



# Vi020-6 / Vi023-6

[Gross] 15.0kW <20.1HP>







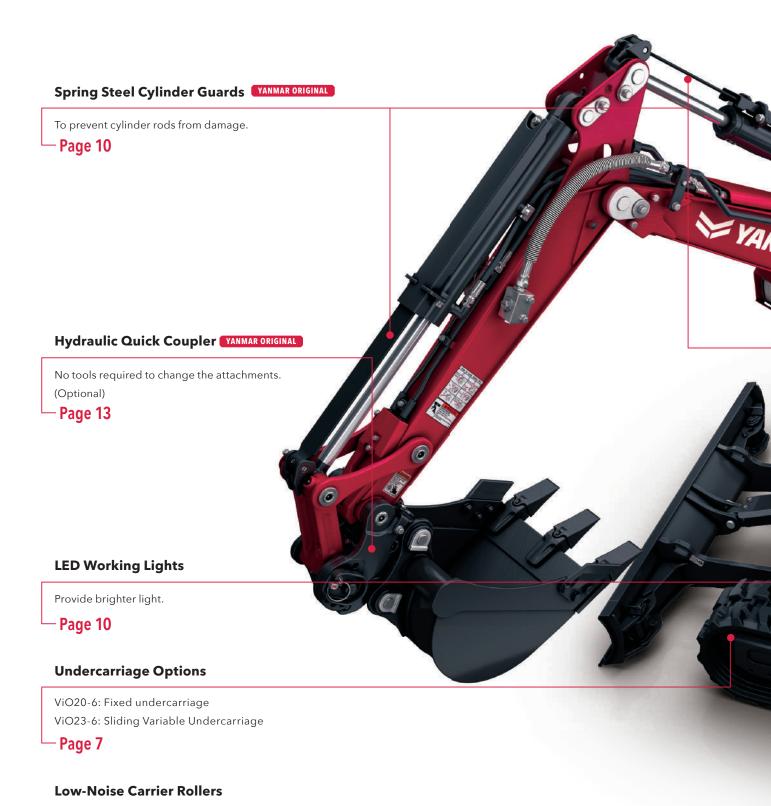
# ViO20-6 ViO23-6

Power, flexibility and stability in a compact package



# BUILDING WITH YOU

# Features of ViO20-6 / ViO23-6



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Makes low noise while traveling. Noise friendly to surroundings.

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\*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.



 $\mathsf{Machine\ width\ } \textit{ViO20-6}\ 1380_{mm}\ /\ \textit{ViO23-6}\ 1380_{mm}\ -\ 1550_{mm}$ 

## **True Zero Tail Swing**

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

Operating Weight

Vi020-6 2125kg *vio23-6* 2295kg

\*Canopy and rubber track type

# Pick the right excavator for your job

ViO23-6 Undercarriage



**ViO20**-6 Undercarriage

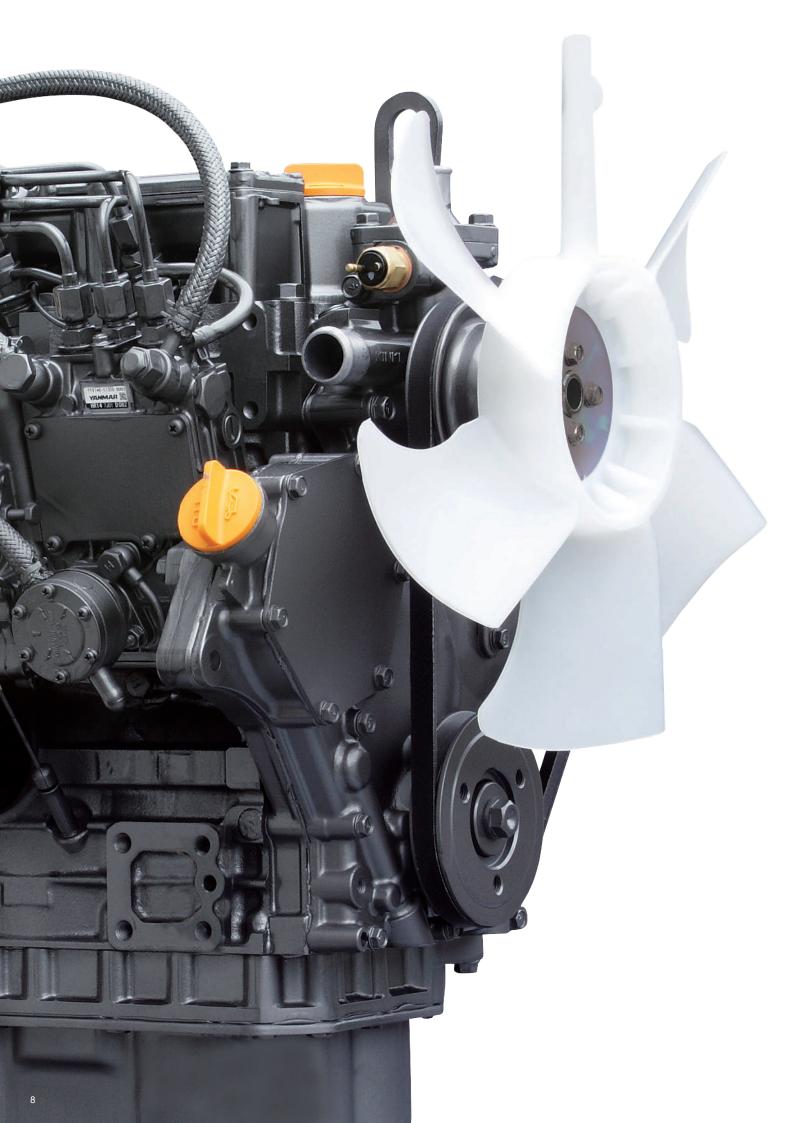


## Sliding Variable Undercarriage & Foldable Blade

The undercarriage retracts to 1380mm to enter narrow job sites and extends to 1550mm for stability while working. The width of the blade can be adjusted to width of the excavator thanks to foldable blade.

## **Fixed Undercarriage**

Fixed robust undercarriage provides excellent stability and long lasting lifetime.



# 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 3TNV76-PBV1 Output (Gross) 15.0kW



#### **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 88% from maximum speed.

# **Proven durability**





### **Boom-Inside Hoses**

The hoses are designed to pass through the boom structure for protection.

The picture illustrates the inside boom structure.





## **LED Working Lights**

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







Cabin light



## **Low-Noise Carrier Rollers**

Makes low noise while traveling. Noise friendly to surroundings.



# **Comfortable operator space**



# Large LCD Monitor with LED Backlight

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



## 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.



# Reclining and Sliding Seat

Adjustable to fit the operator's body and posture.



# External Power Outlet (12V)

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



## 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 and enhanced safety



# Engine, Radiator and Air Cleaner

The engine and right-hand side bonnets have wide openings. This allows you to have an easy access engine, radiator and air cleaner.



# Battery, Hydraulic Oil and Fuel

Lockable right upper hand bonnet provides easy access and security.



## **ROPS and FOPS 4-Pole Canopy**

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



# Grease Pump Holder

A secure location for grease pump



# Engine, Hydraulics and Electric Components

Seat mount and floor covers are easily removed to access components.

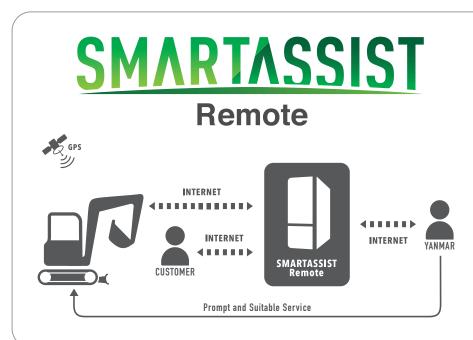


## **Emergency Engine Stop Switch**

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









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** 









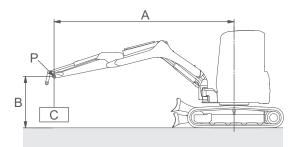
# YANMAR's recommended parts







# ViO20-6 / ViO23-6 Lifting Capacity



With: Canopy and rubber track
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

#### ViO20-6

Loads shown in table include weight of standard bucket [55kg (122lbs.)] and quick coupler [40kg (89lbs.)].

Blade on grou	ınd							Unit: kg (lbs.)		
A [m (in.)]	Max.		2.5 (	98.4)	2.0 (7	<b>7</b> 8.7)	Min.			
B [m (in.)]										
2.0 (78.7)	*510 (1124)	270 (595)	_	_	_	_	_	_		
1.5 (59.1)	*510 (1124)	240 (529)	*620 (1366)	390 (859)	_	_	_	_		
1.0 (39.4)	*530 (1168)	230 (507)	*730 (1609)	380 (837)	*1000 (2204)	520 (1146)	*1060 (2336)	550 (1212)		
0.5 (19.7)	*530 (1168)	230 (507)	*810 (1785)	370 (815)	*1100 (2425)	490 (1080)	*1200 (2645)	520 (1146)		
0 (0)	*540 (1190)	240 (529)	*820 (1807)	360 (793)	*1090 (2403)	480 (1058)	-	670 (1477)		
-0.5 (-19.7)	*550 (1212)	260 (573)	*770 (1697)	350 (771)	*1040 (2292)	480 (1058)	_	_		
-1.0 (-39.4)	*520 (1146)	310 (683)	*630 (1388)	350 (771)	*850 (1873)	460 (1014)	_	_		

Blade above ground Unit: kg (lbs.)

A [m (in.)]	Max.		2.5 (	98.4)	2.0 (7	78.7)	Min.			
B [m (in.)]										
2.0 (78.7)	310 (683)	260 (573)	-	-	_	-	-	_		
1.5 (59.1)	280 (617)	240 (529)	450 (992)	390 (859)	_	_	_	_		
1.0 (39.4)	270 (595)	230 (507)	450 (992)	380 (837)	610 (1344)	510 (1124)	640 (1410)	540 (1190)		
0.5 (19.7)	270 (595)	230 (507)	430 (947)	360 (793)	590 (1300)	490 (1080)	640 (1410)	520 (1146)		
0 (0)	280 (617)	240 (529)	420 (925)	350 (771)	580 (1278)	480 (1058)	860 (1895)	670 (1477)		
-0.5 (-19.7)	310 (683)	260 (573)	420 (925)	350 (771)	580 (1278)	470 (1036)	_	_		
-1.0 (-39.4)	360 (793)	300 (661)	410 (903)	340 (749)	570 (1256)	460 (1014)	-	_		

#### ViO23-6

Blade on ground [Track width: 1380mm (retracted)]

Unit: kg (lbs.)

A [m (in.)]	Max.		2.5 (	98.4)	2.0 (7	78.7)	Min.		
B [m (in.)]									
2.0 (78.7)	*510 (1124)	290 (639)	-	-	-	_	-	_	
1.5 (59.1)	*510 (1124)	270 (595)	*620 (1366)	440 (970)	_	_	_	_	
1.0 (39.4)	*530 (1168)	260 (573)	*730 (1609)	410 (903)	*1000 (2204)	560 (1234)	*1060 (2336)	570 (1256)	
0.5 (19.7)	*530 (1168)	260 (573)	*810 (1785)	410 (903)	*1100 (2425)	540 (1190)	*1200 (2645)	570 (1256)	
0 (0)	*540 (1190)	270 (595)	*820 (1807)	380 (837)	*1090 (2403)	510 (1124)	-	660 (1455)	
-0.5 (-19.7)	*550 (1212)	300 (661)	*770 (1697)	390 (859)	*1040 (2292)	520 (1146)	-	_	
-1.0 (-39.4)	*520 (1146)	360 (793)	*630 (1388)	390 (859)	*850 (1873)	530 (1168)	-	_	

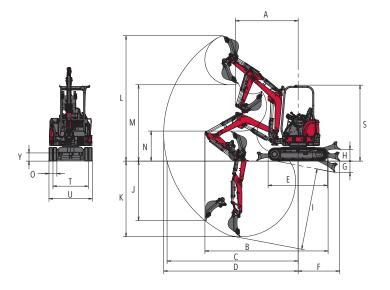
Blade above ground [Track width: 1380mm (retracted)] Unit: kg (lbs.)

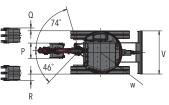
A [m (in.)]	Max.		2.5 (	98.4)	2.0 (7	78.7)	Min.		
B [m (in.)]									
2.0 (78.7)	350 (771)	290 (639)	_	_	_	_	_	-	
1.5 (59.1)	320 (705)	270 (595)	*620 (1366)	440 (970)	_	_	_	_	
1.0 (39.4)	300 (661)	250 (551)	500 (1102)	410 (903)	680 (1499)	550 (1212)	710 (1565)	570 (1256)	
0.5 (19.7)	320 (705)	260 (573)	490 (1080)	410 (903)	670 (1477)	540 (1190)	730 (1609)	570 (1256)	
0 (0)	320 (705)	260 (573)	460 (1014)	380 (837)	640 (1410)	500 (1102)	860 (1895)	650 (1433)	
-0.5 (-19.7)	350 (771)	290 (639)	470 (1036)	380 (837)	640 (1410)	510 (1124)	_	_	
-1.0 (-39.4)	420 (925)	350 (771)	470 (1036)	390 (859)	660 (1455)	520 (1146)	_	_	

#### 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=""></at>	В	С	D	E	F	G	Н	-1	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Υ			
	With quick coupler	2000 (78.7) <1700 (66.9)>	3930 (154.7)	4180 (164.6)	4290 (168.9)			360 (14.2)		2610 (102.8)	1890 (74.4)	2410 (94.9)	4000 (157.5)	2430 (95.7)	955 (37.6)		250 490	90 (3.5)	210		1130	1380	1380					
Canopy	Without quick coupler	1820 (71.7) <1530 (60.2)>	3890 (153.1)	4020 (158.3)	4140 (163.0)	1890				2460 (96.9)	1870 (73.6)		3840 (151.2)	2570 (101.2)	1050 (41.3)	250			(8.3)		(44.5)	(54.3)	(54.3)	690	260			
ViO23-6	With quick coupler	2000 (78.7) <1700 (66.9)>	3930 (154.7)	4180 (164.6)	4290 (168.9)	(74.4)	74.4) (52.0)			335	335	355	2600 (102.4)	1890 (74.4)	2410 (94.9)	4000 (157.5)	2430 (95.7)	955 (37.6)	(9.8)	(19.3)	5-90	125-210	(95.3)	1130-1300	1380-1550	1380 / 1550	(27.2)	(10.2)
Canopy	Without quick coupler	1820 (71.7) <1530 (60.2)>	3890 (153.1)	4020 (158.3)	4140 (163.0)			(13.2)		2450 (96.5)	1870 (73.6)	2270 (89.4)	3840 (151.2)	2570 (101.2)	1050 (41.3)			(0.2-3.5)	(4.9-8.3)		(44.5-51.2)	(54.3-61.0)	(54.3 / 61.0)					

Specifications

■Specificati	ons										
MODEL				ViC	)20-6	ViO23-6					
TYPE				Ca	пору	Canopy					
ITFE				With quick coupler	Without quick coupler	With quick coupler	Without quick couple				
WEIGHT	Operating weight	Rubber track kg (		2165 (4773)	2125 (4685)	2335 (5148)	2295 (5060)				
WEIGHT	Operating weight	Steel track	kg (lbs.)	2225 (4905)	2185 (4817)	2395 (5280)	2355 (5192)				
	Туре				Vertical 3-cylinder water	r-cooled diesel engine					
ENGINE	Model				3TNV7	6-PBV1					
	Rated output, gross		kW (HP) / rpm		15.0 (20.	1) / 2400					
NICKET.	Capacity, standard		cu.m (cu.ft)		0.06 (	2.12)					
BUCKET	Width, standard		mm (in.)		490 (	19.3)					
	Man discrete Comm	Bucket	kN (lbs.)	16.3 (3682)	17.5 (3934)	16.3 (3682)	17.5 (3934)				
	Max. digging force	Arm	kN (lbs.)	12.7 (2844)	13.1 (2954)	12.7 (2844)	13.1 (2954)				
	Max. digging depth <at blade="" down="" the=""></at>		mm (in.)	2410 (94.9) <2610 (102.8)>	2270 (89.4) <2460 (96.9)>	2410 (94.9) <2600 (102.4)>	2270 (89.4) <2450 (96.5)>				
	Max. vertical wall digging depth		mm (in.)	1890 (74.4)	1870 (73.6)	1890 (74.4)	1870 (73.6)				
PERFORMANCE	Max. cutting height		mm (in.)	4000 (157.5)	3840 (151.2)	3840 (151.2)					
2.11 0.11.11 11.102	Max. dumping height		mm (in.)	2430 (95.7)	2570 (101.2)	2430 (95.7)	2570 (101.2)				
	Max. digging radius of the ground		mm (in.)	4180 (164.6)	4020 (158.3)	4180 (164.6)	4020 (158.3)				
	Front min. swing radius <at boom="" swinging="" the=""></at>		mm (in.)	2000 (78.7) <1700 (66.9)>	1820 (71.7) <1530 (60.2)>	2000 (78.7) <1700 (66.9)>	1820 (71.7) <1530 (60.2)>				
	Boom swing angle: left / right		degrees	46 / 74							
	Travel speed:	Rubber track	km/h (mph)	4.2 (2.6) / 2.2 (1.4)							
SPEED	high / low	Steel track	km/h (mph)								
	Swing speed		rpm	10							
GROUND	With standard track	Rubber track	kPa (PSI)	26.3 (3.81)	25.8 (3.74)	28.3 (4.10)	27.8 (4.03)				
PRESSURE	With Standard track	Steel track	kPa (PSI)	27.2 (3.94)	26.7 (3.87)	29.2 (4.24)	28.8 (4.18)				
ANK	Fuel tank		L (gal)	27.5 (7.3)							
CAPACITY	Hydraulic oil tank		L (gal)	25.1 (6.6)							
HYDRAULIC	Pump displacement		L/min (gpm)	21.6 (5.70) $\times$ 2 < Variable displacement pump> 20.4 (5.39) $\times$ 1 < Gear pump>, 10.8 (2.85) $\times$ 1 < Gear pump>							
SYSTEM	Relief set pressure		MPa (PSI)	20.6 (2988)×2, 16.7 (2422)×1, 2.9 (421)×1							
	Max. P.T.O. output		L/min (gpm)	42 (11.1)							

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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