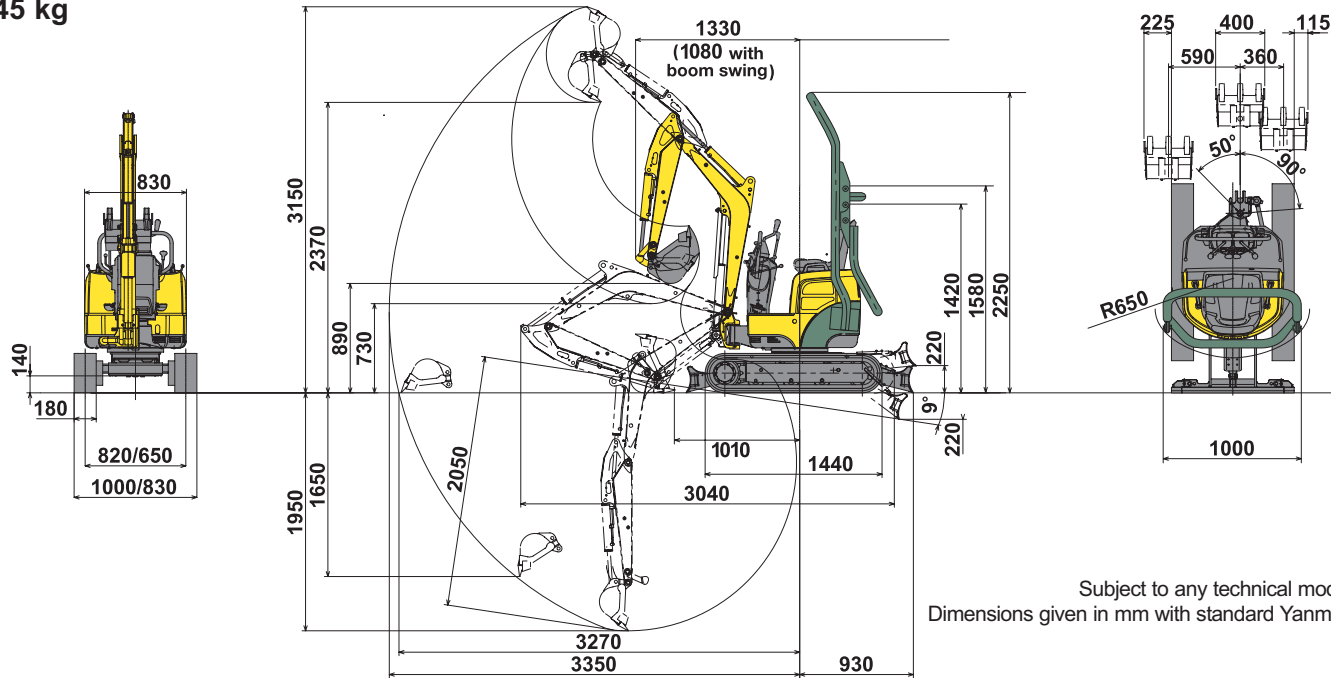
• The output reduces as the pressure increases.

# IFICATIONS



Operating weight  $\pm 2\%$  :

1245 kg



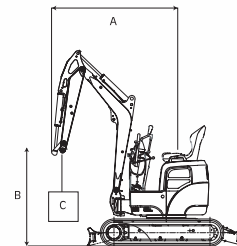
Subject to any technical modifications.  
Dimensions given in mm with standard Yanmar bucket.

## Blade on ground


A	Maxi		2.5 m			2.0 m			1.5 m			C	
	N	W	N	W	Icon	N	W	Icon	N	W	Icon		
2.4	115	*180	*185	-	-	-	-	-	-	-	-	C	
2.0	80	115	*190	-	-	-	-	-	-	-	-		
1.5	55	90	*195	80	115	*200	-	-	-	-	-		
1.0	50	80	*200	71	105	*220	115	160	*220	-	-		
0.5	50	75	*220	70	100	*255	100	150	*320	160	235		*515
0	50	75	*235	65	100	*285	100	145	*385	140	200		*620
-0.5	55	85	*250	65	95	*290	95	130	*395	155	215		*640
-1.0	75	110	*270	-	-	-	95	140	*350	155	220		*585

Machine with rubber crawlers, bucket of 20 kg (400 mm).

- A : Overhang from rotational axis (m).
- B : Height of hooking point (m).
- C : Safe working load (kg).
- N : Retracted undercarriage.
- W : Extended undercarriage.



  
 Tipping load, rating over front

  
 Tipping load, rating over side 90°

## Blade above ground

A	Maxi		2.5 m			2.0 m			1.5 m			C	
	N	W	N	W	Icon	N	W	Icon	N	W	Icon		
2.4	115	*180	*185	-	-	-	-	-	-	-	-	C	
2.0	80	115	140	-	-	-	-	-	-	-	-		
1.5	55	90	115	80	115	145	-	-	-	-	-		
1.0	50	80	95	71	105	155	115	160	*220	-	-		
0.5	50	75	105	70	100	130	100	150	200	160	235		305
0	50	75	100	65	100	115	100	145	190	140	200		285
-0.5	55	85	120	65	95	130	95	130	185	155	215		305
-1.0	75	110	145	-	-	-	95	140	185	155	220		305

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.