YANMAR
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Universal ViO33

Mini-excavator ViO33U

Operating weight: 3270/3425 kg
Arm digging force: 1755 kgf
Bucket digging force: 3100 kgf

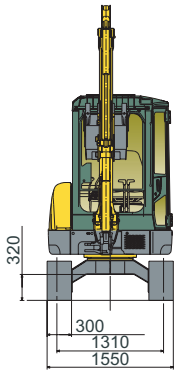
Yanmar, inventor and leader of the ZTS mini-excavators.

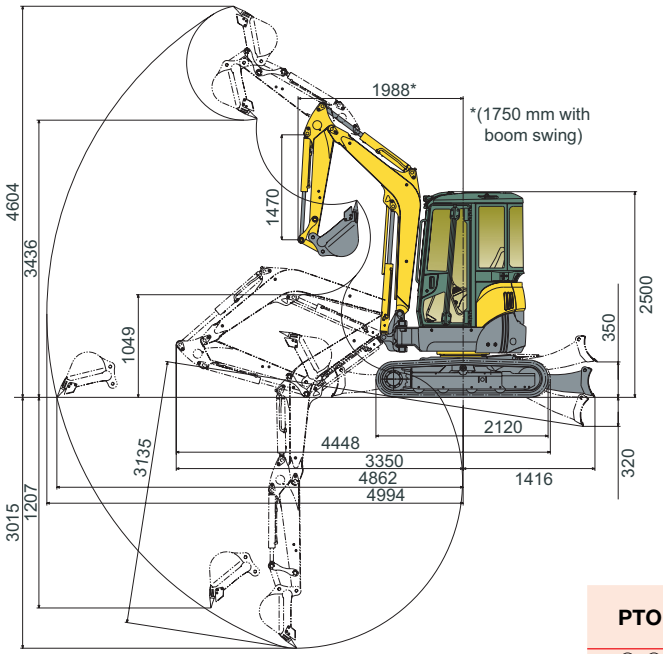
- 4th generation of ViO machines. Real Zero Tail Swing machine: the front part of the upper frame doesn't exceed the width of the crawlers.
- Possibility to work along a wall. Maximum safety and productivity for the operator.
- Cabin in compliance with safety norms: ROPS (Roll Over Protective Structure), FOPS 1 (Falling Object Protective Structure) and TOPS (Tip-Over Protective Structure). Battery isolator.
- Cylinders completely protected (rod and cylinder) by highly elastic steel plates to resist any possible shocks.
- Careful routing and protection of the hydraulic pipes on the boom and on the right side of the machine. You can remove the step to access the sockets and change the equipment pipes.
- Layout of the counterweight designed to protect the side panels against any possible shock. Additional moulded parts at the left and right outer corners of the upper frame, improving shock resistance.
- Integrated working lamp.
- The combined use of a large counterweight and of asymmetric crawlers (VICTAS® system) with an excellent mass repartition ensures a great stability and one the best lifting strengths among the machines of this weight category. This decreases vibrations, noise and crawlers damages.
- New-generation Yanmar engine which exceeds the most stringent emissions standards.
- "VIPPS®" hydraulic circuit (ViO Progressive 3 Pumps System) fitted with a variable flow dual piston pump and a gear pump: higher precision and possibility to combine various working movements (boom, arm, upper frame).
- Perfect combination of the Yanmar engine and the hydraulic system for reduced fuel consumption.
- Spacious operating position, suspension seat, ergonomic armrests and pilot system: reduced operator fatigue.
- Easy access to all maintenance points: engine components, filters, pressure plugs, hydraulic pumps...

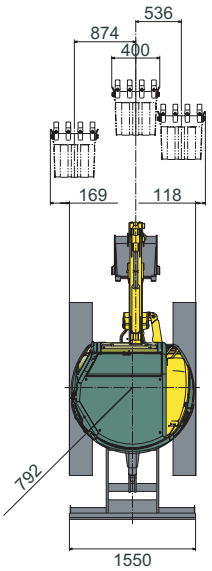
TECHNICAL SPECIFICATIONS

Operating weight +-2% (EC Norms):
3270/3320 kg (rubber crawlers/steel crawlers with canopy)
3375/3425 kg (rubber crawlers/steel crawlers with cabin)

Transport weight +-2% (EC Norms):
3195/3245 kg (rubber crawlers/steel crawlers with canopy)
3300/3350 kg (rubber crawlers/steel crawlers with cabin)







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

PTO	Theoretical Data	
	Pressure	2500 rpm
	0 ~ 200 bar	59 ~ 34,5 l/mn
	0 ~ 200 bar	59 ~ 34,5 l/mn

⚠ • The output reduces as the pressure increases.

		ViO33U
3-cylinder Yanmar engine	Type	3TNV82-ANBV2A
	Rated output (DIN 6270B)	18.1 kw/24.6 HP/2500 rpm
	Displacement	1330 cm^3
	Max. torque	86.1 N.m./1500 rpm
Hydraulic circuit	System capacity	60 l
	Max. pressure	210 bar
	2 variable displacement piston pumps	2 x 37.5 l/mn
	1 fixed displacement piston pump	21.5 l/mn
	1 gear pump	12.4 l/mn
Performances	Travelling speed	2.7/4.5 km/h
	Swing speed	10 rpm
	Digging force (arm)	1755 kgf
	Digging force (bucket)	3100 kgf
	Grade ability	30°
Undercarriage	Ground pressure	0.300/0.310 kg/cm^2
	Shoe width	300 mm
	Ground clearance	320 mm
	Blade (width x height)	1550 x 320 mm
Miscellaneous	Fuel tank	39 l
	Cooling system	5.5 l
	Transport dimensions (L x w x h)	4448 x 1550 x 2500 mm
	Noise level (2000/14/EC & 2005/88/EC)	81 dBA (LpA) 93 dBA (LwA)
Optional equipments	Special paint Standard, ditch cleaning and swivelling buckets Safety device for loading 4th circuit Hydraulic Hammer Hydraulic quick coupler	Anti-start system and Anti-theft device 3rd circuit with proportional command Additional counterweight Radio

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 without bucket. Data marked * are the hydraulic limits of the lifting power.

Machine with cabin, rubber crawlers, without bucket.

A: Overhang from rational axis (m).
B: Height of hooking point (m).
C: Safe working load (kg).

Tipping load, rating over front

Tipping load, rating over side 90°

Blade on ground

A	Maxi		3.5		3.0		2.5		2.0		
B											
3.0	-	-	420	*600	*530	*530	-	-	-	-	
2.5	350	*620	430	*590	*550	*550	-	-	-	-	
2.0	320	*630	435	*620	*620	*620	-	-	-	-	
1.0	290	*670	380	*730	510	*820	640	*1000	945	*1400	C
0	290	*720	350	*800	450	*1000	585	*1250	790	*1830	
-1.0	-	-	340	*780	460	*1020	530	*1200	870	*1700	
-1.5	-	-	-	-	450	*830	525	*1100	820	*1550	
-2.0	-	-	-	-	-	-	550	*810	790	*1250	

Blade above ground

A	Maxi		3.5		3.0		2.5		2.0		
B											
3.0	-	-	410	465	*530	440	-	-	-	-	
2.5	345	410	420	430	*560	465	-	-	-	-	
2.0	320	320	430	420	*610	510	-	-	-	-	
1.0	280	330	375	410	500	510	640	710	930	1010	C
0	290	315	350	350	450	500	585	580	790	870	
-1.0	-	-	330	330	560	470	530	540	840	900	
-1.5	-	-	-	-	430	430	510	545	650	680	
-2.0	-	-	-	-	-	-	540	520	770	870	

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