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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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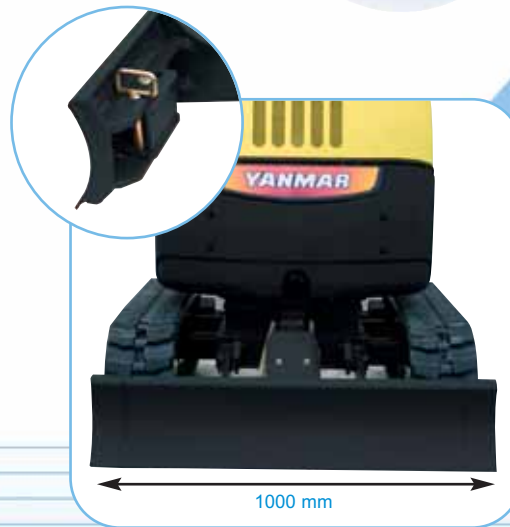


Zero Tail Swing

Yanmar, inven to
of the ZTS m in

Design principles

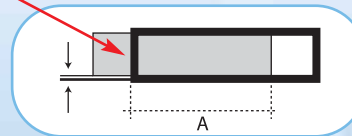
- The ViO10-2A is a real Zero Tail Swing machine :
 - extended undercarriage, neither the counterweight nor the front part of the upper frame exceed the width of the crawlers ;
 - retracted undercarriage, the rear of the machine only exceeds 85 mm.
- Compact dimensions :
 - front swing radius with boom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



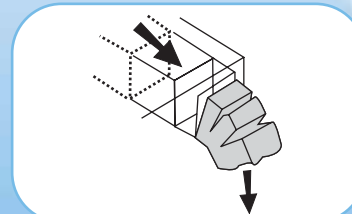
Extendable undercarriage of unique conception

- 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



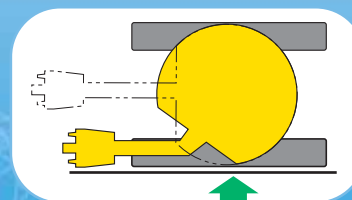
Small play due to long overlap (A)



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

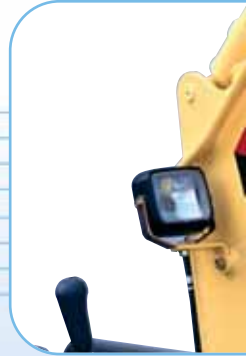


...tor and leader ...ini-excavators

Comfort and safety

Ergonomic pilot system

- Progressive hydraulic pilot system for more precision.
- Separate pedals for the 3rd 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.

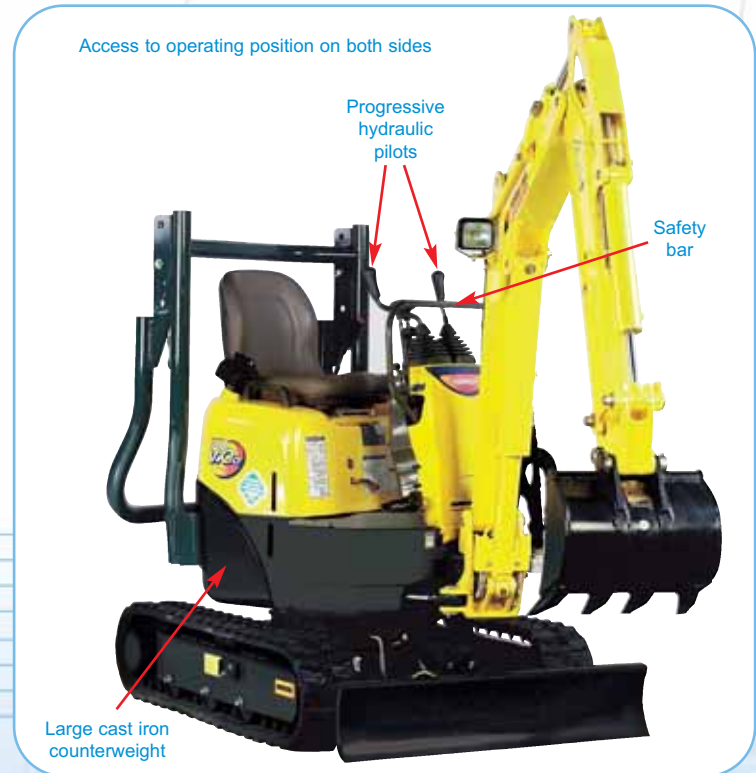
ROPS protective frame

- 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 SPECI

Engine

Yanmar Diesel 3 cylinders 3TNV70-WBVB
 Rated Output (DIN 6270B) 9.2 kw/12.5 HP/2000 rpm
 Displacement 854 cm³
 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/cm²



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



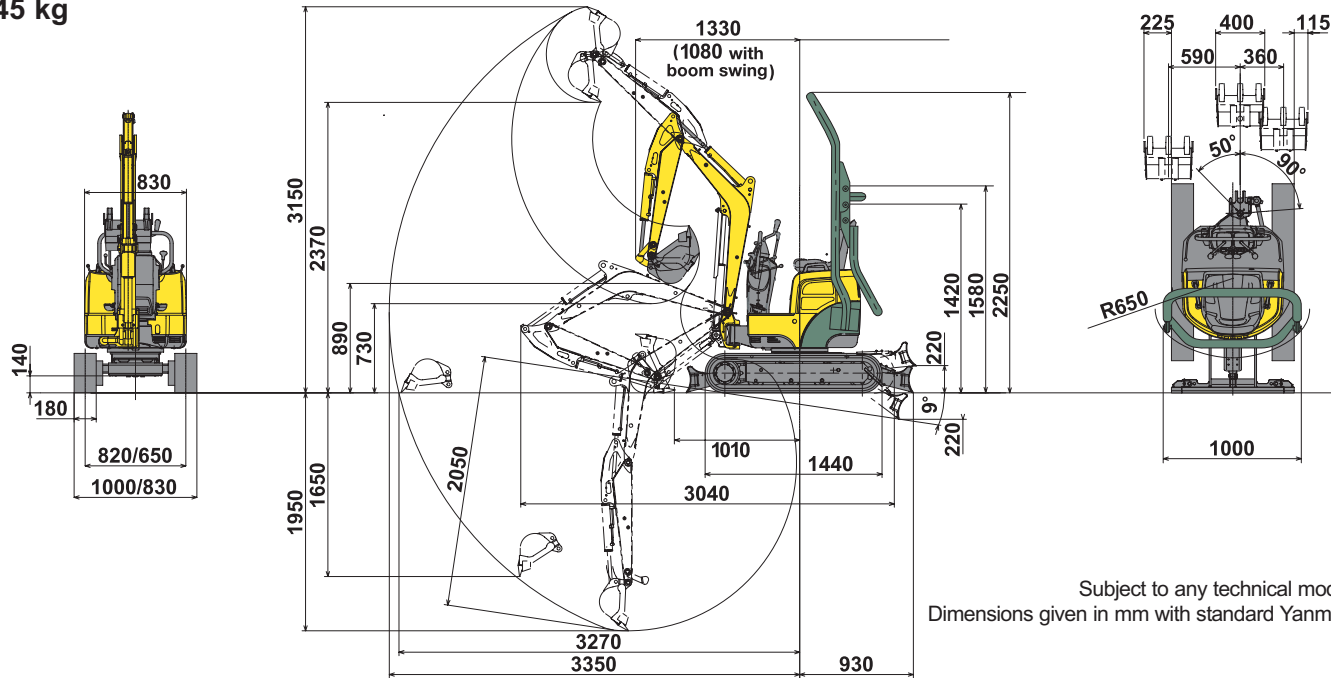
• The output reduces as the pressure increases.

IFICATIONS



Operating weight $\pm 2\%$:

1245 kg



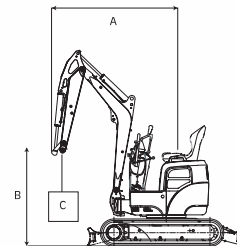
Subject to any technical modifications.
Dimensions given in mm with standard Yanmar bucket.

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	Icon	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.