

YANMAR
Engineering Solutions, Together

TRUE ZERO TAIL SWING MINI EXCAVATOR

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Universal **ViO**

ViO80

Engine Output: 54.6hp (40.7kW)



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NEW POWER.

ViO80, the best partner for you.

ViO, the next generation of small excavators, is a step ahead in every way, including ease of operation and maintenance, durability and the work performance you've been asking for, including Yanmar's original True Zero Tail Swing. The wide cabin interior and low noise are among a host of comfort factors. ViO is the perfect solution to help you work efficiently.

TRUE ZERO TAIL SWING MINI EXCAVATOR

Universal **ViC80**





CLEAN DIESEL ENGINE



TRUE ZERO TAIL SWING



QUICK COPLER



WIDE CABIN



AIR-CONDITIONER



OPERATOR CONTROL



TRUST



Advanced power that's good for the environment and saves fuel.

CLEAN DIESEL ENGINE

■ An engine to meet tough emissions regulations.

ViO comes with Yanmar's TNV direct injection diesel engine, designed for clean emissions and powerful output. With an improved fuel injection system and other enhancements, the engine meets EPA (Environmental Protection Agency) Tier 4 Interim and EC (European Commission) Stage III A emissions regulations.

With exceptionally low noise, the engine is easy on both people and the environment.



4TNV98

54.6hp/2000rpm

EPA Interim Tier 4 / EU Stage III A

■ Electronically Controlled EGR* System Reduces Air-Polluting Oxides of Nitrogen (NOx). *EGR : Exhaust Gas Recirculation

This system mixes a portion of the exhaust gases and with intake air to lower the concentration of oxygen in air intake. That drops the combustion temperature, limits NOx emissions and boosts fuel efficiency.



YANMAR Towards a Better World. World Class Original Technology from YANMAR to the World, to the Future.

YANMAR's roots are in the development and manufacture of diesel engines. YANMAR has been the world's leading manufacturer of diesel engines since it developed the world's first small diesel engine. With diesel engine at the core, YANMAR has been contributing consistently to the modernization of agriculture, fishing and industry worldwide ever since the company, founded in 1912, developed its first world-beating compact diesel engine in 1933. Our history reflects total devotion to quality and progress, and offering faith in the future of the diesel engine. The technical innovation has kept on flowering ever since, making YANMAR a constant leader in diesel engine technology. Based on original technology, we have studied the improvement of thermal efficiency and cleaner exhaust gases, and have pursued highly efficient, low emission power sources. Yanmar industrial diesel engines have a great reputation for high, enduring reliability, and clean emissions making it compliant with emissions regulations all over the world. Now, Yanmar products are popular in fields as diverse as agriculture, construction, power generation as well as commercial and pleasure marine applications.

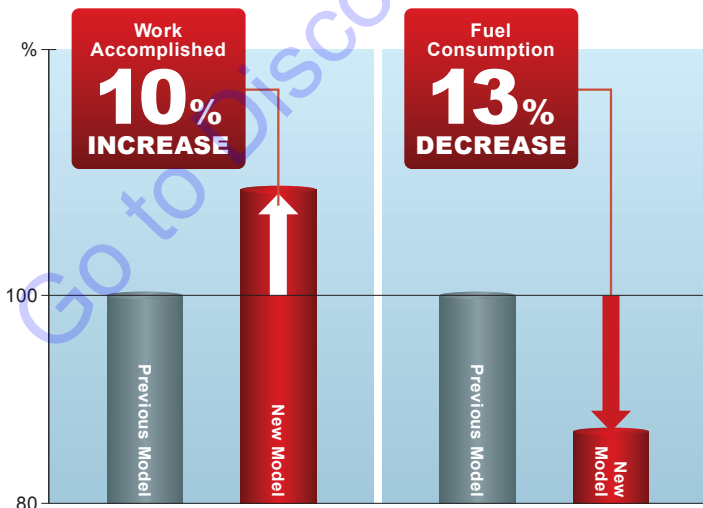
With high performance and high quality engines at the core, we are always seeking new ways to harmonize technology with the environment and trying to challenge something new hoping to help improve people's lives in the future.





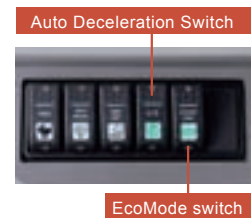
■ Electronically Controlled Engine and New Hydraulic System for More Work with Less Fuel.

The ViO80's electronic control of engine speed and torque synergizes with the new high efficiency hydraulic system to yield fast activation. This lets you do more work while greatly cutting fuel consumption.



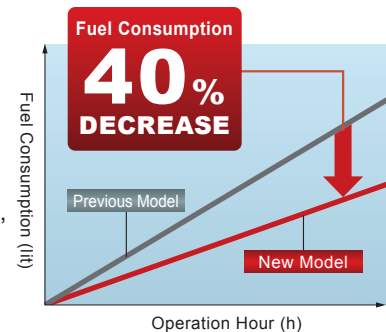
■ Auto-Deceleration Mechanism to Lower Engine Speed When Not in Operation.

After the operating lever has been in neutral for more than 4 seconds, the engine automatically goes to idle. This lowers noise and emissions in the surrounding area and improves fuel economy while the operator waits for the next dump truck. When the lever is moved again, the engine returns to its previous speed.



■ Eco-Mode Setting Vastly Lowers Fuel Consumption.

Switching to eco-mode controls engine speed efficiently while letting you use less fuel as you work. Moved again, the engine returns to its previous speed.



Advanced functions give you the efficiency you've been waiting for.

YANMAR'S ORIGINAL TRUE ZERO TAIL SWING

■ Work efficiently, without worrying about tail swing — the body will stay within the machine width. This helps reduce operator fatigue and cut work time.



- A** Min. Swing Radius — 8'11" (2,720mm)
- B** Min. Boom Swing Radius 7'9" (2,370mm)
- C** Tail Swing Radius — 3'9" (1,135mm)
- D** Track Width — 7'5" (2,270mm)

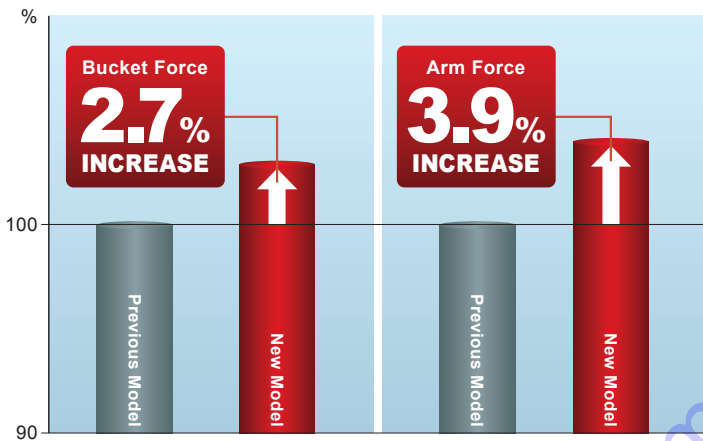


■ **More boom lifting power.**

With more relief pressure and improved boom form, the ViO offers increased lifting capacity.

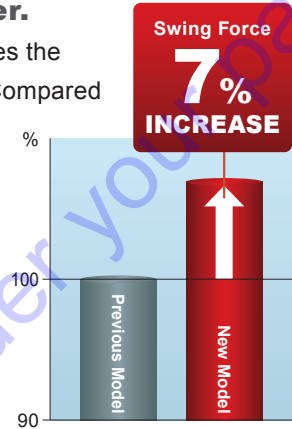
■ **More bucket / arm excavating power.**

The arm has improved form and a wider bucket cylinder size, creating greater bucket and arm excavating power. This allows you to work more powerfully. The arm fulcrum pin is also a size bigger to enhance strength and durability.



■ **Greater turning power.**

The larger turning motor increases the strength of the turning bearing. Compared to earlier models, the ViO makes it easy to do excavation and turning and pushing jobs, such as when laying main pipes. The ViO can also turn better on steep slopes and roads with its well-balanced center of gravity and firm footing.



■ **Speeds up all types of jobs.**

The bucket's hydraulic circuit has been upgraded to a junction circuit, while the boom's junction circuit has been combined more efficiently, creating an optimal hydraulic balance for boom, arm, bucket and turning. This lets you work more powerfully and quickly.

■ **An accumulator comes standard.**



Numerous improvements to increase work efficiency under all types of conditions.

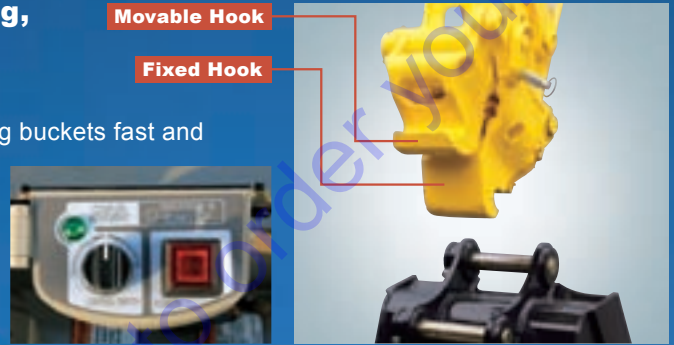
QUICK COUPLER

■ **Fast and Easy Bucket Attachment Changing, The Hydraulic Quick Coupler Makes Bucket Attachment and Removal Quick and Clean.**

The Quick Coupler makes the once troublesome task of changing buckets fast and easy without even getting your hands dirty. It's all performed by switch operation while you remain seated, except for fitting and removal of the safety lock pin. You can also use attachments made by other companies, thereby reducing storage costs and saving space.

Movable Hook

Fixed Hook



Bucket Removal



Place the bucket on the ground



Pull out the safety lock pin

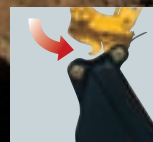


Turn the switch to Dismounting.

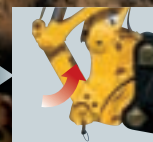


Raise the arm to detach.

Bucket Attachment



Apply the fixed hook



Make the bucket level.



Turn the switch to Mounting



Insert the safety lock pin and fasten.

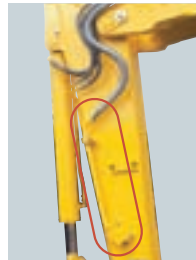
■ Improved heat balance to avoid overheating.

The oil cooler has increased capacity, which prevents overheating during long hours of usage. Changes to the P.T.O. circuit further enhance the cooling effect.

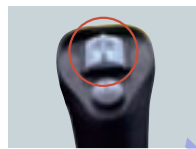
Previous Model	New Model	Oil Cooler Capacity
10,000 kal	15,100 kal	51% INCREASE

■ Hydraulic tank has increased capacity.

Previous Model	New Model
57.0ℓ	60.0ℓ



■ Hydraulic PTO Plumbing, supplied as Standard Equipment, for Working with a Variety of Attachments.



■ Proportional control P.T.O. lever lets you freely adjust attachment speed.

Night Work

■ Bright Front Lights Improve Visibility and Give You Better Night Work Performance

Two front lights on top of the cabin come as standard equipment. With wide-angle front visibility, you can work with confidence at evening and night without sacrificing efficiency and precision.

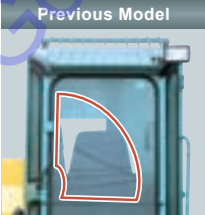
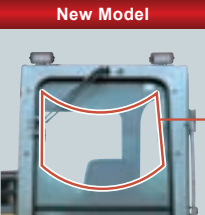


Work lamp built into lower part of boom, where it is protected from breaking



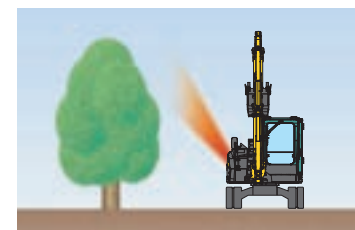
■ High-Coverage Wiper Assures a Wide Field of Vision in Rainy Weather.

The new wiper wipes 53% more surface area than in the previous model. By removing water drops and mud splatters from a wide area of the front glass, the wiper quickly opens up a wide range of clear vision in front.

Previous Model	New Model	Wiper wiping Surface Area
		53% INCREASE

■ Upward Blower Designed to Protect Workers, Landscaping.

The VI080's upward blower grill ventilates at an upward angle, keeping hot exhaust away from surrounding workers and landscaping.



■ Fuel tank has increased capacity.

Previous Model	New Model
100.0ℓ	115.0ℓ

Wide cabin space for operator comfort.

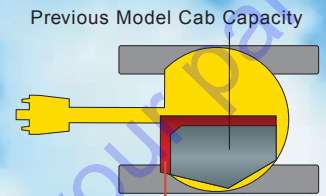
WIDE CABIN

Large, Comfortable Cabin Ensures Plenty of Operating Space.

Wider than previous models, the ViO80 cabin offers lots of elbow room. The front field of vision has also increased greatly, and the front glass slides up and down for easy

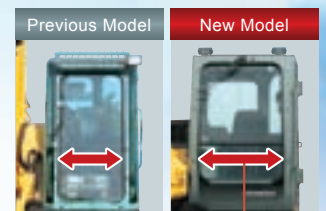


communication with others on the outside. Generous leg room lets you work in comfort, and entrances are wide enough to get in and out easily.



Previous Model Cab Capacity

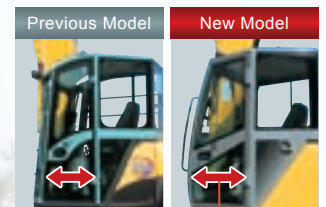
Cab Capacity
40% INCREASE



Previous Model

New Model

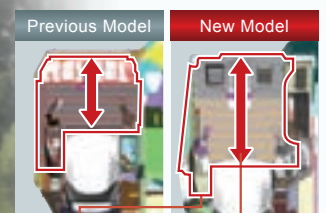
Cab Width
6" (160 mm) INCREASE



Previous Model

New Model

Entrance
4" (100 mm) INCREASE



Previous Model

New Model

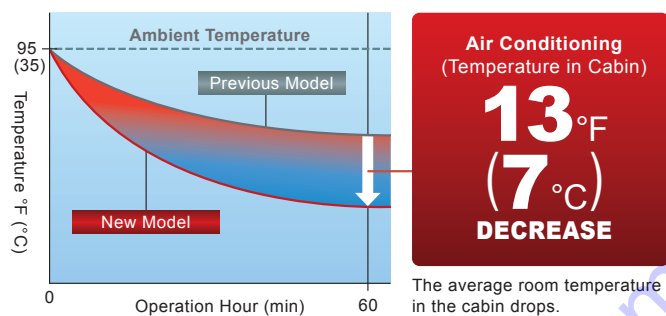
Leg Room Area
30% INCREASE

Leg Room
8" (200 mm) INCREASE

Air-Conditioner

Enhanced Air Conditioning Performance, Highly Improved Cooling Over Earlier Model.

The ViO80's air conditioner lets you work all seasons at a comfortable temperature. Changing the blower vent position to in front of the operator and adjusting the air direction allow the system to keep the cabin 13°F (7°C) cooler than the previous model when the ambient temperature is 95°F (35°C). That creates a much cooler environment during the summer. In addition, air volume has been raised.



A / C Using Outside Air + Defroster Function Enable Comfort on the Job.



A/C Control Panel



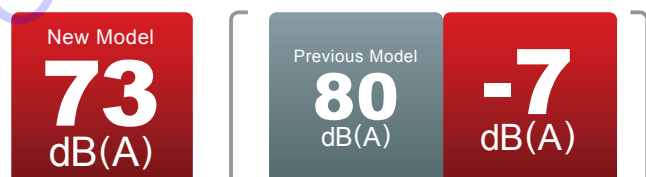
Defroster



Low-Noise CABIN

Much Quieter Cabin for Better Comfort and Work Performance.

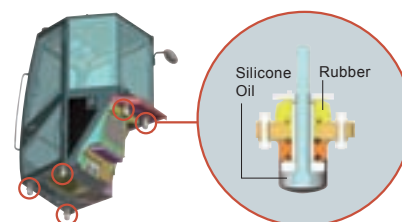
Made with a sturdy, sound-blocking advanced anti-vibration construction, the ViO80 offers a quieter environment than ever. The noise level reaching the operator is just 73 dB(A), greatly reducing fatigue over long hours of work.



Liquid-Filled Cab Anti-Vibration Mount for Excellent Sound Blocking and Comfortable Ride.

The cab mount uses anti-vibration rubber filled with silicon oil. Five-point support gently absorbs even great vibration.

This also greatly reduces cab noise and operator stress on the job.



Operate comfortably in the position that best suits you.

■ Wrist Control Levers + Adjustable Arm Rests.

Non-tiring wrist control levers are easy to grasp, and arm rests can be repositioned to meet the operator's preferences and work posture, so that even delicate control and long hours of operation are comfortable.

■ Cruising lever and pedal, blade lever and swing pedal are all hydraulic. Operation is light and smooth.

■ Large Travel Pedals are Easy to Press, Allow Confident and Reliable Work.

■ Double-Slide Seat Mechanism for Relaxed Operation.

Not just the seat, but the operating levers and seat can slide back and forth simultaneously, enabling optimal lever position and operating posture for the operator's body type.

■ Automatic Two-Speed Travel System Switches from High Travel Speed to Low when Handling Heavy Loads and Returns to High Speed when Load Lightens.



Other Equipment



External Power Socket



Cup Holder



Storage Space

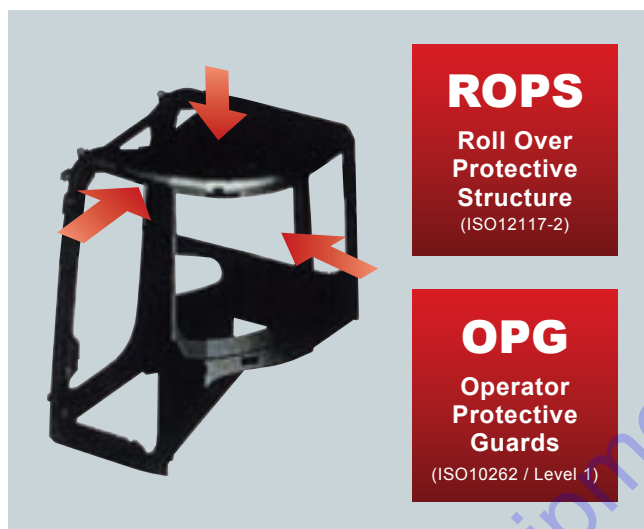


Radio Antenna + Connection Harness

Tough protective structure lets you work with greater confidence.

■ ISO-Conforming Cabin with Sharply Enhanced Rigidity for Safety and Confidence.

The cabin's use of a high-strength, high-rigidity ROPS protects operator space in the event of a roll-over. It also conforms to the OPG Level 1 standard for structures protecting the operator from falling objects. This sturdy cabin lets you work in comfort and confidence.



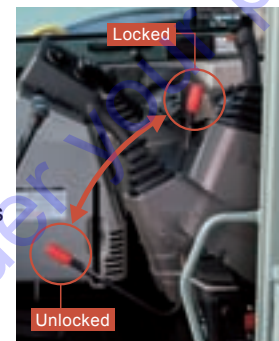
■ Front Guard / Head Guard Brackets are Standard Equipment.

Users can easily attach a front guard and head guard by bolting them on, thus increasing protection of the operator.



■ Lock Lever Includes Engine Neutral Start Mechanism to Prevent Danger of Accidental Operation.

The engine will not start unless the lock lever is completely locked, which prevents equipment from moving suddenly if the lever is accidentally operated when the engine is started.



■ Standard Equipment Retracting Seat Belt is Easy to Buckle on, Withdraws Out of The Way when It's Unbuckled.

(The ROPS protective structure assumes the operator is wearing a seatbelt)



■ The Traveling Alarm, which Comes Standard, Makes Electronic Noise to Warn Others The Machine is Moving.

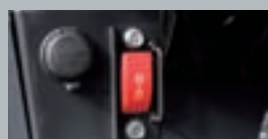
■ Standard Back and Side Mirrors Let Operator Check for Safety Around and Behind Machine and Keep Others Safe.



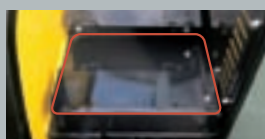
■ Track Frame Provides Handy Anchor Holes for Secure Machine Transportation.



Evacuation Hammer



Engine Stop Switch



Large tool box



Large Hand Grips

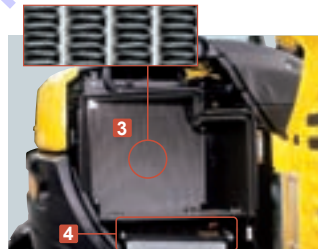
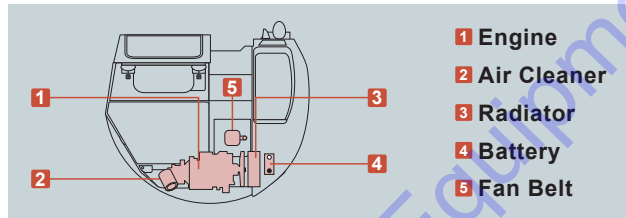
● Second spare valve

● P.T.O. direct return/
double-action switching valve

Easy day-to-day maintenance. Greater durability.

Simple Maintenance Structure for Fast and Easy Access Wherever It's Needed

Covers open easily, with no special tools needed, enabling fast and smooth checks and minimizing maintenance and cleaning time.



The right hood similarly opens wide and without tools to facilitate battery checks. It's also easy to clean the radiator, which is a wave fin style that resists clogging.



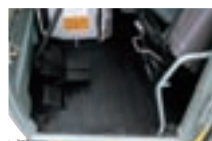
The wide-opening rear hood opens without special tools for easy checks and maintenance of the engine area and air cleaner.



Easy to adjust the fan belt and air conditioning belt.



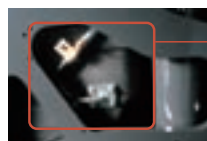
- Air conditioning filter inside the cab removes easily without tools for easy cleaning and replacement.



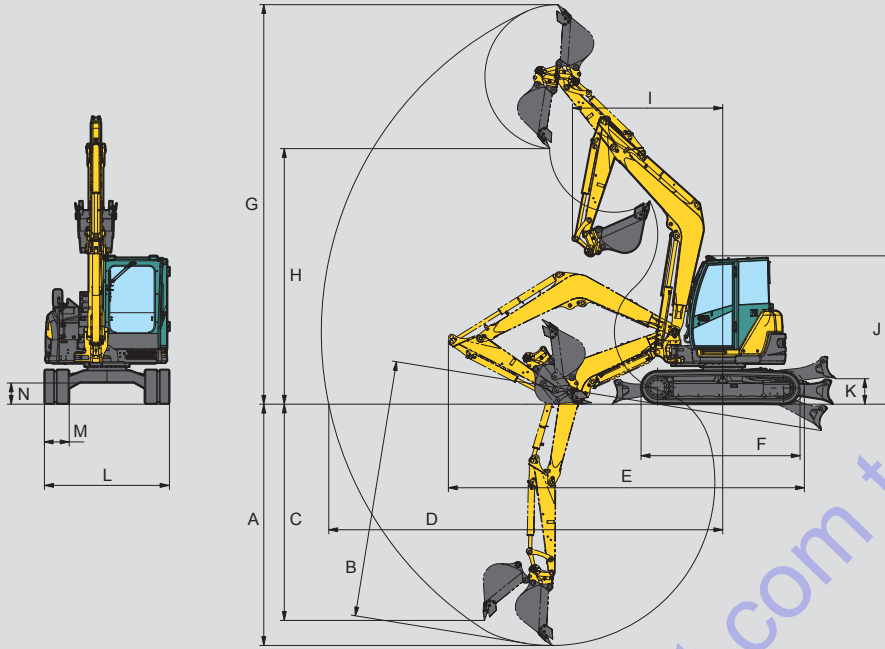
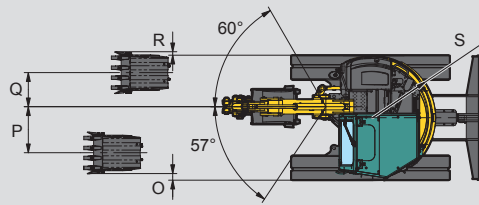
- Cab floor mats with high ends keep dust from getting under the mats and are easily washed with water.



- Iron plate hood is highly durable, makes damage repair easy.
- Underside protector is thicker for greater strength.



- The bottom of the fuel tank has a flange for easy cleaning.
- Maintenance-free hydraulic oil-lubricated reduction gears in the Travel Motor.



Dimensions Unit:ft-in (mm)

ViO80		
	Rubber Track	Steel Track
A	14'4" (4380)	14'5" (4400)
B	15'4" (4670)	15'5" (4710)
C	12'10" (3920)	13'0" (3950)
D	23'11" (7280)	
E	21'2" (6460)	
F	9'6" (2890)	
G	23'9" (7250)	
H	15'3" (4640)	15'1" (4610)
I	8'11" (2720)	
J	8'10" (2690)	8'10" (2680)
K	1'6" (450)	
L	7'5" (2270)	
M	1'6" (450)	
N	1'3" (390)	1'3" (380)
O	5" (120)	
P	2'9" (840)	
Q	2'0" (620)	
R	2" (60)	
S	3'9" (1135)	

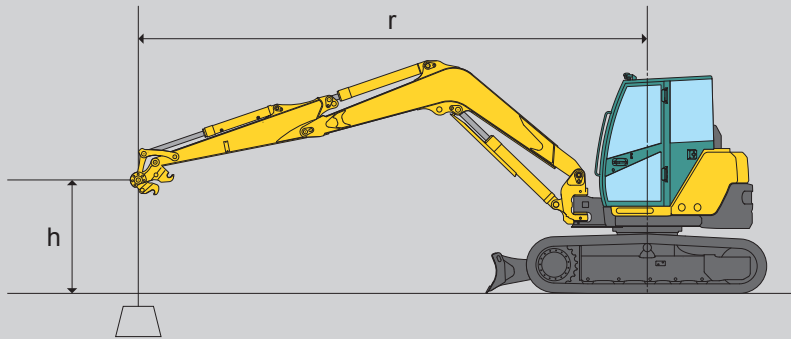
Specifications

Model		ViO80	
Type		Cab. Rubber Track	Cab. Steel Track
Operating Weight		lbs (kg)	18136 (8225) / 18268 (8285)
Engine	Type	Water-cooled 4 cycle diesel	
	Model	YANMAR 4TNV98-ZWBV1	
	Rated Output	hp (kW) / rpm	54.6 (40.7) / 2000
	Maximum Output at High Idle Speed	hp (kW) / rpm	52.7 (39.3) / 1900
Performance	Max Digging Force, Bucket / Arm	lbf (kN)	Without Quick Coupler / 15863 (72.0) / 8363 (37.2)
			With Quick Coupler / 12583 (57.1) / 8363 (37.2)
	Traveling Speed, High / Low	MPH (km / h)	2.8 (4.5) / 1.6 (2.5) / 2.6 (4.1) / 1.4 (2.3)
	Swing Speed	RPM	9.0
	Boom Swing Angle, (L / R)	degrees	57 / 60
Gradability	degrees	30	
Ground Contact Pressure		PSI (kPa)	5.2 (35.8) / 5.2 (36.2)
Hydraulic System	Pump Capacity	GPM (L / min)	18.6 (70.3) + 18.6 (70.3) + 14.0 (53.0) + 5.5 (20.9)
	Main Relief Set Pressure	PSI (MPa)	3699 (25.5) + 3699 (25.5) + 3481 (24.0) + 421 (2.9)
Blade Dimensions	Width	ft-in (mm)	7'5" (2260)
	Stroke, Raise / Lower from G.L.	ft-in (mm)	1'6" (460) / 1'7" (480) / 1'5" (440) / 1'8" (500)
Fuel tank capacity		Gals (L)	30.4 (115)

Hydraulic PTO

Model		ViO80	
Specification	Output	PSI (kPa)	GPM (L / min)
			1900RPM
Combined Flow, Double Actions		3481(24000)	31.7 (120.0) / 18.9 (71.4)

Lifting Capacity



Never allow total bucket weight to exceed excavator lift capacity.

Note where applicable specifications conform to ISO standards.

Loads shown in table include weight of standard bucket (430 lbs. [195kg])

Weight of all lifting devices and attachment must be deducted to determine load can that be lifted.

Lift point is bucket hinge point with bucket fully curled. Specifications subject to change without notice.

MODEL ViO80 EXCAVATOR Quick coupler Spec.

*Rated Hydraulic lift capacity.

LIFT POINT HEIGHT	(r) LIFT RADIUS in (mm)				(r) LIFT RADIUS in (mm)				(r) LIFT RADIUS in (mm)			
h in (mm)	RATED LIFT CAPACITY OVER END BLADE DOWN lbs (kg)				RATED LIFT CAPACITY OVER END BLADE UP lbs (kg)				RATED LIFT CAPACITY OVER SIDE BLADE UP lbs (kg)			
	MAX	196.9 (5000)	157.1 (4000)	118.1 (3000)	MAX	196.9 (5000)	157.1 (4000)	118.1 (3000)	MAX	196.9 (5000)	157.1 (4000)	118.1 (3000)
196.9 (5000)	*3638 (1650)		*3572 (1620)		*3550 (1610)		*3461 (1570)		2734 (1240)		*3550 (1610)	
157.5 (4000)	*3417 (1550)	*3417 (1550)	*3572 (1620)		2403 (1090)	2734 (1240)	*3417 (1550)		2271 (1030)	2491 (1130)	*3528 (1600)	
118.1 (3000)	*3483 (1580)	*3616 (1640)	*4233 (1920)	*5468 (2480)	2028 (920)	2668 (1210)	*4123 (1870)	*5336 (2420)	1896 (860)	2447 (1110)	*4145 (1880)	*5534 (2510)
78.7 (2000)	*3351 (1520)	*3946 (1790)	*5027 (2280)	*6879 (3120)	1830 (830)	2513 (1140)	3594 (1630)	*6174 (2800)	1697 (770)	2315 (1050)	3395 (1540)	4806 (2180)
39.4 (1000)	*3395 (1540)	*4255 (1930)	*5710 (2590)	*7651 (3470)	1764 (800)	2381 (1080)	3439 (1560)	4546 (2070)	1675 (760)	2249 (1020)	3175 (1440)	4262 (1930)
Ground (0)	*3373 (1530)	*4321 (1960)	*5865 (2660)	*8070 (3660)	1830 (830)	2337 (1060)	3307 (1500)	4873 (2210)	1719 (780)	2160 (980)	3153 (1430)	4542 (2060)
-39.4 (-1000)	*3329 (1510)	*4057 (1840)	*5468 (2480)	*7585 (3440)	2028 (920)	2315 (1050)	3285 (1490)	5137 (2330)	1918 (870)	2160 (980)	3087 (1400)	4692 (2120)
-78.7 (-2000)	*2976 (1350)		*4498 (2040)	*6218 (2820)	2491 (1130)		3373 (1530)	5292 (2400)	2425 (1100)		3197 (1450)	4972 (2250)

Standard Equipment

- Hydraulic Quick Coupler
- Blade
- Boom Swing Function
- Rubber Track / Steel Track
- Auxiliary Valve and Plumbing
- Radio Antenna and Connection Harness
- Back Mirror / Side Mirror
- 2-way Control Pattern Change
- ROPS / OPG Cabin
- Windshield Washer
- Air Conditioner
- Defroster
- Joystick Pilot Controls
- Arm Rests (Adjustable)
- Suspension and Reclining Seat
- Seat Belt
- P.T.O Switch
- Travel Automatic Dual Speed Switch
- Auto Deceleration Switch
- Eco Mode Switch
- Engine Stop Switch
- Traveling Alarm
- Floor Mats
- Evacuation Hammer

(Please note that the standard equipment may vary from this list. Consult your Yanmar dealer for confirmation)

YANMAR AMERICA CORP.
CONSTRUCTION EQUIPMENT

Note : All information presented in this Brochure is subject to change without notice.

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