YANMAR

TRUE ZERO TAIL SWING EXCAVATOR

ViO80-1

[Gross] 39.3kW <52.7HP>




YANMAR
VIO80

ViO80-1

Offers the performance of a large excavator while enjoying the benefits of mini excavator



BUILDING WITH YOU

The specifications and attachments may differ depending on the sales area / sales period.

Features of ViO80-1



Standard Boom Swing and Blade

Boom swing enables parallel digging to a wall.
Blade is useful for grading and stability.

Page 7

Hydraulic Quick Coupler YANMAR ORIGINAL

No tools required to change the attachments.
(Optional)

Page 13

Boom Cylinder Guard

To prevent cylinder rod from damage.

Page 10

LED Working Lights

Provide brighter light.

Page 10



ROPS[*1] and OPG[*2] TOP Guard (Level I) Cabin

The protective structure that meets ISO standards minimizes the damage in case of an accident.

Page 10

Back Mirror

Standard back mirror provides sufficient visibility.
Ensures safer operation on the job sites.

Page 10

SMARTASSIST Remote

Advanced fleet management system.

Page 13

YANMAR Engine YANMAR ORIGINAL

Powerful, reliable and efficient.

Page 8, 9

Auto Deceleration & Eco Mode

Efficient automatic engine deceleration.
Eco mode reduces fuel consumption by 15%.

Page 9

True zero tail swing

Ensures safer operation on the tight job sites.

Page 6

Watch the video

*1 Roll-Over Protective Structure (ROPS): A structure to protect the operator wearing a seat belt, in case the machine rolls over.
*2 Operator Protective Guard (OPG): A structure to protect the operator from falling objects.



Machine width **2270**mm

True Zero Tail Swing

YANMAR pioneered the concept of a true zero tail swing mini excavator. The upper frame doesn't extend beyond the track width, giving operator the ability to tackle jobs more safely in tighter spaces.

Operating Weight

8125kg

*Cabin and steel track type

Delivers the performance of a large excavator while keeping the benefits of a mini excavator

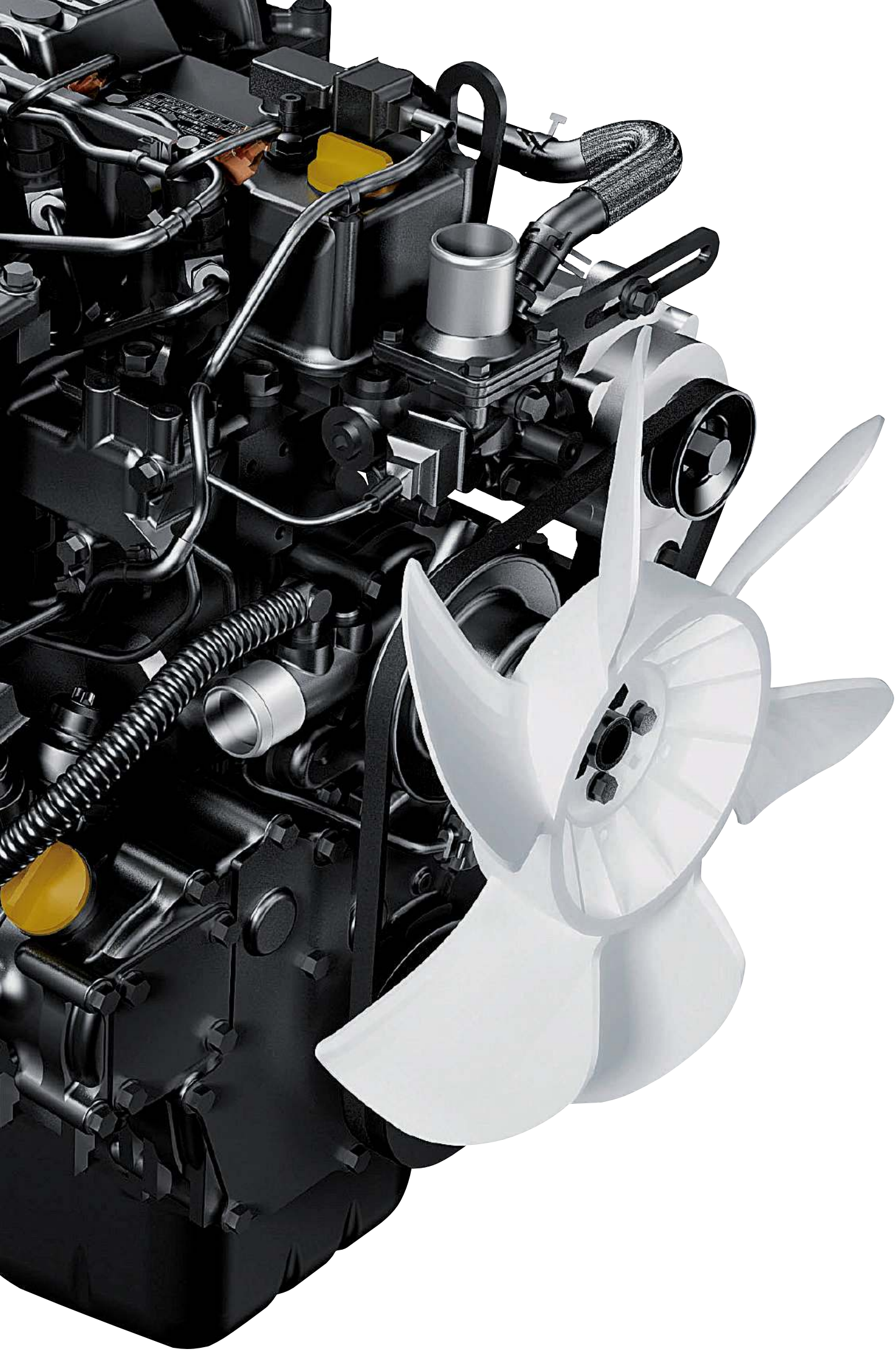


Standard Boom Swing

One of the major advantages of mini excavator over heavy excavator is a boom swing. It provides the necessary flexibility for parallel digging to obstacles.

Standard Blade

The efficient dozing can be achieved thanks to the perfectly shaped blade. It also provides an extra stability during digging and lifting.



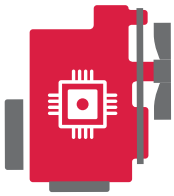
Reliable YANMAR engine designed to deliver powerful output and fuel efficiency

YANMAR Engine

Equipped with powerful and highly fuel-efficient engine.

4TNV98-Z benefits from the latest electronically controlled direct injection and the Exhaust Gas Recirculation (EGR) technologies.

Model **4TNV98-ZWBV2** Output (Gross) **39.3kW**



Isochronous Control

The ECU controller helps to maintain constant engine speed even in high loads. Enables operator to work stress-free.



Auto Deceleration

Automatically lowers the engine speed to idle when the machine stops for more than 4 seconds. Reverts to the original speed, once the operation lever is moved.



Eco Mode

Lower fuel consumption by reducing the engine speed to 90% from maximum speed.

The Exhaust Gas Recirculation (EGR)

It partially cools the exhaust gas, and by mixing with suction air and circulating it within the cylinder, lower the burning temperature inside the cylinder and decrease emission (NOx).

Enhanced safety



1 LED Working Lights

Provide brighter light for work safely and with accuracy in dark spaces.

2 Boom Cylinder Guard

To prevent cylinder rod from damage.



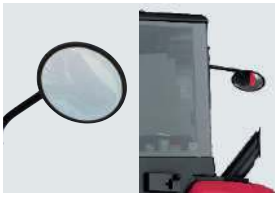
ROPS and OPG TOP Guard (Level I) Cabin

The protective structure that meets ISO standards, minimizes the damage in case of accident.



Emergency Engine Stop Switch

In case of emergency, the engine can be shut down easily with emergency switch.



Back Mirror

Standard back mirror provides sufficient visibility. Ensures safer operation on the job sites.

Comfortable operator space



1
Large LCD Monitor with LED Backlight

Easy-to-read display showing operating status and maintenance information.



2
Dial Accelerator

Fingertip control dial easy to change the engine speed.



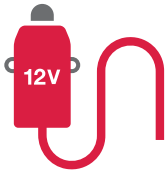
3
Ergonomically Designed Controls

Ergonomically arranged operating controls and switches are within the reach of one hand.



4
Suspension and Reclining Seat

A suspension and adjustable seat allow the operator to find their perfect working position while reducing shocks and vibrations.



5
External Power Outlet (12V)

The 12V power socket can be used for charging your cell phone and other devices.

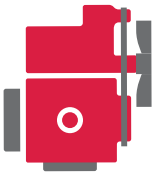


6
P.T.O. Switch and Flow Adjustment

Hydraulic P.T.O. lines can be controlled with the tip of your fingers. Ensures precise operation of attachments.



Easy maintenance



1
Engine, Air Cleaner

Wide opening of engine bonnet makes inspection and maintenance of the engine and air cleaner simple.



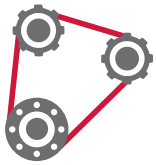
2
Hydraulic Oil Tank, Fuel Tank, Grease Pump Holder

Lockable right upper hand side bonnet provides easy access and security.



3
Radiator, Battery

No tools required to open the right-hand side bonnet, making battery inspection and cleaning the radiator an easy task.



4
Fan Belt, Air Conditioner Belt

Large inspection window for easy access.



5
Tool Box

Secure place to keep tools.



2



4



5





Watch the video

YANMAR Hydraulic Quick Coupler (Optional)

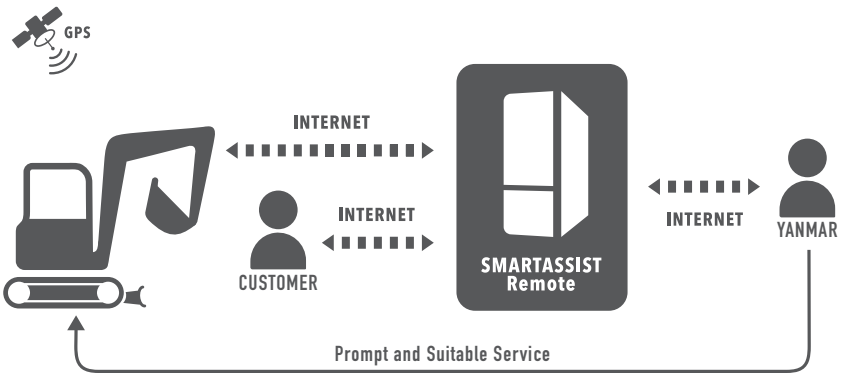
Quick coupler makes it easier and quicker than ever to change buckets and other attachments. It saves time, so operator can focus job in hand.

Some buckets and attachments may not be applicable.

P.T.O. Hydraulic Lines (Optional)

Powerful hydraulic P.T.O.1 and 2 lines are available with adjustable proportional control. Enables easy, fast and intuitive control of various attachments.

SMARTASSIST Remote



Watch the video

Our service to avoid machine downtime

SMARTASSIST Remote is a telematic system that provides sophisticated management for construction equipment equipped with a GPS transmission terminal. This system monitors construction equipment remotely and ascertains maintenance intervals and troubles in a timely manner via the Internet, which allows YANMAR to constantly provide the customers with suitable services and support.

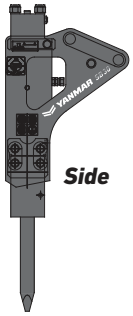
Attachments

YANMAR Hydraulic Breaker

A wide range of hydraulic breakers are available for demolition applications.
Each model delivers reliability, productivity and durability.
Refer to breaker's catalog for more information.



Product Lineup



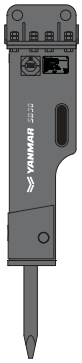
Side



Pin Mounted



Cap Mounted



Box Housing
(Silenced)

YANMAR's recommended parts

ecoY
GUARANTEED QUALITY & DURABILITY

Watch the video



ecoY **Bucket Tooth-Adapter**



ecoY **Carrier Roller**



ecoY **Idler**



ecoY **Sprocket**



ecoY **Rubber Track**

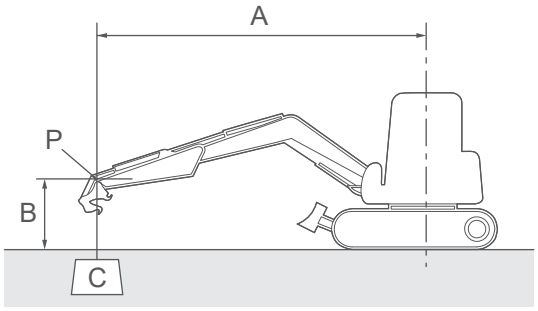


ecoY **Rubber Pad**



ecoY **Track Roller**

Lifting Capacity



With: Cabin, rubber track and quick coupler
Without: Bucket

A: Reach from swing center line [m (in.)]
B: Load point height [m (in.)]
C: Lifting load [kg (lbs.)]
P: Load point
: Rating over front
: Rating over side or 180 degrees

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

Blade on ground **Unit: kg (lbs.)**

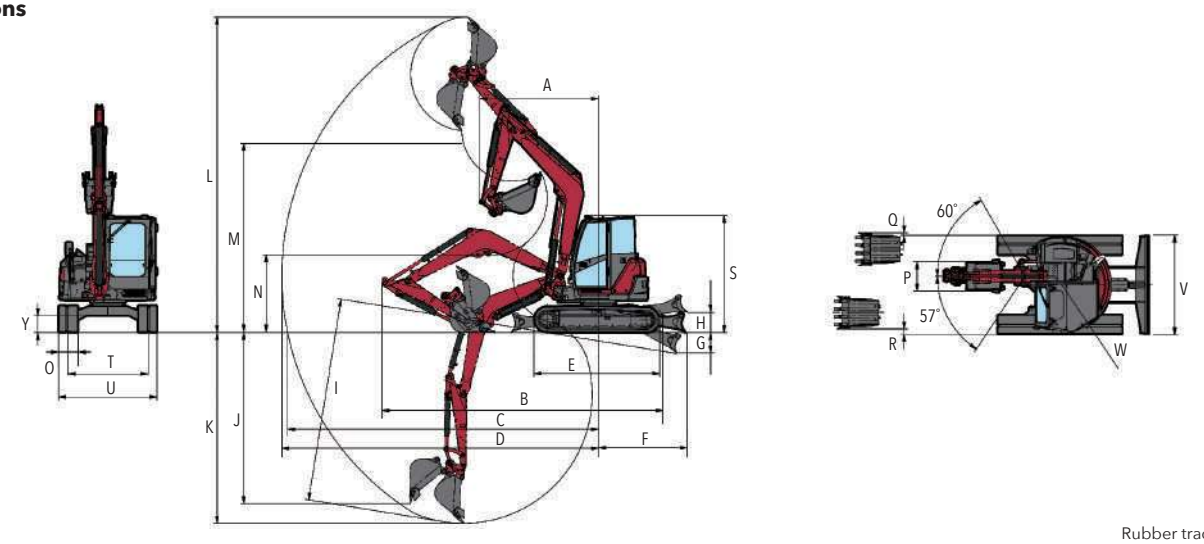
A [m (in.)]	Max.		5.0 (196.9)		4.0 (157.5)		3.0 (118.1)	
B [m (in.)]								
5.0 (196.9)	*1650 (3638)	1240 (2734)	–	–	*1620 (3572)	*1610 (3550)	–	–
4.0 (157.5)	*1550 (3417)	1040 (2293)	*1550 (3417)	1160 (2557)	*1620 (3572)	*1600 (3528)	–	–
3.0 (118.1)	*1580 (3483)	890 (1962)	*1640 (3616)	1140 (2513)	*1920 (4233)	*1890 (4167)	*2480 (5468)	*2500 (5512)
2.0 (78.7)	*1520 (3351)	790 (1741)	*1790 (3946)	1080 (2381)	*2280 (5027)	*1850 (4079)	*3120 (6879)	*2580 (5688)
1.0 (39.4)	*1540 (3395)	770 (1697)	*1930 (4255)	1040 (2293)	*2590 (5710)	*1720 (3792)	*3470 (7651)	*2300 (5071)
0 (0)	*1530 (3373)	790 (1741)	*1960 (4321)	1010 (2227)	*2660 (5865)	*1690 (3726)	*3660 (8070)	*2410 (5314)
-1.0 (-39.4)	*1510 (3329)	890 (1962)	*1840 (4057)	1010 (2227)	*2480 (5468)	*1670 (3682)	*3440 (7585)	*2550 (5622)
-2.0 (-78.7)	*1350 (2976)	1090 (2403)	–	–	*2040 (4498)	*1700 (3748)	*2820 (6218)	*2690 (5931)

Blade above ground **Unit: kg (lbs.)**

A [m (in.)]	Max.		5.0 (196.9)		4.0 (157.5)		3.0 (118.1)	
B [m (in.)]								
5.0 (196.9)	*1610 (3550)	1240 (2734)	–	–	*1570 (3461)	*1610 (3550)	–	–
4.0 (157.5)	1090 (2403)	1030 (2271)	1240 (2734)	1130 (2491)	*1550 (3417)	*1600 (3528)	–	–
3.0 (118.1)	920 (2028)	860 (1896)	1210 (2668)	1110 (2447)	*1870 (4123)	*1880 (4145)	*2420 (5336)	*2510 (5534)
2.0 (78.7)	830 (1830)	770 (1697)	1140 (2513)	1050 (2315)	1630 (3594)	1540 (3395)	*2800 (6174)	2180 (4806)
1.0 (39.4)	800 (1764)	760 (1675)	1080 (2381)	1020 (2249)	1560 (3439)	1440 (3175)	2070 (4564)	1930 (4255)
0 (0)	830 (1830)	780 (1719)	1060 (2337)	980 (2160)	1500 (3307)	1430 (3153)	2210 (4873)	2060 (4542)
-1.0 (-39.4)	920 (2028)	870 (1918)	1050 (2315)	980 (2160)	1490 (3285)	1400 (3087)	2330 (5137)	2120 (4674)
-2.0 (-78.7)	1130 (2491)	1100 (2425)	–	–	1530 (3373)	1450 (3197)	2400 (5292)	2250 (4961)

Note:
The lifting load with the asterisk (*) mark is limited by hydraulic lifting capacity rather than tipping. The lifting capacity shown in the above list is based on the ISO Standard No. 10567 and represents either 87% of hydraulic lifting capacity or 75% of tipping load, which is smaller.

●Dimensions



Rubber track specification
Unit: mm (in.)

		A <at boom swing>	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y
ViO80-1 Cabin	With quick coupler	2720 (107) <2370 (93.3)>	6460 (254)	7140 (281)	7280 (287)	2890 (114)	1990 (78.3)	480 (18.9)	460 (18.1)	4680 (184)	3940 (155)	4400 (173)	7230 (285)	4620 (182)	1750 (68.9)	450 (17.7)	750 (29.53)	60 (2.36)	120 (4.72)	2680 (106)	1870 (73.6)	2270 (89.4)	2260 (89.0)	1135 (44.7)	390 (15.4)
	Without quick coupler	2470 (97) <2130 (83.9)>	6410 (252)	6820 (269)	6960 (274)					4440 (175)	3800 (150)	4150 (163)	6790 (267)	4680 (184)	1940 (76.4)										

●Specifications

MODEL				ViO80-1	
TYPE				Cabin	
				With quick coupler	Without quick coupler
WEIGHT	Operating weight	Rubber track	kg (lbs.)	8225 (18136)	8065 (17783)
		Steel track	kg (lbs.)	8285 (18268)	8125 (17916)
ENGINE	Type			Vertical 4-cylinder water-cooled direct injection diesel engine	
	Model			4TNV98-ZWBV2	
	Rated output, gross		kW (HP) / rpm	39.3 (52.7) / 1900	
BUCKET	Capacity, standard		cu.m (cu.ft)	0.28 (9.89)	
	Width, standard		mm (in.)	750 (29.53)	
PERFORMANCE	Max. digging force	Bucket	kN (lbs.)	50.4 (11332)	63.5 (14275)
		Arm	kN (lbs.)	37.2 (8356)	40.8 (9172)
	Max. digging depth <at the blade down>		mm (in.)	4400 (173) <4680 (184)>	4150 (163) <4440 (175)>
	Max. vertical wall digging depth		mm (in.)	3940 (155)	3800 (150)
	Max. cutting height		mm (in.)	7230 (285)	6790 (267)
	Max. dumping height		mm (in.)	4620 (182)	4680 (184)
	Max. digging radius of the ground		mm (in.)	7140 (281)	6820 (269)
	Front min. swing radius <at swinging the boom>		mm (in.)	2720 (107) <2370 (93)>	2470 (97) <2130 (83.9)>
	Boom swing angle: left / right		degrees	57 / 60	
SPEED	Travel speed: high / low	Rubber track	km/h (mph)	4.5 (2.8) / 2.5 (1.6)	
		Steel track	km/h (mph)	4.1 (2.5) / 2.3 (1.4)	
	Swing speed		rpm	9	
GROUND PRESSURE	With standard track	Rubber track	kPa (PSI)	35.8 (5.19)	35.1 (5.09)
		Steel track	kPa (PSI)	36.2 (5.25)	35.5 (5.15)
TANK CAPACITY	Fuel tank		L (gal)	115 (30.4)	
	Hydraulic oil tank		L (gal)	60 (15.8)	
HYDRAULIC SYSTEM	Pump displacement		L/min (gpm)	70.3 (18.6)×2 <Variable displacement pump> 53.2 (14.1)×1, 19 (5.0)×1 <Gear pump>	
	Relief set pressure		MPa (PSI)	25.5 (3698)×2, 24.0 (3481)×1, 2.9 (421)×1	
	Max. P.T.O. output		L/min (gpm)	120 (31.7)	

All data are subject to change without notice. Note that the standard equipment may vary. Consult your YANMAR dealer for confirmation.

YANMAR COMPACT EQUIPMENT

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