

YANMAR

Vi080-1



Operating weight	8065 kg
Engine gross power	41,5 kW / 56,2 HP at 1900 rpm
Digging force (arm)	40,8 kN
Digging force (bucket)	63,5 kN

UNIMATCHED COMPACTIESS FOR UNLIMITED ACCESS



COMPACTNESS

A true concentrate of technology and innovation, the Vi080-1 is a true zero tail swing midi-excavator which offers the performance of a large excavator while enjoying the benefits of a compact machine.



ROBUST AND RELIABLE YANMAR ENGINE

Well proven Yanmar 4TNV engines: 4-cylinder engine with direct injection and common rail system. This engine is also equipped with a cooled EGR and a DPF, which allow the machine to meet EU emission regulations. Auto deceleration and Eco-mode are available in standard.



ViPPS HYDRAULIC SYSTEM

The Vi080-1 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.



BEST COMPONENTS

Developed in Japan with renowned components for top quality. Design and performance of the components made for long service life.





COMFORTABLE CABIN

Upgraded operator station: increased leg room, a "Universa Design" concept developed by Yanmar for an enhanced comfort and productivity, electronic instrumentation, great ergonomics and air suspension seat in standard.



EASY OPERATION

Control levers ideally located for exceptional movement precision. The Vi080-1 benefits of the proportional control of the tail swing, via the proportional switch located on the right-hand joystick.



SERVICEABILITY

5 hoods or openings allows easy access for components



HIGH PERFORMANCE

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

UNMATCHED COMPACTNESS



THE VIO80-1 OFFERS THE PERFORMANCE OF A LARGE EXCAVATOR WHILE ENJOYING THE BENEFITS OF A COMPACT EXCAVATOR. PARTICULARLY SUITED FOR WORK IN URBAN AREAS, IT CAN OPERATE WITH CONFIDENCE AND EFFICIENCY ALONG THE WALLS AND IN CONFINED SPACES WHERE THE MACHINES IN ITS WEIGHT CLASS DO NOT HAVE ACCESS.



YANMAR TRUE ZTS

ADVANTAGES OF THE VIO DESIGN

Neither the counterweight, nor the front part of the upper frame project beyond the track width. With its front part designed not to extend over, the ViO80-1 is a true zero tail swing excavator:

- + 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.

MAXIMUM STABILITY

AND EXCEPTIONAL LIFTING FORCE

The ViO80-1 is equipped with the VICTAS® system whose strength lies in the increase of the support surface and increase in tracking through the use of asymmetric crawlers. This system, patented by Yanmar, reduces track degradation, makes displacements quieter and reduces vibration. Associated with the use of a large counterweight and excellent weight distribution, it provides the same or even higher stability than conventional machines in the same weight class, as well as remarkable lifting capacities.





UNIQUE UNDERCARRIAGE

The X-shaped box-section structure of the undercarriage provides excellent torsional stiffness. The frame is designed for maximum durability. All the components of the undercarriage have been designed to increase the durability and the service life of the machine and reduce its Total Cost of Ownership.



DUAL AXIS POSITION OF THE ARM CYLINDER

When using a quick hitch, the dual position of the arm cylinder axis makes for scalable kinematics and prevents collisions with the boom while maintaining digging force.



ADVANCED TECHNOLOGY

Based on unique experience and expertise, Yanmar technology ensures excellent performance while respecting the environment. The Vi080-1 combines power, flexibility and precision. Its versatility makes it the ideal partner to improve your productivity, regardless of the work site complexity you are facing (excavation, grading, demolition, backfilling...).

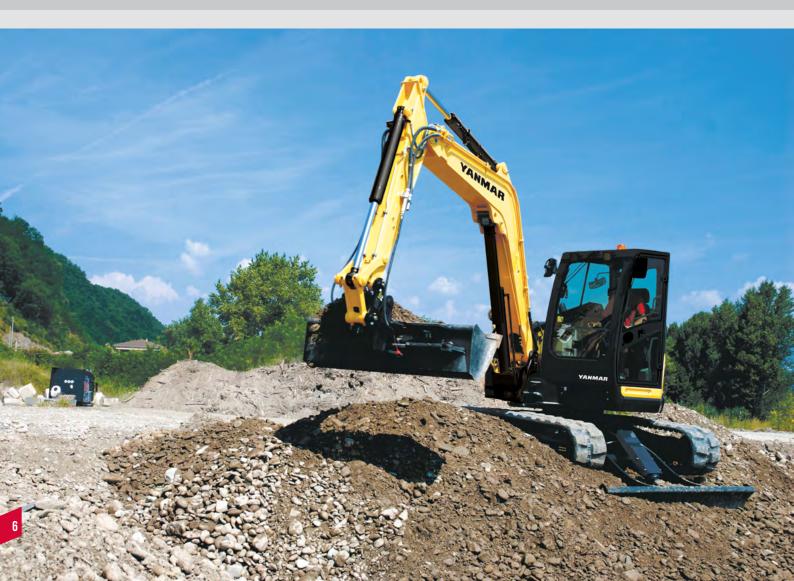


NEW GENERATION ELECTRONICALLY CONTROLLED YANMAR ENGINE

With an net power of 39.3 kW at 1900 rpm, Yanmar's 4TNV98C-WBV engine is the result of our continuous efforts to achieve technological advances in fuel consumption and emissions. With the Vi080-1, Yanmar gives priority to the environment and to fuel savings:

- + An ECU manages the RPM according to the torque, optimizing the engine load. This enables to save fuel while increasing the productivity of the machines.
- + An Auto-Deceleration system (in standard) further reduces fuel consumption by enabling the engine to drop back to idle if the operator doesn't touch the operating levers for 4 seconds.
- An Eco-Mode (in standard) effectively controls the motor speed, thus allowing a very low fuel consumption.
 Particularly useful when working require little power and low speed of movement, the Eco-mode saves fuel and reduces operating costs.





IMPROVED HYDRAULIC CONTROL

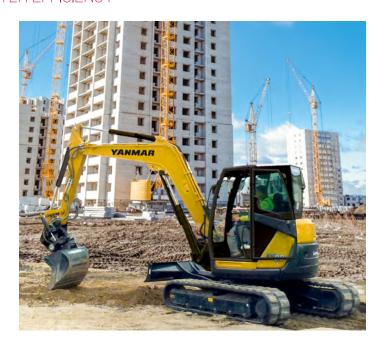
FOR EASIER HANDLING AND GREATER EFFICIENCY

VIPPS® HYDRAULIC CIRCUIT (VIO PROGRESSIVE 3 | PUMP SYSTEM)

The Vi080-1 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 193,8 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.

REGULATION OF HYDRAULIC SYSTEM BASED ON ENGINE SPEED

The new electronic hydraulic pump regulator adjusts its flow rate based on engine performance. Thus engine power is perfectly exploited and machine performance is optimized.



OUTSTANDING PERFORMANCES

Features of a large excavator in a compact format

The breakout forces of 63.5 kN (bucket) and 40.8 kN (arm) are exceptional for an 8 ton excavator with zero tail swing. Associated with a digging depth of 4130 mm (3780 mm for vertical wall) and excellent traction force, they allow the Vi080-1 to carry out major work such as laying pipes or excavation and clearing operations for large area such as the laying of pipeline pipes or the excavation and clearing of large areas.

REGULATION OF HYDRAULIC SYSTEM BASED ON ENGINE SPEED

The new electronic hydraulic pump regulator adjusts its flow rate based on engine performance. Thus engine power is perfectly exploited and machine performance is optimized.



CONFORT



LARGE AND COMFORTABLE CABIN

Designed to meet the operator needs, the ViO80-1 cab is large and pleasant. The attention paid to the work environment and ergonomics makes you feel comfortable during long days on site. The increased visibility and a comfortable operator station allow the operator to be even more productive while reducing fatigue.







CONTROL PANEL



- 1 Beacon light
- 2 Light switch
- 3 Auto Deceleration system
- 4 Eco-Mode
- **5** Travel speed switch
- 6 Working light
- Wipers
- 8 DPF
- 9 Overload warning
- 10 Quick hitch



PERFECT COCKPIT ERGONOMICS

The architecture inside the cab Vi080-1 has been studied to improve the operator driving position and to facilitate its work, particularly on the long and challenging work sites. The wrist supports are adjustable. The wide travel pedals and hydraulic control levers are fluid and easy to use. Ideally located, the control levers offer exceptional movement precision.

AIR CIRCULATION

The Vi080-1 has an air conditioning that can work at a comfortable temperature whatever the weather. Vents are placed to ensure a homogeneous temperature within the cab and a perfect window demisting. The air filters are easily accessible for an improved maintenance.

AIR SUSPENSION SEAT

The Vi080-1 is equipped in standard with an air suspended seat to offer an optimal comfort for a machine of this weight class. Fully adjustable and with a headrest, it reduces body tension and fatigue.

STORAGE SPACES

The ViO80-1 offers many storage possibilities conveniently placed: cup and bottle holder, utility box, document storage... The operator has all his personal belongings within reach.

EASE OF USE



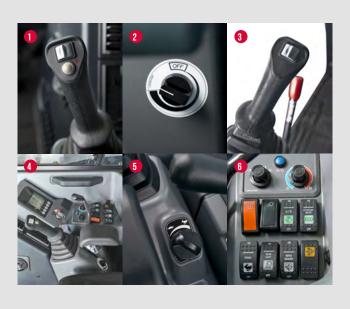
ADJUSTABLE PROPORTIONAL CONTROLOF THE AUXIARY CIRCUITS

The Vi080-1 is equipped in standard with two auxiliary hydraulic lines with proportional control on joystick combined with fine adjustment. The proportional control adapts the hydraulic flow of oil to the use and needs of each attachment. The operator takes perfect control of attachments.

AUTOMATIC 2ND SPEED

The ViO80-1 has an automatic second speed for long displacements. A power switch keeps the machine in 1st gear for difficult passages (slope, counter-rotation, etc...).

- 1 Control of the 1st auxiliary hydraulic circuit
- 2 Flow adjustment via potentiometer of the 1st auxiliary circuit
- 3 Control of the 2nd auxiliary hydraulic circuit
- 4 Flow adjustment via potentiometer of the 2nd auxiliary circuit
- Engine power controlled electronically by a potentiometer
- 6 Right hand side control panel (A/C and switches)



SAFETY

The structure of the ViO80-1 cabin has been designed to meet the ROPS certification (Roll-Over Protective Structure) as well as the FOPS (Falling Object Protective Structure) level 1.

ALL AROUND VISIBILITY

The large Vi080-1 cabin windows provide the operator with excellent visibility around the machine. The front windshield, divided into two parts, is fully retractable and the windows on the right-side slide. The operator can easily communicate with other workers. The 360° visibility ensures optimum safety on the work site and makes work more efficient.

The Vi080-1 is equipped with 5 rear and side mirrors. The operator can control the work area as well as the area around the machine without moving from his seat.

The front part of the roof is transparent and provides full control of the bucket to the operator during loading or demolition.



LED LIGHTING:

EFFICIENCY AND LOW CONSUMPTION

In order to work safely, efficiently and with accuracy in the darkness, the ViO80-1 comes standard with 3 LED lights positioned in the inner part of the boom and at the front of the cabin. The LED technology provides a powerful light while reducing energy consumption which increases the service life of the battery. In option, a beacon light can be added to the rear of the cab.

ACCESSIBILITY

The Vi080-1 benefits from a large cabin entrance. This passage makes the entrance and the exit easier and improves significantly the operator's comfort and safety.

Entrance and exit are even more facilitated by 3 handrails which are ideally designed and positioned to fit the operator's posture and grip position.

A large footstep with antislip system also upgrades the accessibility to the machine and the safety of the operator.





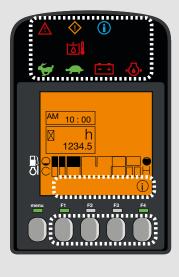
RELIABILITY

The Vi080-1 perfectly meets the reputation for quality and durability of the Yanmar machines. The excellent accessibility to components and speed of maintenance and cleaning operations allow achieving excellent levels of onsite availability. Assured of his machine's performance, the operator can calmly work.

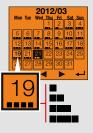
The structure of the undercarriage, as well as the steel covers provide an optimal protection and longer service life. Furthermore, a lot of care has been paid to the hose routing on the working equipment. These measures enhance the service life and reduce downtime of the machine.

DIGITAL INTERFACE

The Vi080-1 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 for maintenance intervals and to program such 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, compressor, radiator, refuelling pump, battery, fuel tank, hydraulic oil tank alternator, engine oil dipstick, water separator, coolant level, etc... A flat floor mat makes cleaning easier.

LONG SERVICE INTERVALS

The Vi080-1 is designed for working, and therefore its service intervals are reduced to a minimum.



SMARTASSIST REMOTE

SmartAssist Remote is the new fleet management system developed by Yanmar which gives you optimal visibility on your equipment location and status using the lastest telematic technology. This compact piece of equipment, available on Vi080-1, will help you maximize your work potential. By providing realtime information, it gives you total control and lets you monitor and manage your machines remotely via a PC or Smartphone.



EQUIPMENT

[STANDARD EQUIPMENT]

PERFORMANCE

4TNV98C Yanmar diesel | Direct injection | Engine Control Unit (ECU) | Eco-Mode | Auto-Deceleration System | ViPPS Hydraulic system (ViO Progressive System) | Proportional 3rd and 4th hydraulic circuit lines to boom end with potentiometer to fine tune the flow (32l/min - 120l/min) | Safety valves on blade, boom and arm cylinders | Automatic 2nd speed | Battery quick connector | External hydraulic oil gauge | SmartAssist Remote (GPS and fleet management system) | 2 front LED working lights on the cabin + 1 LED light integrated into the boom

COMFORT

LCD interface | Adjustable and reclining seat with fabric covers, air suspension and headrest | Air conditioning | Adjustable wrist support |
Foot rests | Wide travel pedals | Windshield with 2 fully retractable parts | Sliding double right-side window | Transparent upper front part |
Integrated sunshades | Wipers | Windshield washer | Automatic ceiling lamp | Radio with USB port | 2 x 12V outlet | Storage boxes

SAFETY AND DURABILITY

Handrails | Safety lever | Seat belt with retractor | Evacuation hammer | Anchor points | 3 mirrors | Horn | Blade cylinder supply hose into two parts | Complete protection of the cylinders (bucket, boom, arm and blade) | Hoses protected by abrasion resistant sleeves | Lockable covers | Electric refuelling pump

MISCELLANEOUS

Fuel gauge | Toolbox | Toolkit | Grease pump

[OPTIONAL EQUIPMENT]

EQUIPMENT AND PERFORMANCE

Steel crawlers | Pads for steel crawlers | Long arm (+350 mm) | Additional counterweight (+400 kg) | Prolongation 3rd and 4th hydraulic circuits lines to arm end | Clamshell bucket circuit | Quick hitch line 150-165 bar (+/- 3) | Kit flat face hydraulic quick connectors | Clamshell bucket circuit | Additional counterweight (+400 kg) | Quick couplers | Bio oil | 1 LED beacon fixed or with magnetic base | Kit 1 rear LED light + 1 beacon fixed | Improved fuel filtration

COMFORT AND EASE OF USE

Adjustable and reclining seat with skaï covers, air suspension and headrest | Seat cover | Documentation box | Central greasing

SECURITY AND DURABILITY

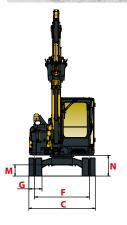
Safety valves for lifting + overload warning | FOPS 2 protection (front + top guard) | Anti-theft device (key/keyboard) | GPS Tracking | Travel alarm

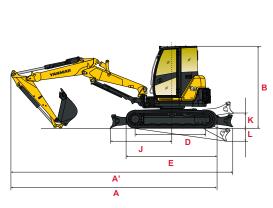
[ATTACHMENTS]

Yanmar gives you the attachment that fit your needs and match the safety standards in force in your country: mechanical quick coupler, hydraulic quick coupler, powertilt, standard, grading or symmetric buckets, hydraulic breaker, tiltrotators...



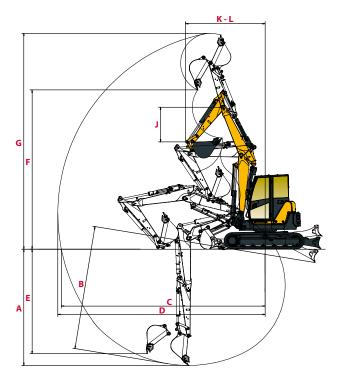
DIMENSIONS

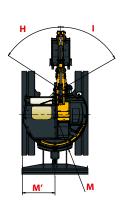






A Overall length	6410 / 6450* mm	H Overall blade width	2260 mm
A' Overall length with blade at the back	6920 / 6960* mm	Overall blade height	450 mm
B Overall height	2710 mm	J Blade distance	1990 mm
C Overall width	2270 mm	K Max. lifting height above the ground	460 mm
D Length of track on ground	2290 mm	L Max. lowering depth from the ground	480 mm
E Undercarriage length	2890 mm	M Minimum ground clearance	380 mm
F Lane	1870 mm	N Ground clearance under counterweight	700 mm
G Track width	450 mm		





A	Max. digging depth - Blade lifted	4130 / 4500* mm	Н	Boom swinging base to left	57°
В	Max. digging depth - Blade lowered	4430 / 4790* mm	1	Boom swinging base to right	60°
C	Max. digging reach on ground	6820 / 7160* mm	J	Arm length	1650 / 2000* mm
D	Max. digging reach	6960 / 7290* mm	K	Front turning radius	2470 / 2520* mm
Е	Max. vertical wall	3780 / 4130* mm	L	Front turning radius with boom swing	2130 / 2170* mm
F	Max. unloading height	4700 / 4950* mm	М	Rear turning radius	1135 mm
G	Max. cutting height	6810 / 7020* mm	M'	Rear turning radius with additional counterweight	1265 mm

^{*} Long arm

LIFTING FORCES





Tipping load, rating over side 90°

							Standard o	ounterweig	ht, standard	arm							لير
				ade on grou						Blade above ground							
Α	M	ax	5	m	4	m	3 m		Max		5	1	4		3		
В		J		J		J		J		J		J		J		J	
5 m	1730	1750	-	-	1740	1750	-	-	1720	1740	-	-	1740	1720	17-20	17-20	
4 m	1100	1680	1190	1680	1770	1780	-	-	1090	1150	1190	1250	1770	1750	17-20	17-20	
3 m	960	1690	1210	1780	1740	2080	2490	2500	950	1010	1200	1270	1720	2060	2480	2480	
2 m	880	1660	1190	1920	1740	2480	2500	3400	870	920	1190	1260	1730	1860	2460	2650	
1 m	870	1680	1140	2080	1630	2860	2230	3860	860	900	1140	1210	1620	1720	2190	2350	С
0 m	910	1710	1110	2130	1580	2920	2220	3880	890	940	1100	1160	1560	1630	2180	2320	
-1 m	990	1690	1110	2010	1590	2740	2370	3750	970	1100	1100	1140	1560	1650	2340	2540	
-2 m	1200 1360	1610 1350	-	-	1590	2260	2620 1560	3740 1560	1190 1360	1270 1650	-	-	1570	1640	2600 1560	3000 1550	
-5111	1300	1330	_	_		_			eight, long a			_			1300	1550	
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В		J		J		J		4		J				J		J	
5 m	1610	1610	-	-	1530	1530	-	-	1610	1610	-	-	1530	1530	-	-	
4 m	1050	1570	1240	1530	1570	1570	-	-	1060	1080	1250	1280	1570	1570	-	-	
3 m	920	1560	1210	1630	1810	1810	-	-	890	920	1220	1260	1810	1810	-	-	
2 m	820	1560	1160	1800	1640	2210	2520	3130	820	860	1160	1230	1640	1740	2530	2640	С
1 m	790	1570	1120	1950	1540	2530	2250	3680	790	830	1120	1180	1530	1640	2250	2420	
-1 m	800	1600 1630	1060 1050	2030	1470 1410	2700 2730	2160 2150	3840 3750	800 870	840 820	1060 1060	1160 1110	1450 1420	1600 1540	2140 2150	2370 2380	
-1 III	1020	1580	1060	1690	1440	2360	2160	3190	1000	1070	1040	1120	1420	1510	2140	2320	
-2 111	1020	1300	1000	1030	1440				pht, standar		1040	1120	1420	1310	2140	2320	
			W	ith tiltrotato	ır*							Without	tiltrotator				
Blade on	ground		W	ith tiltrotato	or*		Blade abov	e ground	Blade on	ground		Without	tiltrotator		Blade abov	e ground	
Blade on		ax.		m		m		m		ground ax.	5	Without m		m		m	
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A B 5 m 4 m	M:		1136 1136 1156	m 1432 1206 1532	1522 1522 1746	1532 1502 1832	3	m	1730 1720 1260 1250 1100	1750 1740 1680 1310	1350 1350 1370	m - 1680 1420 1780	1740 1740 1770 1770 1960	1750 1720 1780 1750 2080	- 1720 - 1720 2490	- 1720 - 1720 2500	
A B 5 m 4 m 3 m	M:	-	1136 1136 1146	m - 1432 1206	4 - 1522 1522	- 1532 1502	3	m	1730 1720 1260 1250	1750 1740 1680	- 1350 1350	m - 1680 1420	1740 1740 1770 1770	1750 1720 1780 1750	- 1720 - 1720	m - 1720 - 1720	
A B 5 m 4 m		- - 1442 946 1412 846	1136 1136 1146 1136 1136 1136	m 1432 1206 1532 1226 1672 1226	1522 1522 1746 1726	- 1532 1502 1832 1812	3	m	1730 1720 1260 1250 1100 1020	1750 1740 1680 1310 1690 1160 1060	1350 1350 1370 1360 1350 1350	m 1680 1420 1780 1440 1920 1440	1740 1740 1770 1770 1960 1940 1940	1750 1720 1780 1780 2080 2080 2480 2070	- 1720 - 1720 2490 2480 2820 2790	1720 - 1720 2500 2480 3460 3010	
A B 5 m 4 m 3 m	886 876 806 786 776	- 1442 946 1412 846 1432 826	1136 1136 1146 1136 1136 1196 1086	1432 1206 1532 1226 1672 1226 1832 1166	1522 1522 1746 1726	- 1532 1502 1832 1812 2232	3	m	1730 1720 1260 1250 1100 1090 1020 1000 1000 990	1750 1740 1680 1310 1690 1160 1660 1680 1040	1350 1350 1370 1360 1350 1350 1310 1300	1680 1420 1780 1440 1920 1440 2080 1380	1740 1770 1770 1960 1940 1980 1850 1840	1750 1720 1780 1780 2080 2060 2480 2070 2860 1950	1720 - 1720 - 1720 2490 2480 2820 2790 2560 2520	1720 - 1720 - 1720 2500 2480 3460 3860 2700	C
A B 5 m 4 m 3 m 2 m	886 876 806 786	- 1442 946 1412 846 1432	1136 1136 1156 1146 1136 1136 1136	1432 1206 1532 1226 1672 1226 1832 1166 1882	1522 1522 1746 1726	- 1532 1502 1832 1812 2232	3	m	1730 1720 1260 1250 1100 1000 1000 1000	1750 1740 1680 1310 1690 1660 1060 1680	1350 1350 1370 1360 1350 1350 1350	1680 1420 1780 1440 1920 1440 2080	1740 1740 1770 1770 1960 1940 1940 1950	1750 1720 1780 1750 2080 2060 2480 2070 2860	1720 - 1720 2490 2480 2820 2790 2560	1720 1720 2500 2480 3460 3010 3860	C
A B 5 m 4 m 3 m 2 m 1 m	886 876 806 786 776 836 836 816 926	- 1442 946 1412 846 1432 826 1462 866 1442	1136 1136 1156 1146 1136 1136 1096 1086	1432 1206 1532 1226 1672 1226 1832 1166 1882	1522 1522 1746 1726	- 1532 1502 1832 1812 2232	3	m	1730 1720 1260 1260 1100 1090 1000 1000 1000 101	1750 1740 1680 1310 1690 1160 1660 1060 1680 1040 1770 1080	1350 1350 1370 1360 1350 1310 1300 1270 1270	1680 1420 1780 1440 1920 1380 2130 2130 2010	1740 1770 1770 1770 1960 1940 1950 1840 1790 1780 1800	1750 1780 1780 1780 2080 2080 2480 2070 2860 1950 2920 1870 2740	1720 - 1720 - 1720 2490 2480 2820 2520 2520 2540 2510 2690	1720 1720 2500 2480 3460 3360 2700 3880 2670 3750	C
A B 5 m 4 m 3 m 2 m 1 m 0 m	886 876 806 786 776 836 816	- 1442 946 1412 846 1432 826 1462 866	1136 1136 1156 1146 1136 1136 1096 1086	1432 1206 1532 1226 1672 1226 1832 1166 1882	1522 1522 1746 1726	- 1532 1502 1832 1812 2232	3	m	1730 1720 1260 1250 1100 1020 1020 1020 1030 1140 1120 1370	1750 1740 1680 1160 1160 1660 1040 1710 1080 1690 1180 1610	1350 1350 1350 1350 1350 1350 1310 1270 1260	1680 1420 1780 1440 1920 1440 1920 1380 2130 1340	1740 1740 1770 1770 1960 1940 1960 1940 1850 1840 1790 1780 1800 1800	1750 1720 1780 1780 2080 2080 2480 2070 2860 1950 2920 1870 2740 1880 2260	1720 1720 2490 2480 2820 2560 2520 2540 2510 2690 2670 2950	1720 1720 2480 3460 2700 3880 2770 3750 2890 3740	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m	886 876 806 786 776 836 836 816 926	- 1442 946 1412 846 1432 826 1462 866 1442	1136 1136 1156 1146 1136 1136 1096 1086	1432 1206 1532 1226 1672 1226 1832 1166 1882	1522 1522 1746 1726	- 1532 1502 1832 1812 2232	3	m	1730 1720 1260 1250 11000 1000 1000 1000 1000 1050 1030 1140 1120 1370 1370 1360	1750 1740 1680 1310 1690 1660 1060 1680 1040 1710 1080 1690 1180 1610 1460 1350	1350 1350 1370 1360 1350 1310 1300 1270 1270	1680 1420 1780 1440 1920 1380 2130 2130 2010	1740 1740 1770 1770 1960 1940 1950 1940 1850 1840 1790 1780 1780	1750 1720 1780 1780 1750 2080 2480 2070 2860 1950 2920 1870 2740 1880	1720 - 1720 2490 2480 2820 2520 2540 2510 2690 2690 2690 2690 2690 2690 2690 269	1720 1720 2500 2480 3460 3010 3880 2700 3880 2670 3750 2890 3740 3360 1560	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m	886 876 806 786 776 836 836 816 926	- 1442 946 1412 846 1432 826 1462 866 1442	1136 1136 1156 1146 1136 1136 1096 1086	1432 1206 1532 1226 1672 1226 1832 1166 1882	1522 1522 1746 1726	- 1532 1502 1832 1812 2232			1730 1720 1260 1100 1090 1000 1000 1000 1000 1030 1140 1120 1370 1370 1360	1750 1740 1680 1160 1680 1160 1680 1040 1770 1180 1690 1180 1690 1180 1690 1180 1690 1180 1690 1180	1350 1350 1370 1360 1350 1310 1300 1270 1270	1680 1420 1780 1440 1920 1380 2130 2130 2010	1740 1740 1770 1770 1960 1940 1960 1940 1850 1840 1790 1780 1800 1800	1750 1720 1780 1780 2080 2080 2480 2070 2860 1950 2920 1870 2740 1880 2260	1720 - 1720 - 1720 2490 2480 2820 2520 2520 2540 2670 2950 2950 2930	1720 1720 2500 2480 3460 2700 3880 2770 3750 2890 3740 3360 3360	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m	886 876 806 786 776 836 836 816 926	- 1442 946 1412 846 1432 826 1462 866 1442	1136 1136 1136 1146 1136 1136 1136 1096 1086 1056	1432 1206 1532 1226 1672 1226 1832 1166 1882	1522 1522 1746 1726 1726	- 1532 1502 1832 1812 2232			1730 1720 1260 1250 11000 1000 1000 1000 1000 1050 1030 1140 1120 1370 1370 1360	1750 1740 1680 1160 1680 1160 1680 1040 1770 1180 1690 1180 1690 1180 1690 1180 1690 1180 1690 1180	1350 1350 1370 1360 1350 1310 1300 1270 1270	m 1680 1420 1780 1440 2080 1330 2130 1340 2010	1740 1740 1770 1770 1960 1940 1960 1940 1850 1840 1790 1780 1800 1800	1750 1720 1780 1780 2080 2080 2480 2070 2860 1950 2920 1870 2740 1880 2260	1720 - 1720 2490 2480 2820 2520 2540 2510 2690 2690 2690 2690 2690 2690 2690 269	1720 1720 2500 2480 3460 3010 3880 2700 3880 2670 3750 2890 3740 3360 1560	С
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m	886 876 886 786 786 776 836 926 906	- 1442 946 1412 846 1432 826 1462 866 1442	1136 1136 1136 1146 1136 1136 1136 1096 1086 1056	1432 1206 1532 1226 1672 1226 1832 1166 1882 1126	1522 1522 1746 1726 1726	1532 1532 1832 1812 2232 1856		m 	1730 1720 1260 1100 1090 1020 1000 1000 1000 1000 1030 1140 1370 1370 1360 1360 1360	1750 1740 1680 1310 1690 1160 1660 1040 1770 1080 1690 1180 1690 1180 1690 1350 1350	1350 1350 1370 1360 1370 1380 1310 1310 1270 1270 1260	m 1680 1420 1780 1380 2130 1340 2010 1320	1740 1740 1770 1770 1960 1940 1980 1850 1840 1790 1780 1800 1780	1750 1720 1780 2080 2060 2480 2070 2860 1950 2920 1870 2740 1880 2260	1720 - 1720 2490 2480 2820 2520 2540 2510 2690 2690 2690 2690 2690 2690 2690 269	1720 1720 22500 2480 3460 3860 2670 3750 2890 3740 3360 1560 1550	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m	886 876 886 786 786 776 836 926 906	1442 946 1412 846 1432 826 1462 966	1136 1136 1156 1146 1136 1096 1086 1056	1432 1206 1532 1226 1672 1226 1832 1166 1882 1126	1522 1746 1726 1746 1726	1532 1532 1812 2232 1856	Additions	m 	1730 1720 1260 1090 1090 1000 1000 1000 1000 1000 10	1750 1740 1680 1160 1160 1680 1160 1680 1040 1770 1180 1690 1180 1690 1180 1690 1180	1350 1350 1370 1360 1370 1380 1310 1310 1270 1270 1260	1680 1420 1780 1440 1920 1440 1920 1380 2130 1340 2010	1740 1740 1770 1960 1960 1960 1960 1850 1850 1780 1780 1780 1800 1780 1780	1750 1720 1780 2080 2060 2480 2070 2860 1950 22740 1880 2260 1870	1720 - 1720 2490 2480 2820 2560 2520 2540 2670 2690 2690 2690 2690 1560 1560	1720 1720 22500 2480 3460 3860 2670 3750 2890 3740 3360 1560 1550	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m	886 876 806 776 836 776 816 926 906	1442 946 1412 826 1462 866 1442 966	1136 1136 1136 1136 1136 1096 1086 1056 1046	1432 1206 1532 1226 1672 1226 1832 1166 1882 1126 -	1522 1746 1726 1746 1726	1532 1532 1832 1812 2232 1856	Additiona	m	1730 1720 1260 1250 1100 1020 1020 1020 1030 1050 1030 1140 1370 1370 1360 1360 1360 1360	1750 1740 1680 1160 1160 1160 1160 1060 1060 106	1350 1350 1370 1360 1350 1310 1310 1270 1260 1270 1260	m 1680 1420 1780 1440 2080 1330 2130 1320	1740 1770 1770 1960 1940 1980 1840 1790 1780 1800 1780 1800 1780 1800 1780 178	1750 1720 1780 2080 2060 2480 2070 2860 1950 2920 1870 2740 1880 2260 1870	1720 1720 2480 2480 2820 2520 2540 2670 2950 2950 1560 3	1720 1720 2500 2480 3460 2700 3880 2770 3750 2890 3750 2890 3750 1550	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m A B	886 876 806 786 776 836 816 926 906	1442 946 1412 846 1432 826 1462 966 1442	1136 1136 1146 1146 1136 1096 1086 1056 1046	1432 1206 1532 1226 1672 1166 1882 1126 -	1522 1522 1746 1726 1746 1726 1746 1726	1532 1532 1832 1812 2232 1856	Additions	m 	1730 1720 1260 1250 1100 1020 1020 1020 1020 1030 1140 1120 1370 1360 1370 1360 1360 1360 1360	1750 1740 1680 1310 1690 1160 1060 1680 1040 1710 1080 1180 1180 1350 1350 1350 1350	1350 1350 1370 1350 1350 1350 1350 1310 1270 1260 1270 1260	1680 1420 1780 1440 1920 1440 2080 1380 2010 1320	1740 1770 1770 1770 1960 1940 1950 1940 1850 1800 1780 1780 1780 1780 1780 1780 178	1750 1770 1780 1780 2080 2060 2480 2070 2860 1950 2920 1870 2740 1880 2260 1870	1720 1720 2490 2480 2820 2520 2540 2520 2540 2670 2950 1560 1560	1720 1720 2500 2480 3460 2700 3880 2770 3750 2890 3750 2890 3750 1560 1550	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m A B	888 876 806 786 776 836 816 926 906	1442 946 1412 826 1432 826 1442 966 1442 966	1136 1136 1136 1136 1136 1096 1086 1056 1046	1432 1206 1532 1226 1672 1126 1832 1126	1522 1746 1726 1746 1726 1746 1726 1746 1726	1532 1832 1812 2232 1856 	Additiona	m	1730 1720 1260 1250 1100 1020 1020 1020 1030 1140 1120 1370 1360 1360 1360 1360 1360 1360 1360	1750 1740 1680 1160 1160 1160 1160 1060 1060 106	1350 1350 1370 1360 1370 1350 1310 1270 1260 1270 1260	m 1680 1420 1780 1440 1920 1440 2080 1380 2130 1340 2010 1320	1740 1770 1770 1770 1960 1940 1980 1850 1880 1780 1780 1800 1780 1780 1780 178	1750 1770 1780 1780 2080 2080 2080 20920 1870 2740 1880 2260 1870	1720 1720 2480 2480 2520 2520 2540 2510 2690 2950 1560 1560	1720 1720 2480 3460 2700 3880 2700 3750 2890 3740 3360 1560	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m A B 5 m 4 m	886 876 876 876 926 906	1442 946 1412 846 1432 826 1462 866 1442 966 	1136 1136 1136 1136 1136 1096 1086 1096 1046	m 1432 1206 1532 1226 1832 1126 1882 1126	1522 1746 1726 1746 1726 1746 1726 1750	1532 1812 1812 2232 1856 	Addition	m	1730 1720 1260 1250 1100 1020 1020 1020 1030 1140 1120 1370 1360 1360 1360 1360 1360 1360 1360 136	1750 1740 1680 1160 1160 1160 1160 1060 1060 106	1350 1350 1370 1380 1380 1310 1310 1270 1260 1270 1260	m 1680 1420 1780 1440 2080 1330 2130 1320 1450	1740 1770 1770 1960 1940 1980 1840 1780 1880 1780 1880 1780 1800 1780 1800 1780 1800 1780 1800 1780 1800 1780 1800 1780	1750 1750 1780 1780 2080 2060 2480 1950 2920 1870 2740 1870 2260 1870 1530	1720 1720 2480 2480 2560 2520 2540 2510 2690 2670 2950 1560 1560	1720 1720 2480 3460 2700 3880 2700 3750 3750 3760 1560 1550	
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m A B 5 m 4 m 3 m	886 876 886 7786 7786 926 906	1442 946 1412 846 1432 826 1442 966 1442 966 1570 1560	1136 1136 1136 1136 1136 1136 1096 1086 1056 1046 -	m 1432 1206 1532 1226 1672 1226 1832 1166 1882 1126 1530 1630	1522 1746 1726 1746 1726 1730 1530 1570 1810	1532 1812 1812 2232 1856 - - - - - - 1530 1570 1810	Addition	m	1730 1720 1260 1250 1100 1000 1000 1000 1370 1360 1360 1610 1200 1000 1000 1000 1000 1000 10	1750 1740 1680 1160 1160 1160 1160 1160 1080 1040 1710 1080 1690 1180 1350 1350 1350	1350 1350 1370 1360 1370 1350 1310 1270 1260 1270 1260 1270 1410 1380	m 1420 1420 1780 1380 2130 1340 2010 1320 1450 1430	1740 1770 1770 1960 1940 1850 1840 1780 1880 1780 1800 1780 1800 1780 1810 1530 1570 1810	1750 1750 1780 2080 2080 2080 2080 2280 1950 2920 1870 2740 1880 2260 1870 - 1530 1570	1720 1720 2480 2480 2560 2520 2540 2510 2690 2690 2690 2930 1560 1560	1720 2500 2480 3460 27700 3880 2670 3750 2890 3740 1550 1550 1 1500 1 1 1 1 1 1 1 1 1 1 1	C
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m A B 5 m 4 m 3 m 2 m	Min	1442 946 1412 846 1432 826 1442 966 1442 966 1560	1136 1136 1136 1136 1136 1136 1096 1086 1096 1046 - - - - 1410 1380 1320	1432 1206 1532 1226 1832 1166 1882 1126 1530 1630 1800	1522 1746 1726 1746 1726 1746 1750 1530 1570 1810 1850	1532 1812 1812 2232 1856 	Additiona	m I Counterw	1730 1720 1260 1250 1100 1000 1000 1000 1000 1370 1370 1360 1360 1360 1610 1200 1060 950	1750 1740 1680 1180 1160 1680 1160 1680 1040 1710 1080 1690 1180 1350 1350 1350 1350 1350 1350 1350 135	1350 1350 1370 1360 1370 1380 1310 1270 1260 1270 1260 1270 1410 1380 1320	m 1420 1420 1780 1380 2130 1340 2010 1320 1450 1440 1440 1440 1440 1440	1740 1770 1770 1960 1940 1850 1840 1780 1780 1780 1780 1780 1780 1780 178	1750 1750 1780 2080 2080 2080 2080 2280 2070 2860 1870 2740 1880 2260 1870 - - 1530 1570 1810	1720 1720 2480 2480 2520 2540 2510 2670 2930 1560 1560	1720 - 1720 2500 2480 3460 27700 3880 2670 3750 2890 3740 2990	
A B 5 m 4 m 3 m 2 m 1 m 0 m -1 m -2 m -3 m A B 5 m 4 m 3 m 2 m 1 m	Miles Mile	1442 946 1412 846 1432 826 1462 966 1442 966 1570 1560 1570	1136 1136 1136 1146 1136 1096 1086 1096 1046 	1432 1206 1532 1226 1832 1166 1882 1126 1530 1630 1800 1950	1522 1746 1726 1746 1726 1746 1750 1530 1570 1810 1850 1770	1532 1812 2232 1856 	Additions 3	m	1730 1720 1250 1100 1090 1020 1000 1000 1000 1370 1360 1360 1360 1000 1000 1000 1000 100	1750 1740 1680 1310 1680 1680 1040 1770 1890 1800 1800 1800 1800 1800 1800 180	1350 1350 1370 1360 1370 1380 1310 1270 1260 1270 1260 1270 1410 1380 1320 1280	m 1420 1780 1440 2080 1380 2130 1340 2010 1320 1450 1440 1430 1410 1350	1740 1740 1770 1960 1960 1980 1850 1780 1800 1780 1780 1800 1780 1780 1800 1780 1810 1850 1810 1850 1760	1750 1720 1780 2080 2080 2080 2480 1950 22740 1880 2260 1870 1530 1570 1810 1970	1720 - 1720 2490 2480 2820 2560 2550 2540 2670 2690 1560 1560 3 3 2860 2570	1720 - 1720 2500 2480 3460 3750 2880 3740 3360 1550 1550 1550 1550 1550 1550 1550 15	



SPECIFICATIONS



[WEIGHT +/- 2% (EN STANDARDS)]

	Transport weight*	Operating weight*	Ground pressure (Kgf/cm²)
Cabin version / Rubber crawlers	7990 kg	8065 kg	0,36
Cabin version / Steel crawlers	8050 kg	8125 kg	0,36
With additional counterweight	+ 40	0,4	
With FOPS II protection	+ 10	0 kg	-

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[ENGINE]

Туре	4TNV98C-WBV
Fuel	Diesel
Net Power	39,3 kW / 53,5 HP at 1900 rpm
Gross Power	41,5 kW / 56,2 HP at 1900 rpm
Displacement	3,318
Maximum torque	229 - 241 N.m
Cooling	Water-cooling
Starter	3 kW
Battery	12 V - 92 Ah
Alternator	12 V - 80 A



[HYDRAULIC SYSTEM]

Maximum pressure	255 bars
1 double piston pump with variable flow	2 x 70,3 l/min
1 gear pump	53,2 l/min
1 gear pump for pilot line	19 l/min

PTO	Theoretical data				
PIU	Pressure (bar)	Flow (l.min-1)			
2 ways	0 - 240	120 - 32			
1 way	0 - 240	120 - 32			



Oil flow decreases as the pressure increases

★ [PERFORMANCE]

Travel speed	2.5 / 4,5 km/h (2,3 / 4,1 km/h with steel crawlers)
Rotation speed	9 rpm
Digging force (arm)	40,8 kN / 35,9 kN with long arm
Digging force (bucket)	63,5 kN
Gradability	30°
Noise Level (2000/14/CE&2005/88/CE)	LWAG: 98 dBA ; LPAG: 73 dBA

[UNDERCARRIAGE]

Number of top rollers	1
Number of bottom rollers	5
Track tensioning system	Grease cylinder

[CAPACITIES]

Fuel tank	115
Coolant	9,3 l
Engine oil	11,2
Hydraulic circuit	112
Hydraulic tank	60 l

MAINTENANCE FREQUENCY





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