YANMAR

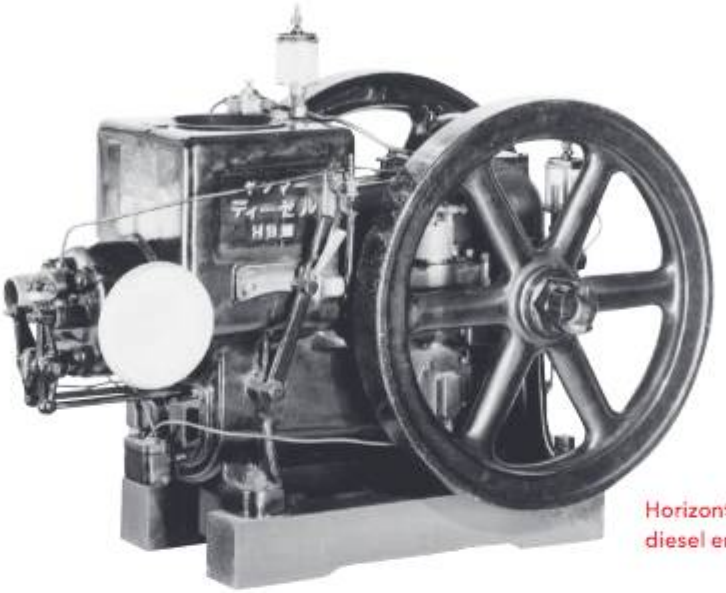
TRUE ZERO TAIL SWING MINI EXCAVATOR

ViO17-1

[Gross] 10.1kW 〈13.5hp〉

* The machine in the picture is equipped with optional parts.

Started with One Engine.



Horizontal water-cooled
diesel engine, Model HB

"to reduce the burden of labor with machines"
From the thoughts of him, Magokichi Yamaoka, the founder of YANMAR,
achieved the world's first miniaturization of a diesel engine.

The spirit of manufacturing that is close to the feelings of workers on the job site
has been handed down to us at YANMAR Compact Equipment throughout the ages.

We will create safe, secure, and optimal products by responding to the voices of workers in the field.
We will keep on providing new values to construction sites with YANMAR engines and the thoughts.

> HISTORY of YANMAR COMPACT EQUIPMENT

1968

YNB300 EXCA
PIONEER

1971

YFW500D CARRIER
WORLD FIRST

1972

Y30W LOADER
PIONEER

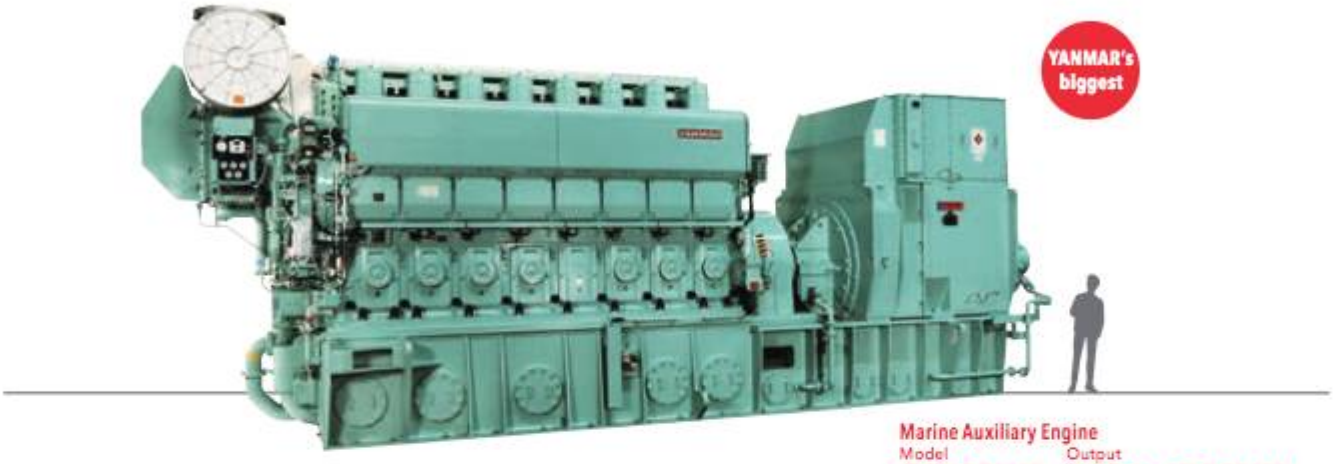
1975

YB1200 EXCA

1978

YB400 EXCA
PIONEER

YANMAR Engines Expand the Stage of Their Activities



Marine Auxiliary Engine
Model **8EY33LW** Output **4000~4800kW**

Generator Engine
Model **16NHL-ET** Output **1530kW**

Excavator Engine
Model **3TNV88** Output **18.5kW**

Generator Engine
Model **L70V** Output **4.3kW**

1983 Y31WA LOADER

1985 YFW25R CARRIER

PIONEER

1990 C6R CARRIER

1993 ViO series EXCA

PIONEER

Birth of ViO series

2012 ViO30-6 EXCA

Birth of ViO-6 series

* The pictures shown are for illustration purpose only.

Detail of Vi017

NEW

Cylinder hose (New design)

Easy to be replaced, less manpower

P.13

NEW

Built-in LED Boom light

Brighter and long lifetime

P.8

Spring steel cylinder rod guards YANMAR ORIGINAL

Protect cylinder rods

P.10

3 Hydraulic pump system

Smooth operation

P.11

Sliding variable undercarriage YANMAR ORIGINAL

Smooth entry into a narrow space

P.9

ROPS*1/FOPS*2 four pillar canopy

Protect operator

P.11

NEW

Oil cooler

Improve heat release

P.8

YANMAR TNV Engine YANMAR ORIGINAL

Equipped with YANMAR engine best for the machine

P.7

True Zero Tail Swing

Compact rear allows safe turning

P.9

Walk-Through

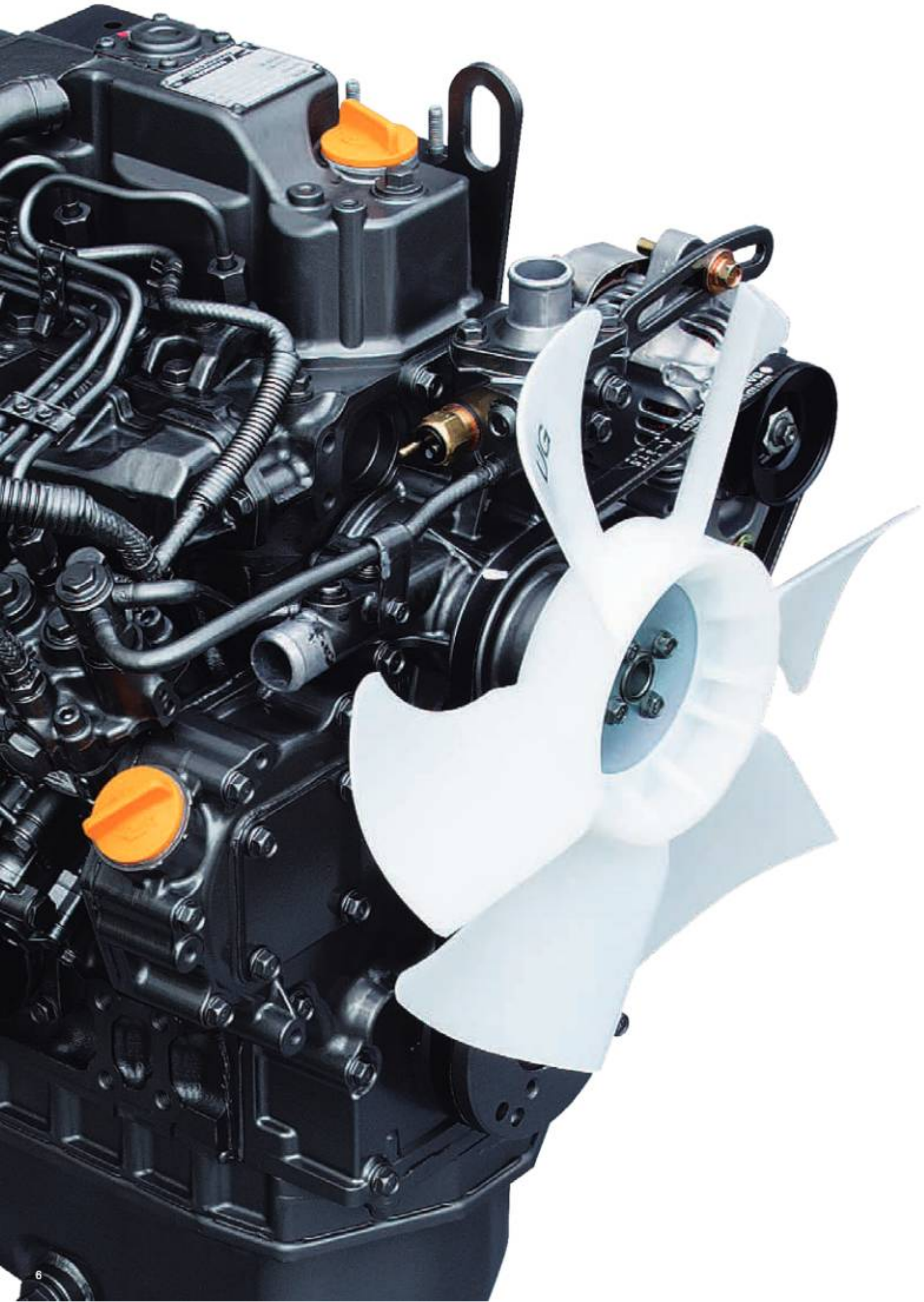
Enable to get on and off from both sides

P.11

Tie-down Hook

Easily and safely transported

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



The most reliable YANMAR ENGINE

YANMAR TNV Engine

Powered by YANMAR engine best for the machine
with great operability, high efficiency and low fuel consumption.

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

High performance and output

Powerful and reliable work with a high-output engine.

Clean and silent

Friendly design for people and the environment.

* The engine picture shown is for illustration purpose only.

LED

Halogen

NEW

Built-in LED boom light

Brighter and long lifetime.

NEW

Improved heat release

Additional fins in the oil cooler improve heat radiation and avoid downtime.

YANMAR ORIGINAL

Adjustable blade

YANMAR original pin detachable and foldable blade provides easy width change with no risk to lose the blade extensions.

Compactness

Easy entry into a narrow site with sliding variable undercarriage

width
1280mm ▶ 950mm
at the maximum at the minimum

Sliding variable undercarriage

Sliding variable undercarriage can get machine into narrow areas.

No overhang and care-free turning

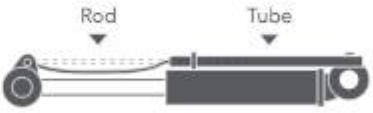
The rear does not extend over machine width.
Work near walls can be done safely and smoothly.

* At the maximum width

Robust and durable

1 Spring steel cylinder rod guards

Plate spring structure protects 3 cylinder-rods to prevent machine downtime.



Shorter distance between bucket and blade

It makes easier to collect objects by using blade and bucket.

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.

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

Reliable and safe operability

❶ Walk-Through

It can be easily accessed from both sides.

❷ Wrist control lever

Simple operation and smooth work.

❸ 3 Hydraulic pump system

Smooth performance of all operations, even operating the boom and the arm at the same time while turning.

❹ Safety lever system

When the lever is pulled, all operations will be locked. The engine can only be started when it is locked, preventing accidental operation.

ROPS*1/FOPS*2 four pillar canopy

The safety system that meets ISO standards secures the safety of operator.

Bottom protector

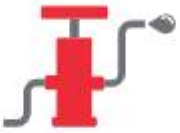
The corners are covered with high-strength cast iron to prevent damage.


6
YANMAR
5
4
2
1
3

Easy maintenance and service

❶ One-touch opened rear hood

Quickly check and refill engine oil, clean the air filter, and refill engine coolant for daily maintenance.



❷ Full-opened left cover

Hydraulic equipment and return filter can be easily accessed for daily maintenance.

❸ Full-opened right cover

Easy access to the radiator.

❹ Opened cover under the seat

Easy access to battery, cell motor and generator.

❺ Smooth refueling

The fuel flap is located next to the right operating lever for safer and easier refueling.

❻ Cylinder hose (New design)

Easy to replace hoses and reduce maintenance time and cost.

Tie-up Products

YANMAR Hydraulic Breaker

Our hydraulic breaker can be attached to your own machine.
For details, please refer to the breaker catalog.

Product Lineup

Side

Pin Mounted

Cap Mounted

Box Housing
(Silenced)

---

ecoY
ECONOMIC & STRONGLY MADE

ecoY, a second brand of YANMAR's spare parts, offers

Lower price　1-year warranty　Long life deep heat treatment

ecoY Bucket Tooth Adapter

ecoY Carrier Roller

ecoY Idler

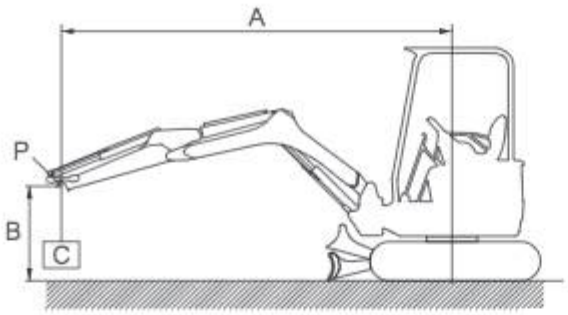
ecoY Sprocket

ecoY Rubber Track

ecoY Rubber Pad

ecoY Track Roller

Lifting Capacity



With:
Canopy
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 at the maximum width

Blade on ground

Unit: kg lbs.

A [min.]	Max.		2.598.5		2.078.7 Min.			
B [m in.]								
2.0 78.7	230 507	340 * 749	320 * 705	320 * 705	–	–	–	–
1.5 59.1	210 462	350 * 771	360 * 793	370 * 815	430 * 947	420 * 925	–	–
1.0 39.4	200 440	350 * 771	300 661	440 * 970	420 925	590 * 1300	530 1168	770 * 1697
0.5 19.7	190 418	370 * 815	280 617	500 * 1102	380 837	710 * 1565	480 1058	920 * 2028
0 0	200 440	380 * 837	270 595	530 * 1168	370 815	740 * 1631	590 1300	970 * 2138
-0.5 -19.7	220 485	400 * 881	270 595	520 * 1146	370 815	720 * 1587	–	–
-1.0 -39.4	270 595	400 * 881	280 617	440 * 970	380 837	620 * 1366	–	–

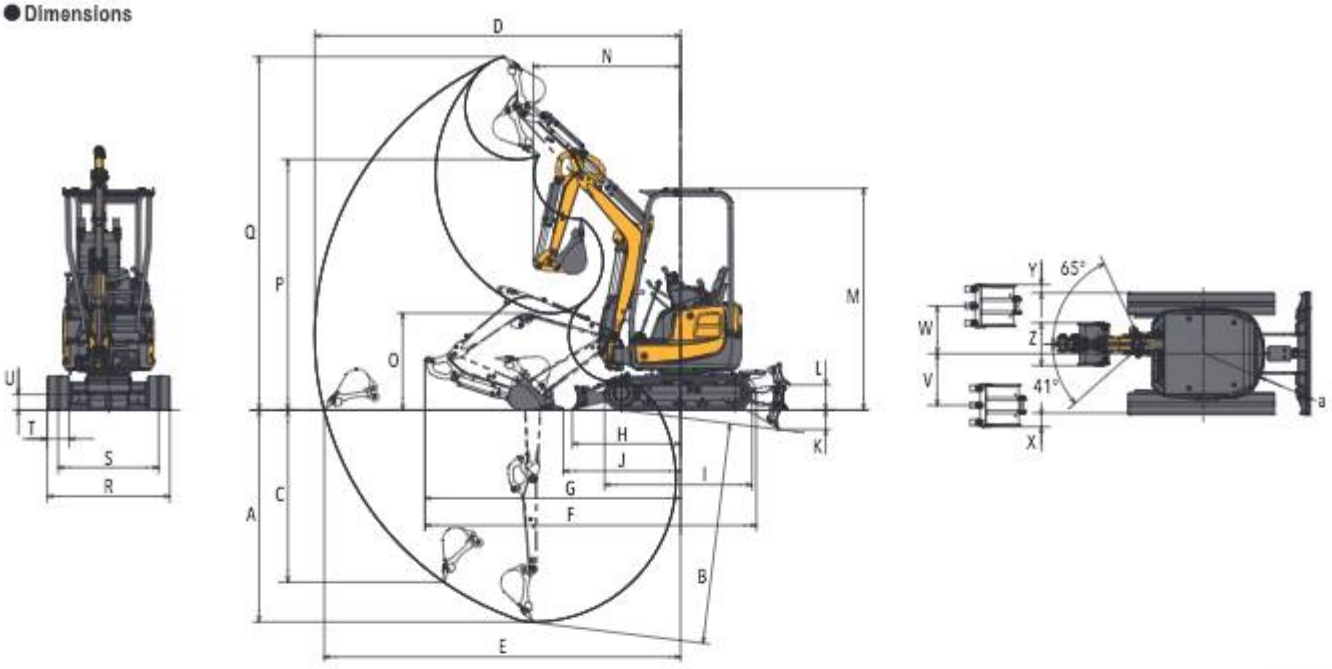
Blade above ground

Unit: kg lbs.

A [min.]	Max.		2.598.5		2.078.7 Min.			
B [m in.]								
2.0 78.7	230 507	230 507	320 * 705	320 * 705	–	–	–	–
1.5 59.1	200 440	200 440	350 * 771	300 661	420 * 925	420 * 925	–	–
1.0 39.4	190 418	200 440	290 639	300 661	410 903	430 947	530 1168	530 1168
0.5 19.7	190 418	190 418	280 617	280 617	380 837	390 859	480 1058	500 1102
0 0	200 440	190 418	280 617	260 573	370 815	350 771	590 1300	590 1300
-0.5 -19.7	220 485	200 440	270 595	250 551	360 793	350 771	–	–
-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 the tipping load, which is smaller.

● Dimensions



(unit: mm(ft-in))

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a
ViO17-1	2210	2310	1800	3820	3730	3460	2670	1120	1540	1220	200	265	2320	1540 (1390)	1010	2620	3690	1280/950	1050/720	230	165	540	500	125/290	85/250	450	640

Specifications

Model			ViO17-1
Type			Canopy
Operating Weight	Rubber track	kg (lbs)	1790 (3496)
	Steel track	kg (lbs)	1875 (4134)
Engine	Type	-	Vertical 3 cylinder water-cooled diesel
	Model	-	3TNV70-XBV
	Rated Output	kW (hp) / rpm	10.1 (13.5) / 2200
Performance	Bucket Capacity, Standard (ISO heaped)	cu.m (cu.ft)	0.04 (1.41
	Max Digging Force Bucket	kN (lbf)	15.2 (3417)
	Arm	kN (lbf)	8.6 (1933)
	Traveling Speed, High / Low	km/h (MPH)	4.2/2.1 (2.6 / 1.3)
	Swing Speed	RPM	9.5
	Boom Swing Angle, (L / R)	degrees	41 / 65
Ground Contact Pressure	Rubber track	kPa PSI)	29.1 (4.2)
	Steel track	kPa PSI)	30.4 (4.4)
Hydraulic System	Pump Capacity	L / min GPM)	17.6 + 17.6 + 13.2 + 7.9 (4.6 + 4.6 + 3.5 + 2.1)
	Main Relief Set Pressure	MPa (PSI)	20.6 (2987)
Undercarriage	Track type	-	Rubber
Blade Dimensions	Width x Height	mm (ft-in)	1280/950 x 250 (4'2" / 3'1" x 9")
Fuel tank capacity		L (Gals)	20 (5.3)

Hydraulic P.T.O.

Model		ViO17-1	
Output / Specification	MPa (PSI)	L / min (GPM)	
		2200RPM	1250RPM
Combined Flow, Double Actions	16.7 (2442)	30.8 (8.1)	17.5 (4.6)

YANMAR CONSTRUCTION EQUIPMENT CO., LTD.

Promotion Group
Sales Planning Dept.
Marketing & Sales Dept.
1717-1, Oaza Kumano, Chikugo, Fukuoka 833-0055, Japan
TEL. +81-942-70-8992
FAX +81-942-53-6855
yanmar.com

Printed in Japan
July, 2021 03100-G01260 2107S