YANMAR
Solutioneering Together

Universal ViO38

Mini-excavator ViO38U

Operating weight: 3750/3965 kg

Arm digging force: 1820 kgf

Bucket digging force: 3300 kgf

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

> 4th generation of ViO machines. Real Zero Tail Swing machine: neither the counterweight nor the front part of the upper frame 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).The third circuit of the hydraulic system is proportional in standard.

> 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.

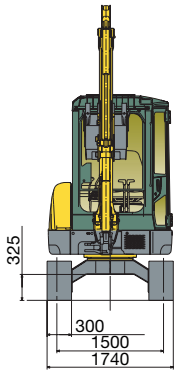
> Easy access to all maintenance points: engine components, filters, pressure plugs, hydraulic pumps...

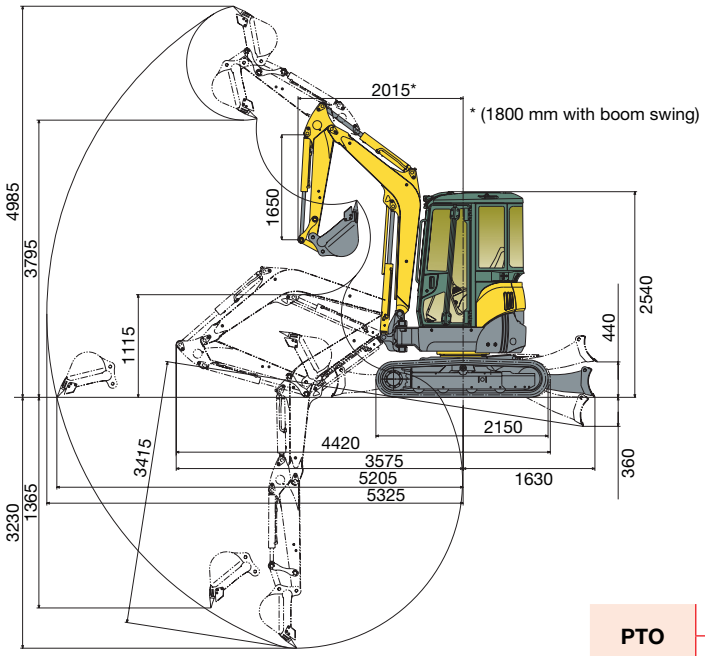
TECHNICAL SPECIFICATIONS

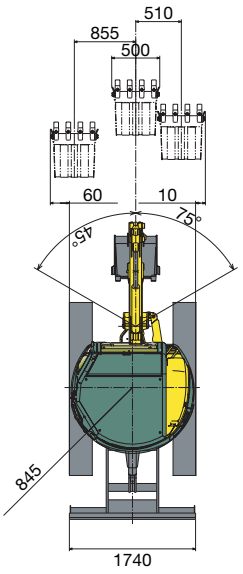
Universal ViO38

Operating weight +-2% (EC Norms):
> 3750/3885 kg (rubber crawlers with canopy/cabin)
> 3830/3965 kg (steel crawlers with canopy/cabin)

Transport weight +-2% (EC Norms):
> 3675/3810 kg (rubber crawlers with canopy/cabin)
> 3755/3890 kg (steel crawlers with canopy/cabin)







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

PTO	Theoretical Data	
	Pressure	2500 rpm
	0 ~ 210 bar	68.5 ~ 38.5 l/mn
	0 ~ 210 bar	68.5 ~ 38.5 l/mn

• The output reduces as the pressure increases.

		ViO38U
3-cylinder Yanmar engine	Type	3TNV88 BQBVA
	Rated output (DIN 6270B)	20.9 kw/28.4 HP/2300 rpm
	Displacement	1642 cm³
	Max. Torque	107.4 N.m./1200 rpm
Hydraulic circuit	System capacity	60 l
	Max. pressure	225 bar
	2 variable displacement piston pumps	2 x 38.6 l/mn
	1 gear pump	27.3 l/mn
	1 gear pump	11.3 l/mn
Performances	Travelling speed	2.7/4.6 km/h
	Swing speed	10 rpm
	Digging force (arm)	1820 kgf
	Digging force (bucket)	3300 kgf
	Grade ability	30°
Undercarriage	Ground pressure	0.350/0.370 kg/cm²
	Shoe width	300 mm
	Ground clearance	325 mm
	Blade (width x height)	1740 x 320 mm
Miscellaneous	Fuel tank	39 l
	Cooling system	3.5 l
	Transport dimensions (L x w x h)	4420 x 1740 x 2540 mm
	Noise level (2000/14/EC & 2005/88/EC)	82 dBA (LpA) 95 dBA (LwA)
Optional equipments	4th hydraulic circuit	Air conditioning
	Safety device for loading + Overloading warning device + Loading ring on bucket link	Radio
		Yanmar hydraulic quick hitch
		Special paint
	Anti-theft device (with keyboard / with key)	Standard, ditch cleaning and swivelling buckets
	Quick coupler	Hydraulic hammers
	2 additional working lights on cabin	

The data contained in these tables represent the lifting capacity in accordance with ISO standard 10567. They do not 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.

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											
3.5	*500	*650	*560	*650	*550	*620	*480	*550	-	-	
3.0	500	*635	500	635	*560	*620	*482	*550	-	-	
2.0	410	*650	500	*660	*660	*700	*710	*600	-	*670	
1.0	370	*660	480	*740	620	*820	740	*970	1000	*1190	
0	370	*680	470	810	560	990	680	1110	930	*1500	C
-1.0	410	*710	450	*710	560	*920	670	*1110	900	*1630	
-2.0	540	*720	-	-	550	*720	680	*840	850	*1130	
-2.5	-	-	-	-	-	-	-	-	*910	*780	

Blade above ground

A	Maxi		3.5		3.0		2.5		2.0		
B											
3.5	*500	*620	*560	*620	*550	*590	*480	*550	-	-	
3.0	500	470	500	475	*560	*580	*482	*550	-	-	
2.0	410	390	500	450	*660	*640	*710	*600	-	620	
1.0	370	345	480	350	620	480	740	615	1000	750	
0	370	320	470	360	560	530	680	560	930	770	C
-1.0	410	390	450	315	560	420	670	520	900	760	
-2.0	540	470	-	-	550	470	680	500	850	660	
-2.5	-	-	-	-	-	-	-	-	*910	630	

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Call for Yanmar solutions

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