

ViO33-6



CIVIL ENGINEERING



AGRICULTURE



CONSTRUCTION



LANDSCAPING

Type	Zero Tail
Operating Weight	3275 kg
Width	1550 mm
Digging Depth	2820 - 3070 mm

The ViO33-6 is designed to provide you with true peace of mind, especially in urban environments where space is limited. As a true zero tail swing machine with a low swing radius, it offers exceptional safety benefits, while advanced ergonomics ensure operator comfort as well. It provides outstanding performance, even while greatly reducing fuel consumption and emissions. Other advantages include a ViPPS hydraulic system for balanced smoothness, plus a unique protection system to prolong its working life.

Specifications		ViO33-6
Weight	Transport weight	3080 kg (canopy) / 3200 kg (cabin)
	Operating Weight	3155 kg (canopy) / 3275 kg (cabin)
Engine	Type	3TNV88-ESBV
	Fuel	Diesel
	Net Power	18.5 kW / 24.8 HP at 2200 rpm
	Gross Power	18.9 kW / 25.3 HP at 2200 rpm
	Displacement	1.642 l
	Max Torque	85.5 – 94.5 N.m
	Starter	12 V - 1.7 kW
	Battery	12 V – 65 Ah
	Alternator	12 V – 55 A
Hydraulic System	Maximum Pressure	210 bars
	Working Pump	2 double piston pump with variable flow / 1 gear pump / 1 gear pump for pilot line
	Max Flow	2 x 37.4 l/min / 20.9 l/min / 9.9 l/min
	Hydraulic Tank	40 l
Performance	Travel speed	2.7 / 4.5 km/h
	Rotation Speed	10.5 rpm
	Digging Force (arm)	16.1 kN
	Digging Force (bucket)	29.9 kN
	Traction Force	n/a
	Noise level (2000/14/CE & 2005/88/CE)	Lwag: 94 dBA ; Lpag: 81 dBA
	Fuel Tank	41 l



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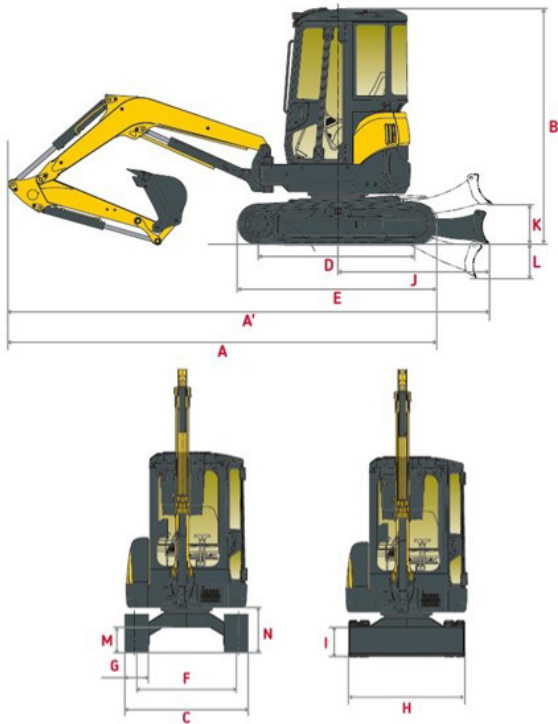


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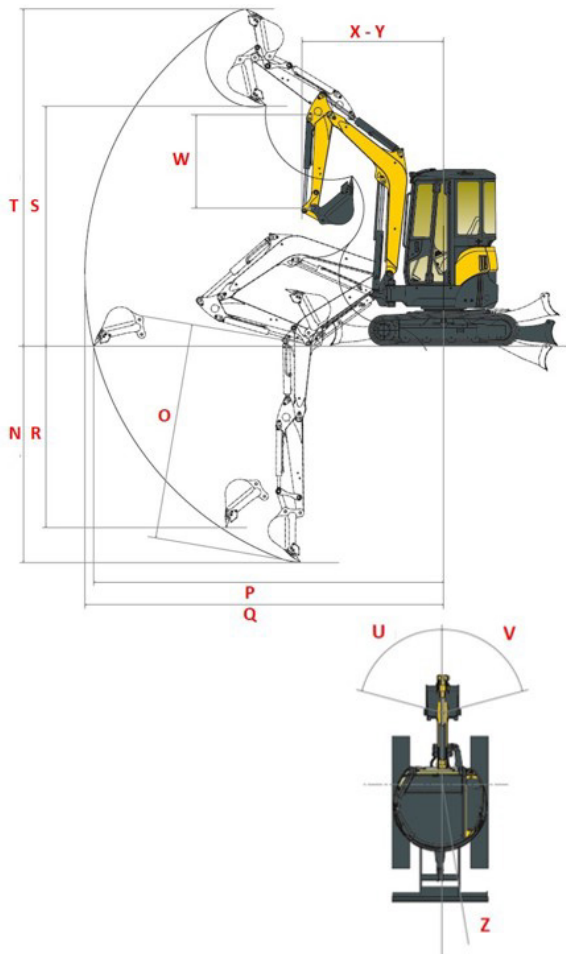


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Dimensions



Dimensions		ViO33-6
A	Overall length	4470 / 4510 * mm
B	Overall height	2460 mm
C	Overall width	1550 mm
D	Length of track on ground	1710 mm
E	Undercarriage length	2160 mm
F	Lane	1250 mm
G	Track width	300 mm
H	Overall blade width	1550 mm
I	Overall blade height	330 mm
J	Blade distance	1480 mm
K	Max. blade height above the ground	375 mm
L	Max. lowering blade depth	325 mm
M	Minimum ground clearance	320 mm



Dimensions		ViO33-6
N	Max. digging depth - Blade lifted	2820 / 3070 * mm
O	Max. digging depth - Blade lowered	2950 / 3190 * mm
P	Max. digging reach on ground	4730 / 4980 * mm
Q	Max. digging reach	4870 / 5110 * mm
R	Max vertical wall	2290 / 2550 * mm
S	Max. dumping height	3160 / 3300 * mm
T	Max. cutting height	4550 / 4720 * mm
U	Boom swinging base to left	43°
V	Boom swinging base to right	65°
W	Arm length	1220 / 1470 * mm
X	Minimum front swing radius	2050 / 2120 * mm
Y	Minimum front swing radius with boom swing	1840 / 1900 * mm
Z	Rear swing radius	775 mm

*with long arm



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Features



COMPACTNESS

The ViO33-6 is a true zero tail swing machine, as neither the counterweight nor the front part of the upper frame project beyond the track width. With its front part designed not to protrude, it has a very small turning radius. In addition, it has a swing radius of just 2,615 mm. All this means that safety for both the operator and other on-site workers is enhanced, especially as the rear blind spot has been reduced to a minimum. This makes it ideal for working along walls and in urban environments where space is limited.



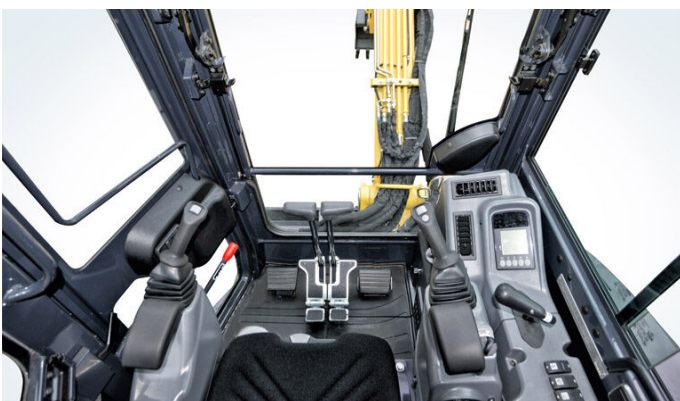
ELECTRONICALLY CONTROLLED ENGINE

With an output of 18.9 kW at 2,200 rpm, Yanmar's 3TNV88-ES-BV engine is the result of our continuous efforts to achieve technological advances in fuel consumption and emissions. With the ViO33-6, Yanmar gives further priority to economy and the environment, via features such as an engine control unit that optimises the engine loading. There's also an auto-deceleration system as standard that sets the engine to idle if the operator doesn't touch the operating levers for four seconds. In addition, eco-mode effectively controls the engine speed, reducing it by 300 rpm, further lowering fuel consumption.



SMOOTH AND SIMULTANEOUS MOVEMENT

The ViO33-6 uses a ViPPS hydraulic system to obtain the optimal combination in terms of speed, power, smoothness and balance. The system configuration uses a double, variable displacement piston pump, plus two gear pumps. These three main pumps totalise a maximum flow of 95,7 l/min, available for main operating movements, cumulated in the main control valves. The ViPPS system thereby maximises efficiency by allowing smooth and simultaneous performance across all operations, even while travelling.



ADVANCED COMFORT

The large and luxurious cabin has a generously sized entrance door and plenty of legroom. It features as standard a fully adjustable air suspension seat with headrest to reduce body tension and fatigue. Other nice touches include an adjustable wrist rest and translation lever with folding pedals to allow more operator space. Three rear view mirrors aid 360-degree visibility, while new electronic instrumentation, improved ergonomics and optional air conditioning all further contribute towards operator comfort.



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Features



EASY OPERATION

The ViO33-6 includes an auxiliary hydraulic circuit which is operated via a proportional control system located on the joystick. This adapts the overall flow and direction of the oil flow. Also making the machine easier to use is a second speed switch located on the blade lever. Control levers are ideally located for exceptional movement precision, while the boom swing benefits from proportional control via the proportional switch located on the right-hand joystick.



STABILITY

The ViO33-6 has been designed to have a very low centre of gravity, thereby ensuring excellent stability in all conditions and good lifting force. The long undercarriage also aids stability and delivers a smoother ride. Optimal mass distribution means that the loading chart of the ViO33-6 can be improved in most positions. The machine's boom has also been completely redesigned in order to boost its lifting capacity and digging performance, and to provide longer service life.



RELIABILITY

The ViO33-6 benefits from a unique and comprehensive protection system to safeguard its boom and arm cylinders. All cylinder tubes and rods are protected by a spring type steel plate, which reduces drastically the total cost of ownership of the machine. In addition, a unique Kingpost component is attached via a single bolt. This not only makes it last longer, but also reduces vibrations and ensures fewer wear gaps in a critical area of the machine.



SMARTASSIST REMOTE

SmartAssist Remote is a unique fleet management system developed by Yanmar. Available on the ViO33-6, this compact piece of equipment uses the latest telematic technology to provide optimal visibility on the location and status of your equipment. As well as aiding security and optimising maintenance scheduling, it will help you maximise your work potential. By providing real-time information, it gives you total control and lets you monitor and manage your machines remotely via a PC or smartphone.



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