





Vi023-6



Operating weight	2245 kg (Canopy) / 2405 kg (Cabin)
Engine	3TNV76-PBV1
Digging force (arm)	13,1 / 10,6 kN
Digging force (bucket)	17,5 kN

Fyel-efficiency, versatility and operator comfort in a powerful compact package



COMPACTNESS

Yanmar, inventor of the ViO concept, has an unmatched experience in developing Zero Tail Swing excavators. The ViO23-6 is a true Zero Tail Swing miniexcavator that allows a full rotation of the upper frame within the width of the crawlers for maximum safety.



ROBUST AND RELIABLE YANMAR ENGINE

Well proven Yanmar 3TNV engines: Indirect injection system with mechanical speed governor. Quiet and powerful engine compliant to the latest emission requirements.



EXTENDING UNDERCARRIAGE

The ViO23-6 is fitted in standard with a variable undercarriage which can be easily extended or retracted by operating a simple lever. When fully retracted the machine can access the most restricted areas. Once extended, it benefits from excellent stability.



ViPPS HYDRAULIC SYSTEM

The ViO23-6 is equipped with a ViPPS hydraulic system which cumulates the flow of separate pumps in order to obtain the optimal combination in terms of speed, power, smoothness and balance. This hydraulic system configuration allows smooth and simultaneous operation of working movements, even while traveling.



EASE OF TRANSPORT

Its transport weight of just 2270 kg (cabin version / no quick hitch & no bucket) enables the ViO23-6 to be transported with its accessories on a trailer.







EASE OF USE

All control levers are ideally located for exceptional movement precision. All commands can be operated through joystick or foot pedal. The ViO23-6 comes with boom swing operated by pedal. "Auto-deceleration" and "Eco-mode" features are in standard.



COMFORT

The ViO23-6 working environment has been studied to improve the operato driving position and to facilitate his work, particularly on the long and challenging work sites: increased leg room, universal design, electronic instrumentation, improved ergonomics and low noise level.



HIGH PERFORMANCE

Upgrading of the powerline components (engine, hydraulic pump, control valve): no compromise between power and compactness.



SERVICE ABILITY

Daily checks and service points are easily accessible, facilitating the maintenance of the machine. The Vi023-6 has highly resistant steel panels and benefits from Yanmar's full cylinder protection to reduce downtime and total cost of ownership.



BEST COMPONENTS

Designed in Japan with components renowned for top quality and durability, throughout a long service life.



UNMATCHED COMPACTNESS

The ViO23-6 is a zero-tail mini excavator which works in the tightest spots. It provides Yanmar customers with true peace of mind, especially in urban environment where space is limited.

ADVANTAGES OF THE VIO DESIGN

Neither the standard counterweight, nor the front part of the upper frame sticks out of the track width. With its front part designed not to hang over, the ViO23-6 is a true zero tail swing excavator offering below advantages:

- + Smooth swing even in confined spaces
- + Operation with confidence and efficiency along the walls
- + Improved safety for both the operator and the side workers: critical on the jobsites.
- + Rear blind spot reduced to a minimum: enhances again the safety for the workers around the machine.

EASY TRANSPORTATION

The transportation weight of the machine with cabin, standard counterweight and short arm, is only 2270 kg (cabin version / no quick hitch & no bucket). Together with its very compact and variable undercarriage, the ViO23-6 is the ideal machine to maximize transportation capabilities with attachments and a total towed weight <3.5T.



RETRACTED: EASY ACCESS TO BOOM AREAS



EXTENDED: INCREASED STABILITY FOR IMPROVED DIGGING AND LOADING PERFORMANCES

EXTENDING UNDERCARRIAGE

UNIQUE DESIGN

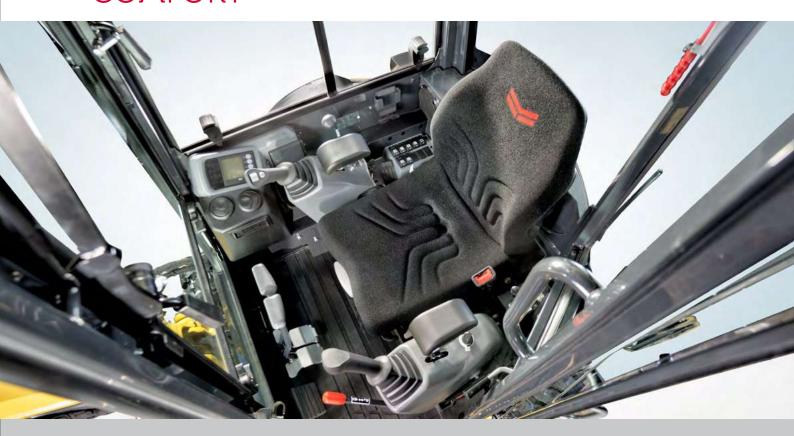
- + Reduced clearance between the sliding parts: no soil build-up during the extension of undercarriage.
- + High reliability over a long-term period.
- + The ViO23-6 is extremely stable due to the use of an extended undercarriage and good weight distribution



SIMPLE FOLDING EXTENDABLE BLADE

The hinged blade extensions are permanently fixed on the blade. No tools are necessary to change quickly the position. No risk to lose the blade extensions

COMFORT



SPACIOUS AND COMFORTABLE

CABIN



Putting the operator at the center of its design initiatives, Yanmar developed the « Universal Design » concept which provides comfort for enhanced productivity. In combination with increased leg room, it enables to improve the comfort and safety of the operator. Functional controls and switches are ergonomically arranged for easy reach.



Flat and spacious leg room: 385 mm

ALL-AROUND VISIBILITY

The ViO23-6 design provides an ergonomic environment, excellent visibility and exceptional safety. The shape of the cabin provides the operator with an optimal 360° visibility in order to improve the safety on the jobsite and to optimize work efficiency. The ViO23-6 is equipped with three mirrors to help the operator control the work area without moving from his seat.



COMFORTABLE SEAT

The ViO23-6 offers as optional feature a comfortable and ergonomic suspension seat with adjustable controls, high backrest and retractable seat belt, this to increase operator comfort and reduce body tension and fatigue.





The ViO23-6 offers exceptional performance for a machine in its class. Its digging depth of 2450/2655 mm* and digging forces of 17,5 kN (bucket) and 13,1/10,6 kN* allow it to work quickly and efficiently even under the most severe conditions.

LONG LASTING ROBUSTNESS AND RELIABILITY REPUTATION OF YANMAR 3TNV ENGINE PLATFORM

With a gross mechanical output of 14.6 kW at 2400 rpm, Yanmar's 3TNV76-PBV1 engine benefits from a long-lasting reputation.

+ As standard features, the auto-deceleration system and Eco working mode, offer additional fuel reduction possibilities.

VIPPS HYDRAULIC CIRCUIT (VIO PROGRESSIVE 3 PUMP SYSTEM)

The ViO23-6 uses a ViPPS hydraulic system. This configuration uses 1 double, variable displacement, piston pump and 2 gear pumps. The 3 main pumps totalize a maximum flow of 63,6 l/min, available for main machine operating movements. The flows of these pumps are cumulated in the Main Control Valves, according to the ViPPS system, to obtain the optimal combination in terms of speed, power, smoothness and balance. The ViPPS system allows smooth and simultaneous performance of all operations, even while traveling, in order to have the ultimate working tool.

EASY OPERATION

The operator environment is designed for an intuitive and easy use of the machine: simple layout of the commands, wide travel pedals...



SAFETY

The structure of the ViO23-6 cabin has been designed to meet the ROPS (Roll-Over Protective Structure) certification as well as the FOPS (Falling Object Protective Structure) level 1.



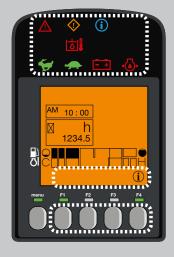
THE BEST BOOM, ARM AND BUCKET CYLINDER PROTECTION OF THE MARKET

The ViO23-6 benefits from a unique and complete protection of all its boom and arm cylinders. All cylinder tubes and rods are protected by a spring type steel plate, which reduces drastically the Total Cost of Ownership of the machine.

LED LIGHTING: EFFICIENCY AND LOW CONSUMPTION

In order to work safely, efficiently and with accuracy in the darkness, the ViO23-6 is equipped in standard with 1 LED light positioned in the inner part of the boom.







DIGITAL INTERFACE

The ViO23-6 is equipped with a digital interface which informs the operator in real time about the status of his machine. Perfectly integrated into the right hand console, the 3.3" screen provides excellent visibility. The interface provides the customer with useful information through LED lamps, or indications about important elements like fuel consumption, fuel gauge, coolant temperature gauge, etc... The interface assists the customer in monitoring maintenance intervals and scheduling related interventions. It also works as a diagnostic tool in case of malfunction by sending an error code and an information icon on the display.

MAINTENANCE

EASY ACCESS

Daily maintenance has to be performed easily. There is one easy to open engine bonnet and the right-hand side cover is mounted on one hinge to open easily. This gives an access to all major elements: air filter, radiator, battery, fuel tank, hydraulic oil tank, engine oil dipstick, water separator, coolant level, etc... A flat floor mat makes cleaning easier.





EQUIPMENT

[STANDARD EQUIPMENT]

PERFORMANCE

3TNV76-PBV1 Yanmar diesel | Meets EN-standards | Indirect injection | Auto-idle | Eco-Mode | Smart Assist Remote Water separator | VIPPS Hydraulic system (ViO Progressive 3 Pump System) | 3rd hydraulic circuit line to arm end with proportional control (max 37,5 l/min) | Hydraulic oil gauge | LED work light under the boom | Short arm (950 mm)

COMFORT AND EASE OF USE

LCD interface | Heating | Adjustable suspension seat with vinyl or textile cover | Adjustable wrist support | 2 x 12V outlets & USB charger | Sliding double right-side window | Transparent upper front part | Wiper | Windshield washer | Automatic ceiling lamp | Storage boxes | Cup holder

SAFETY AND DURABILITY

Handrails | Safety lever | Safety belt | Hammer for evacuation | 3 mirrors | Horn | Extendable undercarriage | 4 tiedown points (2 on the undercarriage, 2 on the blade) | Blade cylinder supply hose into two parts | Complete protection of cylinder rod (arm, boom, blade) | Hoses protected by abrasion & projection -resistant sleeves | Lockable engine bonnet and fuel cap access door

MISCELLANEOUS

Fuel gauge | Locking covers | Tool kit | Grease pump

[OPTIONAL EQUIPMENT]

EQUIPMENT AND PERFORMANCE

Long arm (1150 mm) | Third & fourth circuit with adjustable proportional control by potentiometer | Clamshell bucket circuit | Line high pressure 150 bar for hydraulic quick hitch | Quick couplers on hydraulic auxiliary lines | Additional counterweight (+100 kg) | Bio oil | 2 front LED working lights (cabin and canopy) | 1 rear LED work light + 1 LED flashing rotary fixed (cabin and canopy) | 1 LED flashing rotary fixed on cabin or canopy | Beacon light with magnetic base

COMFORT & EASE OF USE

Premium seat | Document box | Radio | Travel pedals

SAFETY AND DURABILITY

Safety valves for lifting + overload warning | Travel alarm | Anti-theft devices | GPS tracking

MISCELLANEOUS

Special paint

[ACCESSORIES]

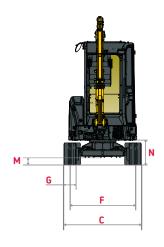
Yanmar offers you the accessories that fit your needs and match the safety standards applicable in your country: mechanical quick hitch, ditch cleaning bucket, tilting bucket, digging bucket, hydraulic hammer...

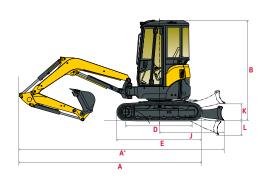


LIFTING FORCES

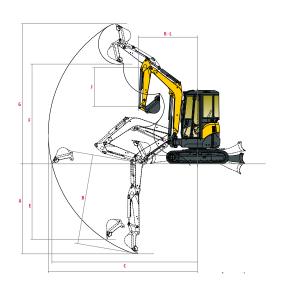
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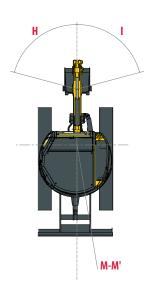
DIMENSIONS





Α	Overall length	3890 / 3910 mm	Н	Overall blade width	1380 / 1550* mm
A'	Overall length with blade at the back	4250 / 4270 mm	ı	Overall blade height	290 mm
В	Overall height	2420 / 2480** mm	J	Blade distance	1320 mm
С	Overall width	1380 - 1550* mm	K	Max. blade height above the ground	355 mm
D	Length of track on ground	1470 mm	L	Max. lowering blade depth	335 mm
Е	Undercarriage length	1890 mm	М	Minimum ground clearance	150 mm
F	Lane	1130 / 1300* mm	N	Ground clearance under counterweight	500 mm
G	Track width	250 mm			





Α	Max. digging depth - Blade lifted	2270 / 2465 mm	Boom swinging base to left	46°
В	Max. digging depth - Blade lowered	2450 / 2655 mm	Boom swinging base to right	74°
С	Max. digging reach on ground	4020 / 4220 mm	Arm lenght	950 / 1150 mm
D	Max. digging reach	4140 / 4325 mm	Minimum front swing radius	1820 / 1850 mm
Ε	Max. vertical wall	1870 / 2080 mm	Minimum front swing radius with boom swing	1530 / 1560 mm
F	Max. dumping height	2570 / 2695 mm	Rear swing radius	690 mm
G	Max. cutting height	3840 / 3960 mm	1' Rear turning radius with additional counterweight	750 mm



^{*} Retracted undercarriage - Extended undercarriage ** Canopy / Cabine

TECHNICAL SPECIFICATIONS



[WEIGHT +/- 2% (EN STANDARDS)] WITH JAPANESE BUCKET OF 58KG

	Transport weight	Operating weight	Ground pressure [Kgt/cm²]
Canopy version / Rubber crawlers	2170 kg	2245 kg	0,26 / 0,27
Cabin version / Rubber crawlers	2330 kg	2405 kg	0,29 / 0,30

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[ENGINE]

Туре	3TNV76-PBV1
Fuel	Diesel
Net Power	14,3 kW at 2400 rpm
Gross Power	14,6 kW at 2400 rpm
Displacement	1,11 liter
Maximum torque	62,8 – 68,6 N.m at 1800 rpm
Cooling	Water-cooling
Starter (V-kW)	12 - 1
Battery (V-Ah)	12 - 36
Alternator (V-A)	12 - 40

[HYDRAULIC SYSTEM]

Maximum pressure	210 bars
1 double piston pump with variable flow	2 x 21,6 l.min ⁻¹
1 gear pump	20,4 l.min ⁻¹
1 gear pump for pilot line	10,8 l.min ⁻¹

★ [PERFORMANCE]

Travel speed (Low / High)	2,2 / 4,2 km/h
Rotation speed	10 rpm
Digging force (arm)	13,1 / 10,6 kN
Digging force (bucket)	17,5 kN
Traction force	23,7 / 11,6 kN
Gradability	25°
Noise Level (2000/14/CE&2005/88/CE)	LwA: 93 dBA / LpA: 80 dBA

[UNDERCARRIAGE]

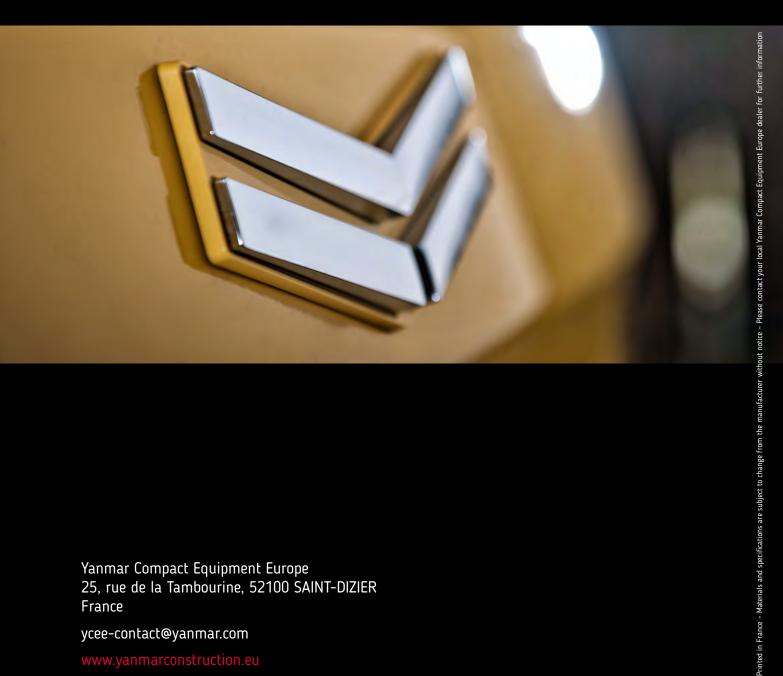
Number of top rollers	1
Number of bottom rollers	4
Track tensioning system	Grease adjuster

[CAPACITIES]

Fuel tank (L)	27,5
Coolant (L)	4,1
Engine oil (L)	3,5
Hydraulic circuit (L)	40
Hydraulic tank (L)	25

MAINTENANCE FREQUENCY





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