YANMAR

TRUE ZERO TAIL SWING MINI EXCAVATOR

ViO17-1

[Gross] 10.1kW <13.5HP>




YANMAR
VIO17

ViO17-1

Top performance and reliability for professionals



BUILDING WITH YOU

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

Features of ViO17-1

Cylinder Hose NEW

Easy to be replaced, less manpower.

Page 13

LED Working Light NEW

Provides brighter light.

Page 6

Spring Steel Cylinder Guards YANMAR ORIGINAL

To prevent cylinder rods from damage.

Page 10



ViPPS Hydraulic System

Ensures smooth and precise simultaneous movements.

Page 11

Sliding Variable Undercarriage YANMAR ORIGINAL

Retracts to fit through narrow passages.
Extends for stable operation.

Page 7



ROPS*1 & FOPS*2 4-Pole Canopy

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

Page 11

Oil Cooler NEW

Enhanced heat balance.

Page 6

YANMAR Engine YANMAR ORIGINAL

Powerful, reliable and efficient.

Page 8, 9

True Zero Tail Swing

Ensures safer operation on the tight job sites.

Page 7

Walk-Through

Get on and off the machine from both sides.

Page 11

Tie-Down Hooks

Ensures safe transportation.

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



Machine width

1280mm ▶ **950**mm

at the maximum at the minimum

Sliding Variable Undercarriage & Foldable Blade

The undercarriage retracts to 950mm to fit through narrow passages and extends to 1280mm for stability while working.

Simple Folding Extendable Blade YANMAR ORIGINAL

The hinged blade extensions are permanently fixed to the blade. No tools required to change the width of the blade. No risk of loosing the blade extensions.



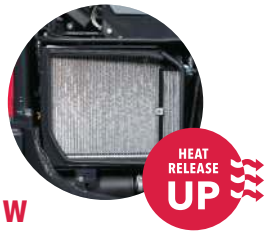
Excellent performance in a small package



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.





Upgraded Oil Cooler NEW

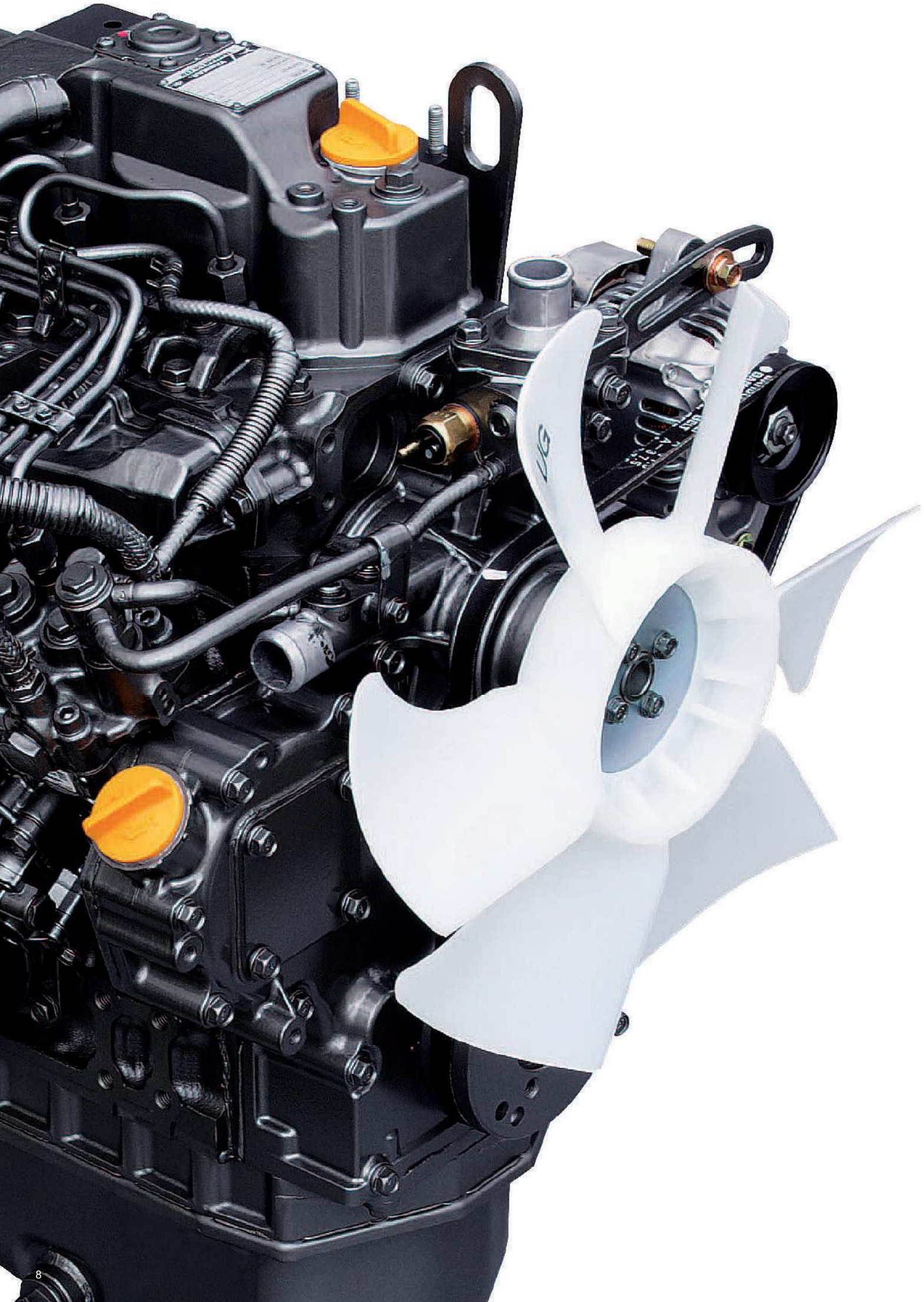
Additional fins in the oil cooler enhance cooling capabilities, especially hydraulic oil. It delivers excellent heat balance in all kinds of weather conditions. Additionally, it prolongs the lifetime of inner components.



LED Halogen

Built-in LED Working Light NEW

A well protected LED light provides brighter light for work safely and with accuracy in dark spaces.

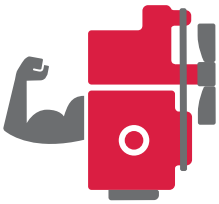


Reliable YANMAR engine designed to deliver powerful output and fuel efficiency

YANMAR Engine

Equipped with legendary YANMAR TNV engine. It guarantees high quality, power and efficiency thanks to advanced technologies.

Model **3TNV70-XBV** Output **10.1kW**



High Performance Engine

High performance engine provides a powerful boost for tough works.

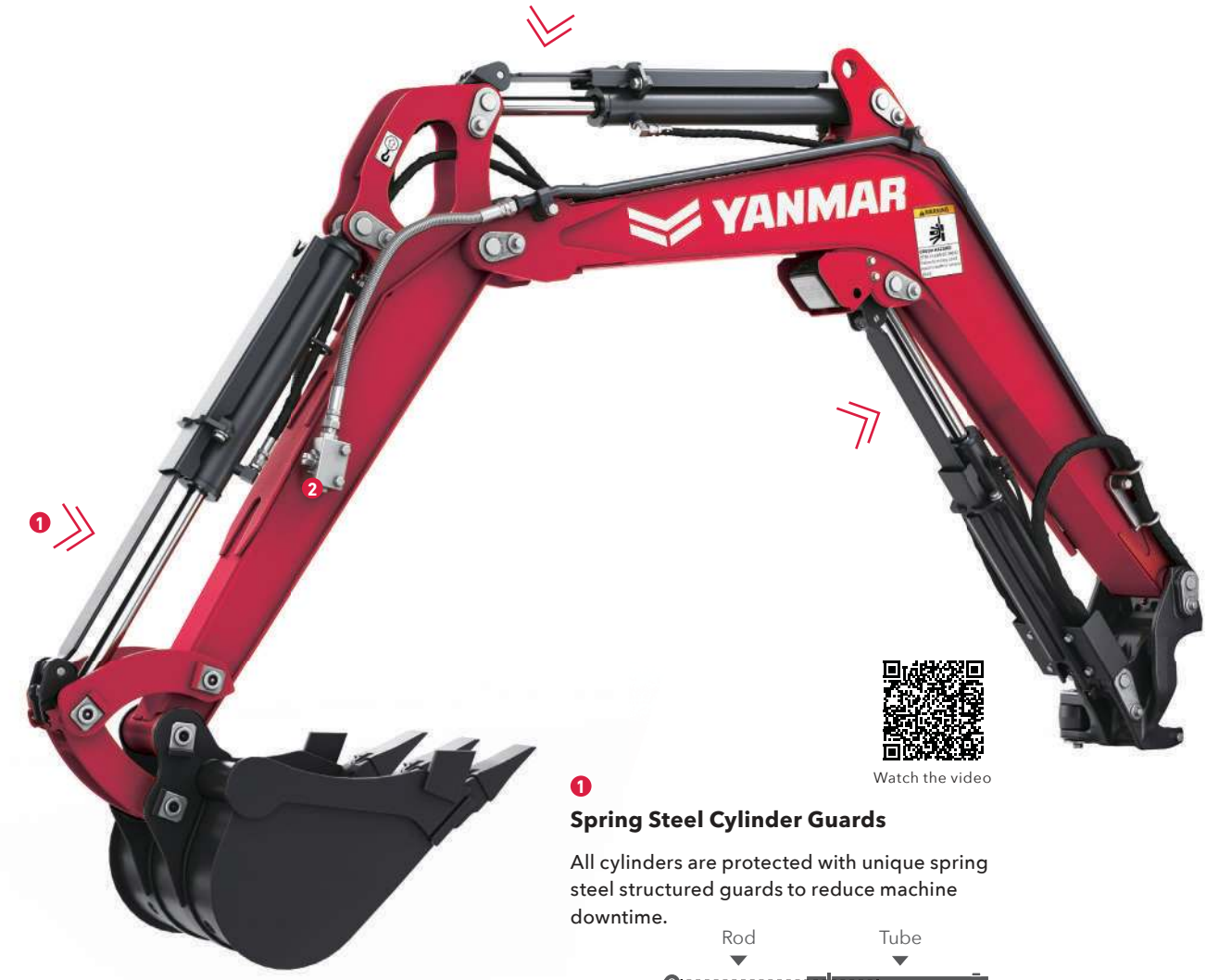


Clean and Low-Noise

Ultra-low noise design, friendly to people and the environment.

* The engine picture shown is for illustration purpose only.

Proven durability

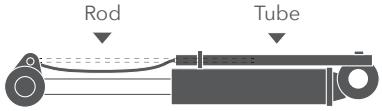


Watch the video

1

Spring Steel Cylinder Guards

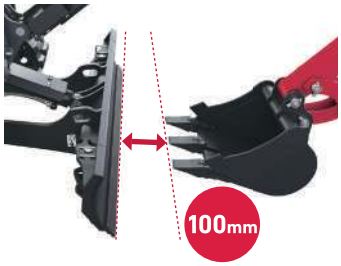
All cylinders are protected with unique spring steel structured guards to reduce machine downtime.



2

P.T.O. Hydraulic Line

Standard P.T.O. hydraulic line delivers excellent performance for demolition job application.



Minimal Distance between Bucket and Blade

It makes easy to push and collect soil in earth cleaning applications.



Cutting Edge Blade

High tensile steel plate for outstanding durability.



Protected Boom Cylinder Hose

The unique structure minimizes damage to the hose caused by dirt and sand.

Operator comfort and enhanced safety



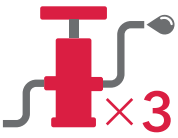
1
Walk-Through

A walk-through enables operator to get on and off the machine from both sides. It is highly efficient when operating right next to the wall.



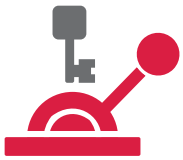
2
Hydraulic Joystick Lever

Equipped with joysticks on both sides of the seat. They enhance operator comfort and deliver precision control.



3
ViPPS Hydraulic System

YANMAR's progressive 3 pump system ensures smooth simultaneous operation of all functions, even when traveling.



4
Safety Lock Lever

To prevent from accidental operations, all the operations can be locked by pulling the safety lever.



ROPS and FOPS 4-Pole Canopy

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



Frame Guard

The bottom of the frame is covered with high-strength cast iron to provide protection on the toughest job sites.




YANMAR
1
2
3
4
5
6

Easy maintenance



1
Engine, Air Cleaner

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



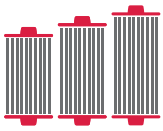
2
Battery, Cell Motor, Generator

The battery, cell motor and generator can be easily accessed by opening the cover under the operator seat.



3
Fuel Filler

Lockable cover below right-hand side joystick lever provides easy access and security.



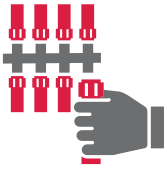
4
Hydraulic Components, Return Filter

The left-hand side steel cover can be easily removed to access hydraulic components and return filter.



5
Radiator

The right-hand side bonnet can be easily removed to access radiator.



6
Cylinder Hose NEW

Easy to replace hoses. Reduces maintenance time and cost.

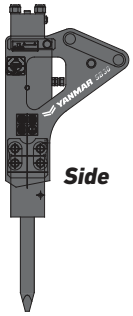
Attachments

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



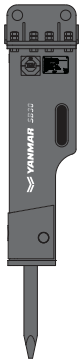
Side



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**

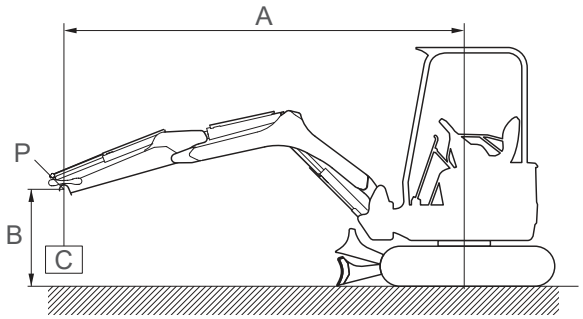


ecoY **Rubber Pad**



ecoY **Track Roller**

Lifting Capacity



With: Canopy and rubber track
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 [37kg (82lbs.)].

Blade on ground [Track width : 1280mm (extended)]

Unit: kg (lbs.)

A [m (in.)]	Max.		2.5 (98.4)		2.0 (78.7)		Min.	
B [m (in.)]								
2.0 (78.7)	*340 (749)	230 (507)	*320 (705)	*320 (705)	–	–	–	–
1.5 (59.1)	*350 (771)	200 (440)	*370 (815)	*350 (771)	*420 (925)	*420 (925)	–	–
1.0 (39.4)	*350 (771)	190 (418)	*440 (970)	290 (639)	*590 (1300)	410 (903)	*770 (1697)	530 (1168)
0.5 (19.7)	*370 (815)	190 (418)	*500 (1102)	280 (617)	*710 (1565)	380 (837)	*920 (2028)	480 (1058)
0 (0)	*380 (837)	200 (440)	*530 (1168)	280 (617)	*740 (1631)	370 (815)	*970 (2138)	590 (1300)
-0.5 (-19.7)	*400 (881)	220 (485)	*520 (1146)	270 (595)	*720 (1587)	360 (793)	–	–
-1.0 (-39.4)	*400 (881)	260 (573)	*440 (970)	270 (595)	*620 (1366)	360 (793)	–	–

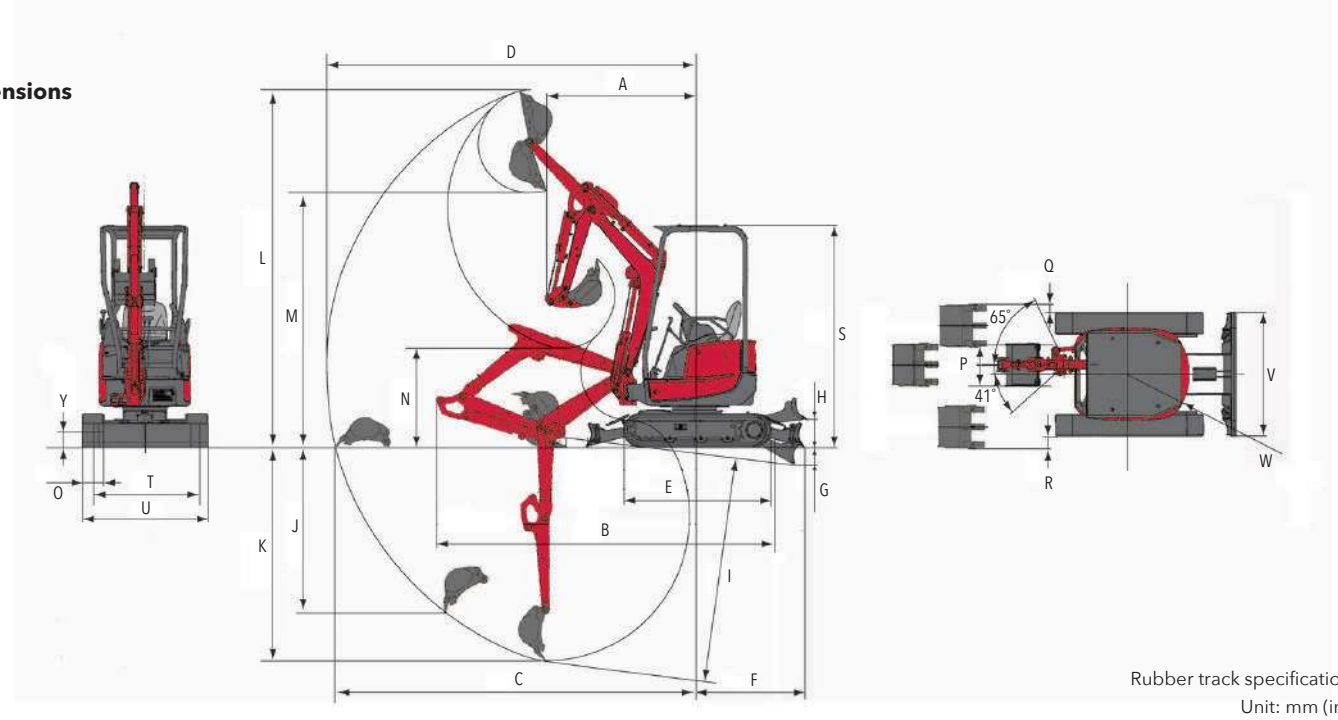
Blade above ground [Track width : 1280mm (extended)]

Unit: kg (lbs.)

A [m (in.)]	Max.		2.5 (98.4)		2.0 (78.7)		Min.	
B [m (in.)]								
2.0 (78.7)	230 (507)	230 (507)	*320 (705)	*320 (705)	–	–	–	–
1.5 (59.1)	200 (440)	200 (440)	300 (661)	*350 (771)	*420 (925)	*420 (925)	–	–
1.0 (39.4)	200 (440)	190 (418)	300 (661)	290 (639)	430 (947)	410 (903)	530 (1168)	530 (1168)
0.5 (19.7)	190 (418)	190 (418)	280 (617)	280 (617)	390 (859)	380 (837)	500 (1102)	480 (1058)
0 (0)	190 (418)	200 (440)	260 (573)	280 (617)	350 (771)	370 (815)	590 (1300)	590 (1300)
-0.5 (-19.7)	200 (440)	220 (485)	250 (551)	270 (595)	350 (771)	360 (793)	–	–
-1.0 (-39.4)	260 (573)	260 (573)	270 (595)	270 (595)	360 (793)	360 (793)	–	–

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
ViO17-1 Canopy	1540 (60.6) <1390 (54.7)>	3460 (136.2)	3730 (146.9)	3820 (150.4)	1540 (60.6)	1120 (44.1)	200 (7.9)	265 (10.4)	2310 (90.9)	1800 (70.9)	2210 (87.0)	3690 (145.3)	2620 (103.1)	1010 (39.8)	230 (9.1)	450 (17.7)	85-250 (3.3-9.8)	125-290 (4.9-11.4)	2320 (91.3)	720-1050 (28.3-41.3)	950-1280 (37.4-50.4)	950 / 1280 (37.4 / 50.4)	640 (25.2)	165 (6.5)

●Specifications

MODEL				ViO17-1
TYPE				Canopy
				Sliding variable undercarriage
WEIGHT	Operating weight	Rubber track	kg (lbs.)	1785 (3935.2)
		Steel track	kg (lbs.)	1870 (4122.6)
ENGINE	Type			Vertical 3-cylinder water-cooled diesel engine
	Model			3TNV70-XBV
	Rated output, gross		kW (HP) / rpm	10.1 (13.5) / 2200
BUCKET	Capacity, standard		cu.m (cu.ft)	0.04 (1.41)
	Width, standard		mm (in.)	450 (17.7)
PERFORMANCE	Max. digging force	Bucket	kN (lbs.)	15.2 (3418)
		Arm	kN (lbs.)	8.6 (1933)
	Max. digging depth <at the blade down>		mm (in.)	2210 (87.0) <2310 (90.9)>
	Max. vertical wall digging depth		mm (in.)	1800 (70.9)
	Max. cutting height		mm (in.)	3690 (145.3)
	Max. dumping height		mm (in.)	2620 (103.1)
	Max. digging radius of the ground		mm (in.)	3730 (146.9)
	Front min. swing radius <at swinging the boom>		mm (in.)	1540 (60.6) <1390 (54.7)>
	Boom swing angle: left / right		degrees	41 / 65
SPEED	Travel speed: high / low	Rubber track	km/h (mph)	4.2 (2.6) / 2.1 (1.3)
		Steel track	km/h (mph)	3.7 (2.3) / 1.9 (1.2)
	Swing speed		rpm	9.5
GROUND PRESSURE	With standard track	Rubber track	kPa (PSI)	29.0 (4.2)
		Steel track	kPa (PSI)	30.3 (4.4)
TANK CAPACITY	Fuel tank		L (gal)	20.0 (5.3)
	Hydraulic oil tank		L (gal)	16.5 (4.4)
HYDRAULIC SYSTEM	Pump displacement		L/min (gpm)	17.6 (4.65)×2 <Variable displacement pump> 13.2 (3.48)×1 <Gear pump>, 7.9 (2.09)×1 <Gear pump>
	Relief set pressure		MPa (PSI)	20.6 (2986)×2, 16.7 (2417)×1, 2.9 (427)×1
	Max. P.T.O. output		L/min (gpm)	30.8 (8.1)

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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