



YANMAR

TRUE ZERO TAIL SWING MINI EXCAVATOR

ViO20-6

[Gross] 14.6kW<19.6hp>



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

**Well-balanced
fuel-efficiency, safety
and comfortability in a
powerful compact package.**



Detail of ViO20-6

Features

Spring steel cylinder rod guards to prevent damage to the hydraulic cylinder

▶Page 4

Hydraulic quick coupler makes adding attachments quick and easy.

▶Page 9

Easy one touch open right bonnet

▶Page 8

Working light (LED) that covers a wider area.

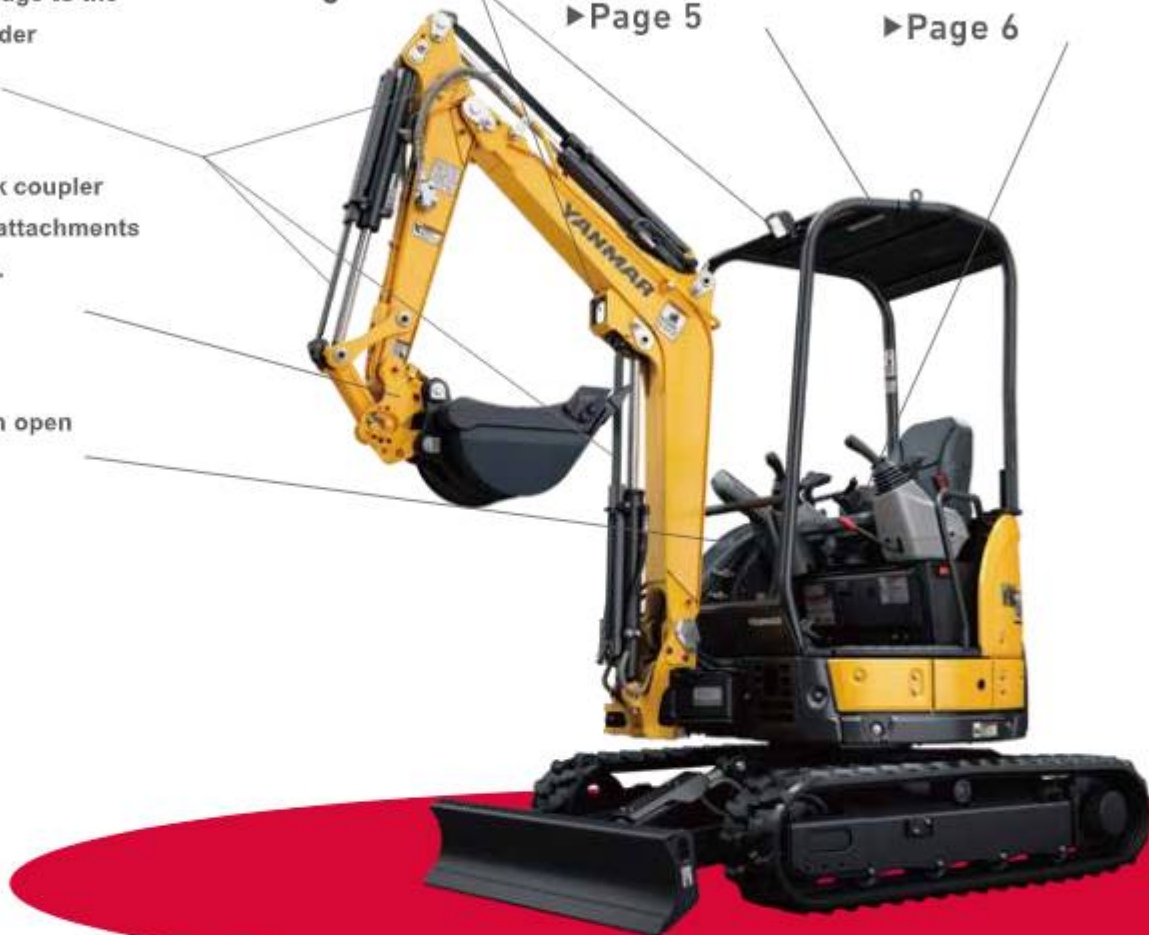
▶Page 5

ROPS/FOPS four pillar canopy to protect the operator

▶Page 5

Easy-to-fasten retractable seatbelt to protect the operator

▶Page 6



Pattern change valve that can be easily switched operation pattern.

▶Page 9

Equipped with an eco-friendly and silent diesel engine.

▶Page 5

True Zero Tail Swing that can turn without worrying about the rear end

▶Page 4



* Merchandise and features may differ depending on the region.

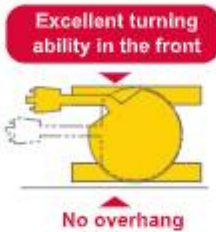
* The images shown here are for promotional purposes. * The image may differ from the actual model on sale.

* The machine in the picture is equipped with optional parts. * Ground the bucket when leaving the operator's seat.

Safe, easy and stable operations.

● True Zero Tail Swing

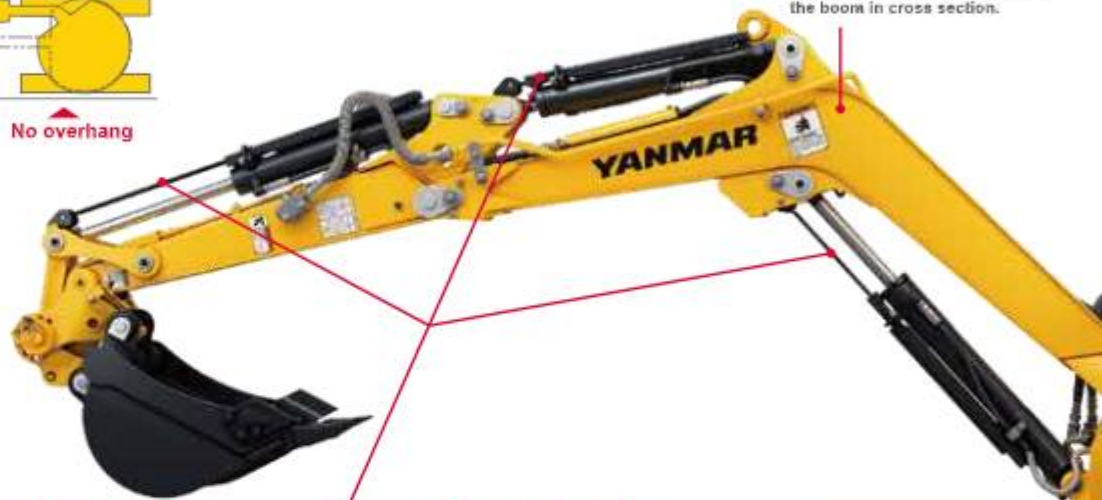
Works efficiently and can be operated without worrying about the tail swing. The excavator body stays within the machine width. This helps reduce the operator's efforts and work time.



● Hydraulic hoses are installed in the boom to prevent from being damaged.

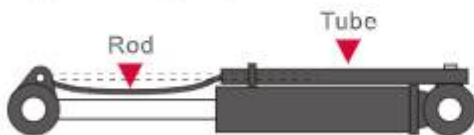


* The picture is an image showing the boom in cross section.



● Spring Steel Cylinder Rod Guards

The cylinder rod is protected by the spring steel structure. Scratches caused by debris or collision are greatly reduced thanks to the spring steel's ability to absorb impact. Additionally, the high-tension steel cylinder tube is highly durable and unlikely to bend, giving the operator a sense of safety. Regardless of whether the cylinder expands or contracts, it will always be protected.



● Carrier roller

Carrier roller reduces clawer noise.



● Track roller

Four track rollers are equipped.



● Eco-mode function

Reduces fuel consumption by reducing the maximum engine speed by approximately 10%.



● Auto deceleration

If the operation lever stays in neutral for more than 4 seconds, the engine speed will automatically change to low idle. The engine speed will automatically revert to the original speed once the operation lever is moved.



● Fuel efficiency

An excellent hydraulic system combined with the Eco mode makes the machine more fuel efficient.

Fuel efficiency per 1L



30%
improvement

Fuel consumption



20%
improvement

● **Four-pillar ROPS/FOPS Canopy**

Easier & more comfortable operation!
Meets international protection standards to ensure safer work.
ROPS:Roll-Over Protective Structure
FOPS:Falling Object Protective Structures.



● **Durable steel hood**

Total width
1380 mm

● **Extension of the Blade arm**

The Blade arm is extended compared with the previous model. It makes easier to collect objects by using blade and bucket.



Powerful output with low exhaust gas emissions.

● **YANMAR TNV diesel engine**

A quiet engine allows you to work efficiently without disturbing other people or the environment.



Engine model
3TNV76-PBV1
Engine output (gross)
14.6kW

* Engine photo is for illustrative purposes only.

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Light (LED) reaching wide, covers the large working area.



● **LED light with 2-level control system**

Level 1:Boom light only
Level 2:Lights up all



Canopy light

Boom light

● **LED lights are designed considering light distribution for operating in dark worksite. Comparison of LED light and Halogen light distribution**

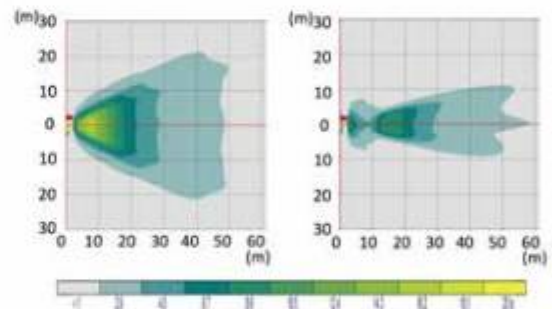
[compared to our company's products]



LED



Halogen lamp



*This picture describes with lux unit. Lux is unit of illuminance.

Maneuvering in tight space, and easy and multi functioned operation

● Wrist control lever

● A flat floor

● External engine shut-off switch

In an emergency, this switch immediately stops the engine with one-touch.



● Reclining seat

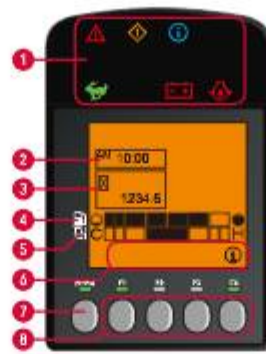
Comes equipped with a operator's manual cases at the back of the seat.



Easy operation with the user in mind.

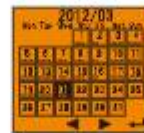
- The large LCD display includes an LED backlight, that makes it enable for the operator to easily check information in the low light conditions.

Easy to find out essential information related to operational status and errors, by an easy to read monitor, LED indicator lamps and buzzer.



- 1 LED lamp blinks when displaying warning and information.
 - 2 Clock
 - 3 Hour meter
 - 4 Fuel gauge
 - 5 Water temperature meter
 - 6 F1-F4 key guidance
 - 7 Switch to select menus/main menu
 - 8 F1-F4 perform the operation displayed in guidance
- Warning lamp
 - Caution lamp
 - Information lamp
 - High speed travel lamp
 - Battery charge lamp
 - Engine oil pressure lamp

LCD monitor sample screen



- : 0.5 to 2 hours
- ■ : 2.0 to 4 hours
- ■ ■ : 4.0 to 8 hours
- ■ ■ ■ : 8 hours and over

1 months operation time is displayed*
*Displays up to 3 months



Daily operation hours separated by AM/PM*



● Retractable seatbelt

The retractable seatbelt is easy to use.



● Blade lever

● Eco mode switch

● Auto deceleration switch

● Utility box



● External power outlet (12V)

Can also be used to charge cell phone.



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Simple maintenance, one touch action to open.

● Open the upper right side with one touch

Easy access to the fuel tank, hydraulic fluid tank, and the battery.



Hydraulic fluid tank

battery

Fuel tank



● Open around the operator's seat

The front cover of the seat mount opens wide for accessibility to the engine and electronic components. The side cover opens without tools to allow access to the hydraulic system.



● Hood handle



Easy to grasp and open with either of your hand

● Open rear hood, right hood

The hoods are simple to open and close making it easy to access to the engine. The radiator is a discharge cooling type with less dust clogging which contributes to a longer machine life.



air cleaner

engine



radiator



A wide variety of functions for various types of sites and work.

* Merchandise and features may differ depending on the region.

● Hydraulic quick coupler makes changing attachments quick and easy.



● Unattach bucket



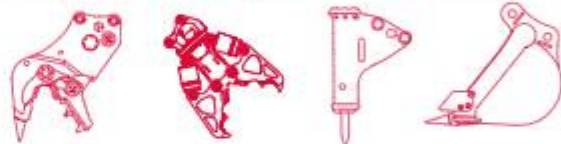
● Attach bucket



● Pattern change valve (2way/4way)



● Supports various types of attachments



* Some attachments are not compatible.

SMARTASSIST
Remote

Providing services that keep you on track.

SMARTASSIST Remote

* Separate application required (free)



● Efficient use of machinery thanks to remote monitoring

Our construction equipment is equipped with GPS and communication terminals, allowing you to manage location information via the communication system. The system also lets Yanmar remotely monitor your machine, allowing us to keep on top of maintenance intervals, quickly identify machine trouble, and provide appropriate services and support at all times.



● Providing peace of mind, supporting your business

 <p>Theft prevention tool</p> <p>The theft prevention feature emails you if the machine moves out of a pre-determined area.</p>	 <p>Error notification service</p> <p>Quickly identify location of error in the event of machine trouble.*</p>	 <p>Maintenance management tool</p> <p>Manage inspection/ maintenance information.</p>	 <p>Operational status management tool</p> <p>Visualize operational status of machine.</p>	 <p>Work schedule creation tool</p> <p>Record work data and improve efficiency.</p>
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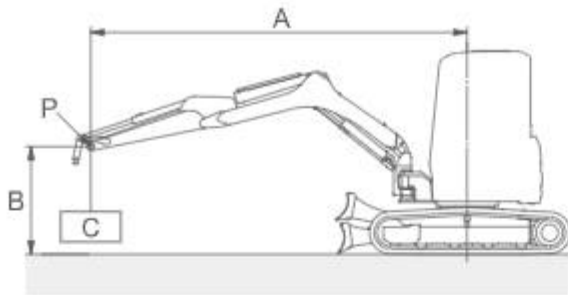
* The contents displayed on the screen may differ.

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Lifting Capacity



With:

Canopy Type

Rubber Crawler


Without: Quick coupler and Bucket

A: Reach from swing center line [m<in.>]

B: Load point height [m<in.>]

C: Lifting load [kg<lbs.>]



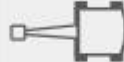

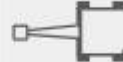

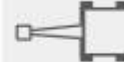

P: Load point

: Rating over front

: Rating over side or 180 degrees









Blade on ground

Unit : kg <lbs.>

A [m<in.>]	Max.		2.5 <98.4>		2.0 <78.7>		Min.	
B [m<in.>]								
2.0 <78.7>	270 <595>	510 <*1124>	-	-	-	-	-	-
1.5 <59.1>	240 <529>	510 <*1124>	390 <859>	620 <*1366>	-	-	-	-
1.0 <39.4>	230 <507>	530 <*1168>	380 <837>	730 <*1609>	520 <*1146>	1000 <*2204>	550 <1212>	1060 <*2336>
0.5 <19.7>	230 <507>	530 <*1168>	370 <815>	810 <*1785>	490 <*1080>	1100 <*2425>	520 <1146>	1200 <*2645>
0 <0.0>	240 <529>	540 <*1190>	360 <793>	820 <*1807>	480 <*1058>	1090 <*2403>	670 <1477>	-
-0.5 <-19.7>	260 <573>	550 <*1212>	350 <771>	770 <*1697>	480 <*1058>	1040 <*2292>	-	-
-1.0 <-39.4>	310 <683>	520 <*1146>	350 <771>	630 <*1388>	460 <*1014>	850 <*1873>	-	-

Blade above ground

Unit : kg <lbs.>

A [m<in.>]	Max.		2.5 <98.425>		2.0 <78.74>		Min.	
B [m<in.>]								
2.0 <78.7>	260 <573>	310 <683>	-	-	-	-	-	-
1.5 <59.1>	240 <529>	280 <617>	390 <859>	450 <992>	-	-	-	-
1.0 <39.4>	230 <507>	270 <595>	380 <837>	450 <992>	510 <1124>	610 <1344>	540 <1190>	640 <1410>
0.5 <19.7>	230 <507>	270 <595>	360 <793>	430 <947>	490 <1080>	590 <1300>	520 <1146>	640 <1410>
0 <0.0>	240 <529>	280 <617>	350 <771>	420 <925>	480 <1058>	580 <1278>	670 <1477>	860 <1895>
-0.5 <-19.7>	260 <573>	310 <683>	350 <771>	420 <925>	470 <1036>	580 <1278>	-	-
-1.0 <-39.4>	300 <661>	360 <793>	340 <749>	410 <903>	460 <1014>	570 <1256>	-	-

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.

The Unsung Heroes Who Build Our Towns And Cities

You build the infrastructure and the foundations in our towns and cities.
Transforming the places where we stand today, into dreams of tomorrow.
You are the unsung hero.

The YANMAR mission is to provide machines and services that allow you to reach your full potential.

Built tough and with comfort in mind,
YANMAR construction equipment will help you get the job done with ease, regardless of the worksite.
When we make machines, we are dedicated to enabling you to perform at your best all of the time.

One example of this is our innovative True Zero Tail Swing Excavators that set the standard for safety and reliability,
enabling operators to perform at their best in tight quarters.

YANMAR also manufactured the first compact diesel engines,
and today we continue to make diesel engines ranging from 4 to 4,800 kW.

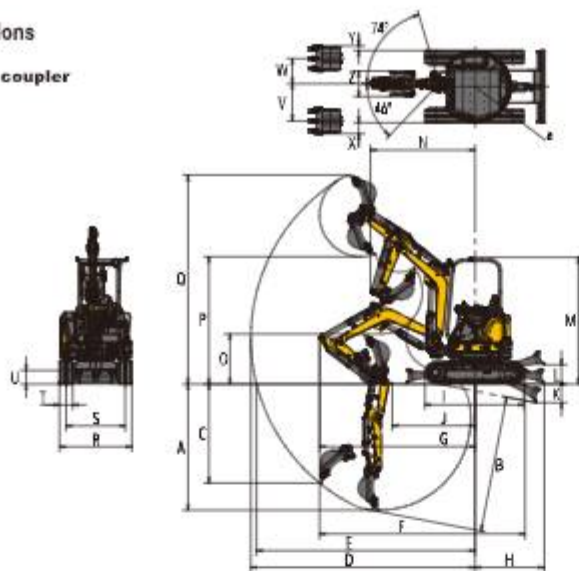
Equipped with advanced engines and hydraulic systems, our construction equipment delivers better fuel economy,
increased productivity and enhanced operability.

YANMAR is the driving force behind the unsung hero.

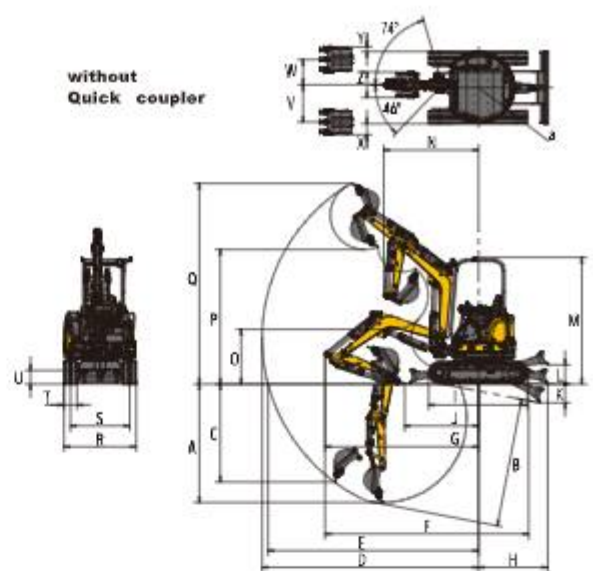
BEST PERFORMANCE BY YOUR SIDE

● Dimensions

Quick coupler



without Quick coupler



Unit: mm (ft-in)

		A	B	C	D	E	F	G	H	I	J	K	L	M	N(Swing)	O	P	Q	R	S	T	U	V	W	X	Y	Z	a
Capacity spec	Quick coupler	2410 (7'11")	2610 (8'7")	1890 (6'2")	4290 (14'1")	4180 (13'9")	3930 (12'11")	2970 (9'9")	1320 (4'4")	1890 (6'2")	1580 (5'2")	360 (1'2")	365 (1'2")	2400 (7'10")	1630(1540) 6'0"(5'1")	1120 38"	2640 88"	4230 (13'11")	1390 (4'6")	1130 (3'8")	250 (0'10")	260 (0'10")	710 (2'4")	480 (1'7")	210 (0'8")	90 (0'4")	490 (1'7")	690 (2'3")
	without Quick coupler	2270 (7'5")	2480 (8'1")	1870 (6'2")	4140 (13'7")	4020 (13'2")	3890 (12'9")	2930 (9'7")							1410 (4'8")	1670(1390) (5'6"(4'7")	1180 (3'10")	2780 9'1"										

Specification

Model		VI020-6	
Type		Quick coupler	without Quick coupler
Operating weight	Rubber track	kg(lbs)	2135 (4707)
	Steel track	kg(lbs)	2195 (4839)
Engine	Type	Vertical 3 cylinder, water-cooled diesel	
	Model	YANMAR 3TNV76-PBV1	
	Rated Output	kW(hp)/rpm	14.6 (19.6) / 2400 [Gross]
Performance	Bucket capacity, standard	cu.m (cu.ft)	0.06 (2.12)
	Bucket width, standard(ISO heaped)	mm (in.)	490 (19.3)
	Max Digging Force, Bucket/Arm	kN (lbf)	16.3 (3664) / 12.7 (2855)
	Traveling Speed, High/Low	km/h (MPH)	4.2/2.2 (2.6/1.4)
	Swing Speed	rpm	10
	Boom Swing Angle, (L/R)	degrees	46/74
Ground contact pressure	Rubber track	kPa (PSI)	25.9 (3.76)
	Steel track	kPa (PSI)	26.8 (3.89)
Hydraulic system	Pump capacity	L/min (GPM)	21.6 (5.7) × 2 [Variable displacement pump] 10.8 (2.9) × 1, 20.4 (5.4) × 1 [Gear pump]
	Main relief set pressure	MPa (PSI)	20.6 (2987) × 2, 16.7 (2421) × 1, 2.9 (420) × 1
Blade dimensions	Width X height	mm (ft-in)	1380×285 (4'6"×1'1")
	Stroke, Raise/Lower from G.L.	mm (ft-in)	365/360 (1'2"/1'2")
Fuel tank capacity	L (Gals)	27.5 (7.26)	

*Machine spec may differ depending on the region.

Hydraulic P.T.O.

Model		VI020-6	
Specification	Output	MPa (PSI)	L/min (GPM)
		2400RPM	1200RPM
Combined flow, double actions	20.6 (2987)	42 (11.1)	21 (5.5)

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All data subject to change without notice.