

ViO20-4 2230/2335 kg



Call for Yanmar solutions















Vi020-4

The ViO20 is a real Zero Tail Swing machine: neither the counterweight nor the front part of the upper frame exceed the width of the crawlers.



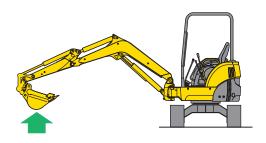
Advantages for the user

- > Possibility to work in narrow areas, where a conventional machine is not able to work.
- > Possibility to work along a wall.
- > No dead angle in the upper structure: maximum all-round visibility.
- > Safety and productivity for the operator.
- > Easier transport thanks to reduced width.
- > Operations are perfectly adapted to urban areas: the machine does not obstruct all lanes of traffic.

Excellent weight distribution

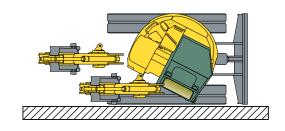
The use of a large counterweight, asymmetric crawlers (VICTAS® system) and high tensile equipment allows:

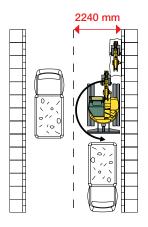
- > Equalled stability, even higher than that of a conventional machine of the same weight.
- > Increased lifting capacity.



Design principles

- > No counterweight overhang the rear.
- > Front swing radius with boom swing: 1550 mm.
- > Rear swing radius: 690 mm.
- > Width of the machine reduced to 1380 mm.







Asymmetric crawlers (patented VICTAS® System)

- > Increased foot print without the increase of machine width.
- > Higher sideward stability and higher lift capacity.
- > Noise and vibration free travel.
- > Less ground damage.



HIGH PERFORMANCE

Combining long experience and unrivalled expertise, YANMAR's technology ensures environmental performance and high efficiency.



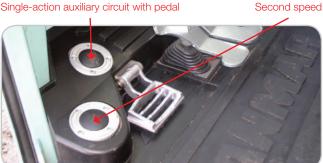


Higher productivity for the operator

- > Separate pedals for 3rd circuit and boom swing + forward and backward travelling possible with feet: possibility to combine various working movements and travelling.
- > Single-action auxiliary circuit with pedal to add accessories (for example: hydraulic breaker, auger...).
- > Second speed.
- > Dual-action auxiliary circuit with the right joystick allowing a higher precision (for example: swivelling ditch cleaning bucket).



Single-action auxiliary circuit with pedal



A new-generation Yanmar "TNV" (Totally New Value) engine

Improvement and modernisation of TNE series, which is already well-known for its "clean and quiet" profile:

- > Reduced emissions for an even cleaner engine.
- > Noise reduction for an even quieter engine.
- > Improved starting (warms up faster).

The engine 3TNV76-NBVA meets Stage II emissions regulations of the European Commission (EC) and Tier 4 emissions regulations of the American Environment Protection Agency (EPA).

Hydraulic circuit Load-Sensing. Variable flow piston pump

- > Precise working movements.
- > Simultaneous operations.
- > Safety and productivity, particularly for operations requiring accuracy: grading.
- > 3rd hydraulic circuit to arm end.





COMFORT & SAFETY

Vi020-4

All-round comfort and convenience. The many easy to use features include a comfortable seat with retractable seat belt, sensitive lever controls and uncomplicated lever arrangement.

Spacious and ergonomic pilot system

- > Perfect position of joysticks, armrests and travel levers.
- > Luxurious adjustable operators seat with headrest (forward and aft adjustment, backrest inclination adjustment, and weight adjustment).
- > Canopy and cabin fully compliant with safety norms: ROPS (Roll Over Protective Structure), FOPS 1 (Falling Object Protective Structure) and TOPS (Tip-Over Protective Structure).
- > Large safety lever on access to operating position: locks working movements and travel (in raised position).
- > Battery isolator in standard.
- > Dual or single-action auxiliary circuit to add various accessories (swivelling ditch cleaning buckets...).







> Safety lever.

> Battery isolator.

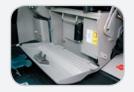
Cabin version

- > Windscreen in 2 parts, stored overhead. Sliding side windows.
- > Wide access to the operating position.
- > Defroster, heater, ventilation, inside lighting, windscreen washer.



> Integrated working lamp.

Other equipment



Storage space



Fixing points on track frame and blade to facilitate transportation on trailers



Travelling pedals



Evacuation hammer



Large hand grips



▶ RELIABILITY & ACCESSIBILITY



Simple maintenance structure for fast and easy access wherever it's needed.





> Cylinder protection on boom.



> The blade hydraulic cylinder is covered by a protective shield.

Easy access to maintenance points

- > Large rear bonnet allowing access to all engine components and hydraulic pumps.
- > Daily check points gathered under the front bonnet (top up oil, water, diesel).
- > Quick access to test points of all hydraulic circuits from the pilot system.



Strong protective devices

- > Flexible hoses protected by external covers.
- > Careful routing of hydraulic pipes and hoses on top of boom.









Engine

3TNV76-NBVA
15.2 kw/20.7 HP/2500 rpm
1115 cm ³
68.6 N.m./1800 rpm
•
39
26 I
210 bar
55 l/mn
4.3/2.5 km/h
9.7 rpm
1200/1900 kgf
47°/75°
0.29/0.28 kg/cm ²
30°
250 mm
280 mm
* Cabin/Canopy
28.5
2.91
3895 x 1380 x 2458 mm
92/92 dBA*
* Cabin/Canopy

Optional equipment

- > Special paint
- > Safety device for loading
- > Anti-theft device (with key / keyboard)
- > Bio oil
- > Radio

- > 2 additional working lamps
- > Quick coupler on the 3rd circuit
- > Mechanical quick hitch
- Standard, ditch cleaning and swivelling buckets
- > Hydraulic breaker

РТО	Theoretical data at 2500 rpm					
	Pressure	Oil flow				
A A	0 ~ 190 bar	48 ~ 18 l/mn				
(A) (A)	0 ~ 190 bar	48 ~ 18 l/mn				





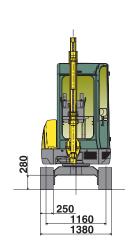
> TECHNICAL SPECIFICATIONS

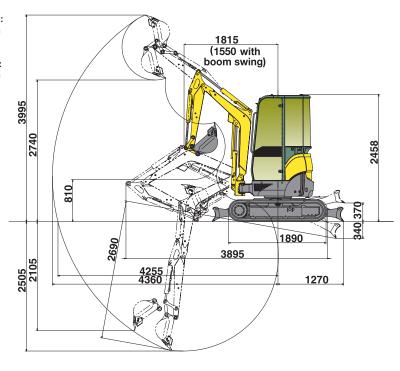
Operating weight +-2% (EC Norms): > 2230/2335 kg (rubber crawlers with

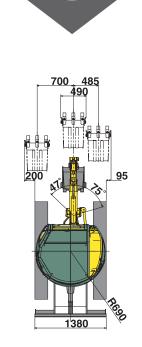
canopy / cabin)

Transport weight +-2% (EC Norms):

> 2155/2260 kg (rubber crawlers with canopy / cabin)







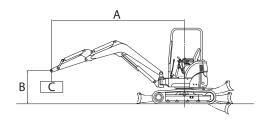
Subject to any technical modifications. Dimensions given in mm with standard Yanmar bucket.

Blade on ground

Α	Maxi		3.0 m		2.5 m		2.0 m		
В		J		H		J		J	
3.4	*390	*390	-	-	-	-	-	-	
2.5	290	*405	-	-	*335	*335	-	-	
2.0	245	*405	320	*400	*390	*390	-	-	
1.5	215	*425	305	*530	*495	*495	-	-	С
1.0	200	*425	270	*510	420	*615	605	*790	
0	210	*460	290	*600	390	*770	515	*1095	
-1.0	275	*475	-	-	375	*700	515	*980	
-1.5	360	*500	-	-	-	-	540	*735	

Machine with canopy, rubber crawlers, bucket of 52 kg (490 mm).

- A: Overhang from rotational axis (m).
- B: Height of hooking point (m).
- C: Safe working load (kg). (+ 4% with cab).



Blade above ground

Α	Maxi		3.0 m		2.5 m		2.0 m		
В		J		J		J		J	
3.4	*390	*390	-	-	-	-	-	-	
2.5	290	320	-	-	*335	*335	-	-	
2.0	245	275	320	*400	*390	*390	-	-	
1.5	215	245	305	335	*495	*495	-	-	C
1.0	200	240	270	350	420	470	605	*790	C
0	210	245	290	335	390	440	515	605	
-1.0	275	305	-	-	375	435	515	620	
-1.5	360	440	-	-	-	-	540	615	

Tipping load, rating over front



Tipping load, rating over side 90°

The data contained in these tables represent the lifting capacity in accordance with ISO standard 10567. They correspond to 75% of the maximum static tipping load or 87% of the hydraulic lifting power. Data marked * are the hydraulic limits of the lifting power.











Printed in France – Materials and specifications are subject to change from the manufacturer without notice. Please contact your local Yanmar Construction Equipment Europe dealer for further information.

Yanmar Construction Equipment Europe S.A.S.

25, rue de la Tambourine 52100 SAINT DIZIER – FRANCE contact@yanmar.fr

www.yanmar.eu