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GBVi075_0106

AMMANN
YANMAR

Midi-excavator

YANMAR

ViO75

Operating weight : 7720 kg

Arm digging force : 3900 kgf

Bucket digging force : 5590 kgf

Yanmar, inven
of the ZTS m

Midi-excavator

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tor and leader
ini-excavators

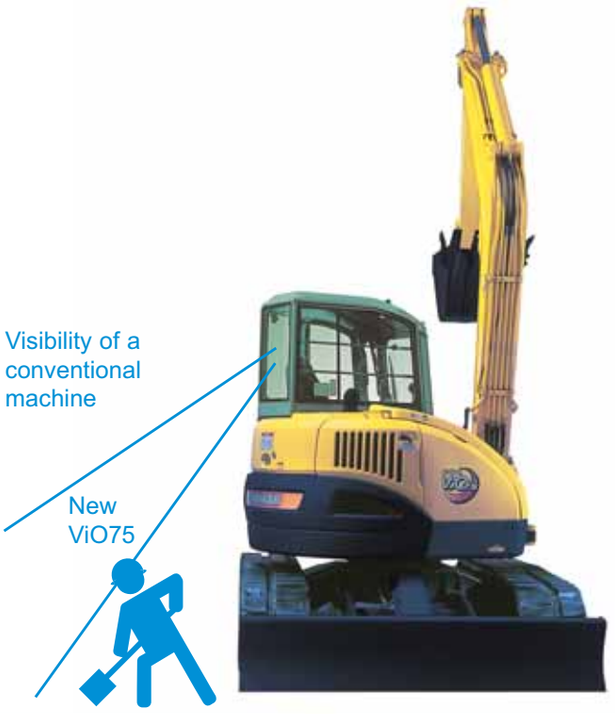
AMMANN YANMAR

Zero Tail Swing

Yanmar, inven
of the ZTS m

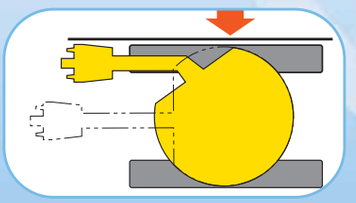
Design principles

- The ViO75 is a real Zero Tail Swing machine : neither the counterweight nor the front part of the upper frame exceed the width of the crawlers.
- Compact dimensions :
  - front swing radius with boom swing : 1700 mm ;
  - rear swing radius : 1130 mm ;
  - width of the machine reduced to 2270 mm.



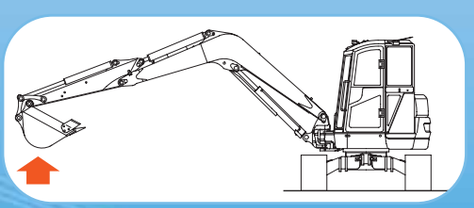
Advantages for the user

- 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 superb all-round visibility.
- Safety and productivity for the operator.
- Easier transport thanks to reduced width.



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 of 10%.



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Comfort and safety

New generation of high comfort cabin ROPS - FOPS 1 - TOPS

- The cabin is more spacious than most of the machines in the same weight class with or without zero tail swing.
- Large surface with windows for superb all-round visibility.

Easy access to pilot system

- Excellent width at the top and the bottom of the cabin.
- Large safety lever to lock working operations and travel.

Ergonomic pilot system

- Perfect position of joysticks, armrests and travel levers with pedals.
- Comfortable, multi-adjustable seat with safety belt : sliding seat, reclining backrest and weight.
- Defroster, heater, ventilation, inside lighting.
- Windscreen in 2 parts, stored overhead.
- Sliding side windows.
- Separate pedals for using the auxiliary power take-off line and swinging the boom. Sturdy covers which serve as footrests.

Modern & user-friendly instrument panel

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High performanc

Auxiliary circuit (PTO)

- Dual auxiliary circuit to add various accessories : hydraulic rock breaker, swivelling ditch cleaning buckets, concrete share, auger, etc.
- Pedal lock for use with manual hydraulic tools.

Exceptional stability

- Long undercarriage (2890 mm) for improved lateral stability.
- Higher side stability thanks to 5 carrier rollers with double flanges and the use of asymmetric crawlers.
  This “VICTAS®” system brings additional advantages :
  - better lifting capacity ;
  - less ground damage ;
  - less track wear ;
  - noise- and vibration-free travel.

Reliability and ac

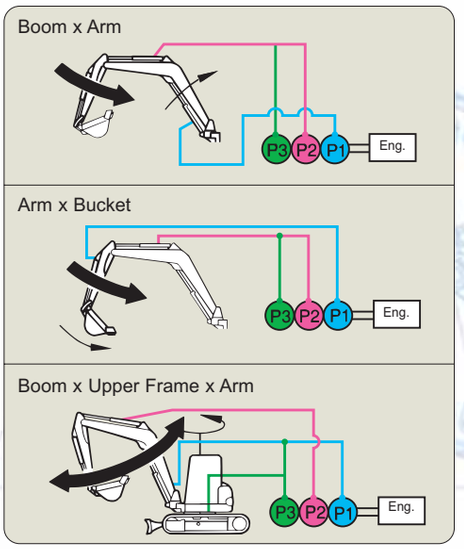
A new-generation Yanmar “TNV” (Totally New Value) engine

- 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 new TNV series exceeds the most stringent emissions standards.

ce

Power and Productivity

- VIPPS® hydraulic circuit
  (ViO Progressive 3 Pumps System) fitted with a variable-flow dual piston pump, a gear pump and a multiple-combination directional control valve :
  - increased working speed due to the cumulative pump capacities ;
  - smooth, simultaneous operation of all functions, even when travelling.
- Shock absorber on boom and arm cylinders.



Environmentally friendly

- Combination of a high-performance Yanmar engine and the VIPPS® hydraulic system :
  - less noise ;
  - reduced fuel consumption ;
  - less exhaust fumes.
- Exhaust gas vented vertically.

Electrical control of engine speed (mini or maxi)

- time saving ;
- less fuel consumption.

2nd speed command (pedal in front position)

Control of engine speed

2nd speed command

ccessibility

Miscellaneous protective devices

- Careful routing of hydraulic pipes and hoses on top of the boom.
- Integrated working lamp.
- Protection on boom and blade cylinders.

Robust undercarriage

- The angular shape of the undercarriage makes it possible to eject earth and deposits of foreign matter.
- Crawlers equipped with small metal inserts with short pitch for a more comfortable ride.

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 :
  - hydraulic oil level ;
  - top up for oil, water and diesel ;
  - control of battery ;
  - inspection of fan belt and hydraulic filters.
- Quick access to control valve by removing side panel.

TECHNICAL SPEC

Engine

Yanmar Diesel 4 cylinders	4TNV98-XBV
Rated Output (DIN 6270B)	43.4 kw/58.2 HP/2000 rpm
Displacement	3318 cm^3
Max. torque	251 N.m./1200 rpm

Hydraulic circuit

System capacity	100 l
Max. pressure	245 bar
Variable flow dual piston pump	2 x 74 l/mn
1 gear pump	1 x 60.4 l/mn

Performances

Travelling speed*	2.7/4.7 km/h - 2.5/4.5 km/h	Grade ability	30°
Swing speed	10 rpm	Shoe width	450 mm
Digging force (arm/bucket)	3900/5590 kgf	Ground clearance	380 mm
Boom swing (L/R)	68°/68°	Blade (width x height)	2260 x 450 mm
Ground pressure*	0.342/0.346 kg/cm^2		

*rubber crawlers/steel crawlers

Miscellaneous

Fuel tank	100 l
Cooling system	8.7 l
Transport dimensions (L x w x h)	6285 x 2270 x 2715 mm
Noise level LwA (2000/14/EC & 2005/88/EC)	98 dBA

Optional equipment

- Special paint
- Air conditioning
- Anti-theft device
- Beacon light, yellow
- FOPS 2 protection bars on cab roof
- 4th hydraulic circuit
- Safety device for loading
- Electric refuelling pump

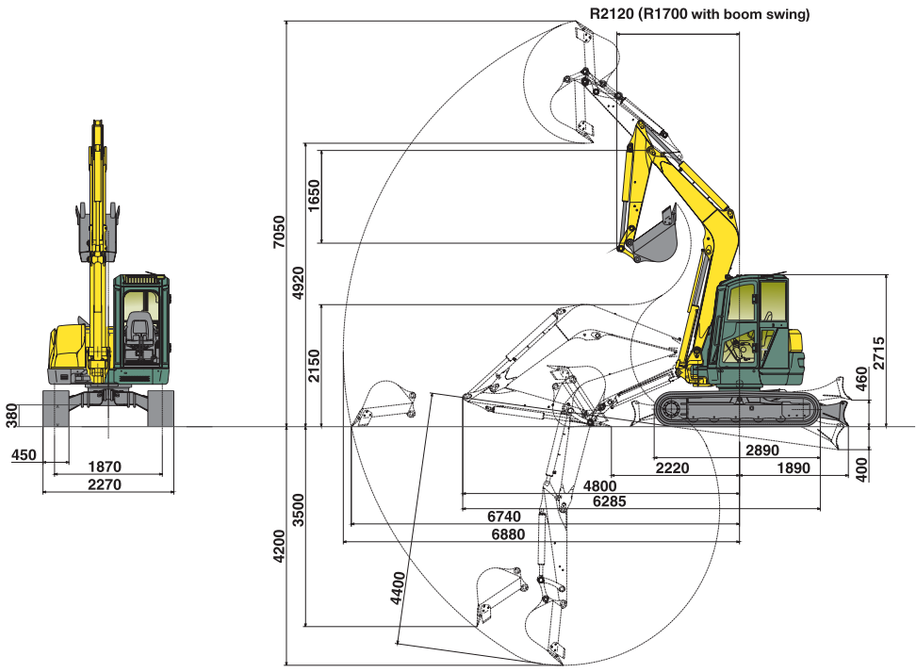
PTO	Theoretical data	
	Pressure	2000 rpm
	0 ~ 245 bar	134.4 ~ 92.5 l/mn
	0 ~ 245 bar	134.4 ~ 92.5 l/mn

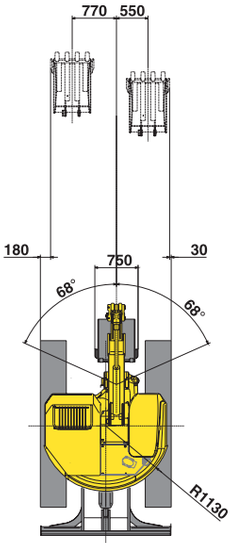
⚠ • The output reduces as the pressure increases.

IFICATIONS

Operating weight +-2% :

7720 kg (rubber crawlers)
7770 kg (steel crawlers)





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

Blade on ground

A	Maxi		5.0 m		4.0 m		3.0 m		
B									
5.0	*1510	*1510	-	-	*1580	*1580	-	-	C
4.0	1080	*1530	-	-	*1530	*1530	-	-	
3.0	900	*1530	1060	*1580	1510	*1790	-	-	
2.0	790	*1530	1010	*1730	1470	*2160	2330	*3230	
1.0	770	*1580	980	*1870	1400	*2500	2170	*3690	
0	790	*1600	980	*1930	1370	*2550	2160	*3580	
- 1.0	860	*1580	970	*1800	1370	*2410	2190	*3450	
- 2.0	1100	*1530	-	-	1330	*2020	2300	*2810	
- 3.0	*1300	*1300	-	-	-	-	*1490	*1490	

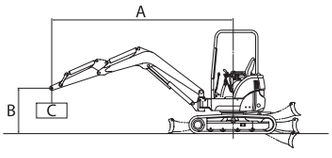
Blade above ground

A	Maxi		5.0 m		4.0 m		3.0 m		
B									
5.0	*1510	*1510	-	-	*1580	*1580	-	-	C
4.0	1080	1100	-	-	*1530	*1530	-	-	
3.0	870	900	1040	1130	1510	*1790	*2280	*2280	
2.0	770	830	1010	1070	1470	1540	2300	2410	
1.0	760	800	980	1040	1400	1460	2120	2260	
0	800	820	970	1010	1320	1400	2120	2150	
- 1.0	850	950	950	1010	1340	1400	2130	2270	
- 2.0	1070	1100	-	-	1330	1400	2130	2300	
- 3.0	*1300	*1300	-	-	-	-	*1490	*1490	

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.

**Machine with cabin,
rubber crawlers,
bucket of 195 kg (750 mm).**

A : Overhang from rotational axis (m).
B : Height of hooking point (m).
C : Safe working load (kg).



Tipping load,
rating over front

Tipping load,
rating over side 90°