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GBVi025_0106

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ViO25

Mini-excavator

YANMAR

ViO25

Operating weight : 2770/2665 kg

Arm digging force : 1500 kgf

Bucket digging force : 2500 kgf

Yanmar, inven
of the ZTS m

Mini-excavator

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tor and leader
ini-excavators

ViO25

AMMANN YANMAR

Zero Tail Swing

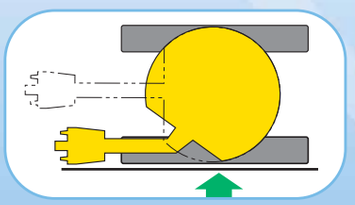
Yanmar, inven
of the ZTS m

Design principles

- ViO25 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 : 1600 mm ;
  - rear swing radius : 725 mm ;
  - width of the machine reduced to 1450 mm.

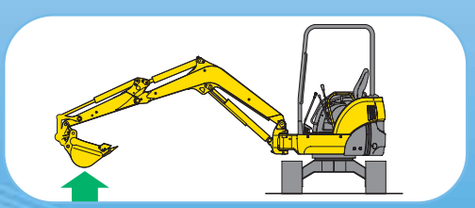
Advantages for the user

- 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.



Mini-excavator

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Performance

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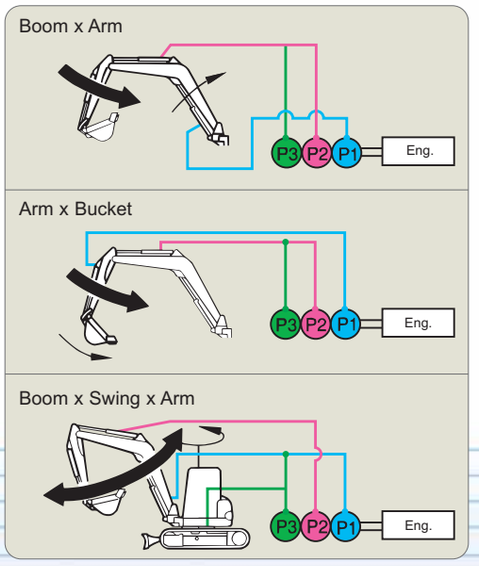
Hydraulic circuit “VIPPS®” (ViO Progressive 3 Pumps System)

- Hydraulic circuit using a variable flow double-piston pump, a gear pump and a multiple combination control valve.
- Oil flow from all pumps on demand for a higher work speed.
- Powerful and simultaneous operations, even during travel.



Working equipment

- Standard auxiliary circuit (PTO) until arm end.
- Integrated working lamp.
- Clean routing of flexible hoses in and on the boom.
- Cylinder protection on boom.
- Stop valve of bucket cylinder

Integrated working lamp

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Comfort and sa

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 to 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).

Cabin version

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

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.

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afety

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.

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 rock breaker, auger...).
- Second speed.
- Dual-action auxiliary circuit with the right joystick allowing a higher precision (for example : swivelling ditch cleaning bucket).

Action possible with the joystick

Single-action auxiliary circuit with pedal

Second speed

accessibility

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.

TECHNICAL SPEC

Engine

Yanmar Diesel 3 cylinders	3TNV76-NBVA
Rated Output (DIN 6270B)	15.2 kw/20.7 HP/2500 rpm
Displacement	1115 cm^3
Max. torque	68.6 N.m./1800 rpm

Hydraulic circuit

System capacity	39 l
Max. pressure	210 bar
Variable flow dual piston pump	2 x 30 l/mn x 210 bar
1 gear pump	1 x 21.5 l/mn x 170 bar

Performances

Travelling speed*	4.0/2.6 km/h	Grade ability	30°
Swing speed	9.5 rpm	Shoe width	260 mm
Digging force (arm/bucket)	1500/2500 kgf	Ground clearance	320 mm
Boom swing (L/R)	47°/75°	Blade (width x height)	1450 x 280 mm
Ground pressure**	0.31/0.30 kg/cm^2		

* rubber crawlers ** cabin/canopy

Miscellaneous

Fuel tank	28.5 l
Cooling system	2.9 l
Transport dimensions (L x w x h)	4100 x 1450 x 2528 mm
Noise Level LwA (2000/14/EC & 2005/88/EC)	93/93 dBA*

* cabin/canopy

Optional equipment

- Special paint
- Bio Oil
- Long dipper arm (+ 250 mm)
- Arm extension (+ 500 mm)
- Safety device for loading
- Anti-theft device

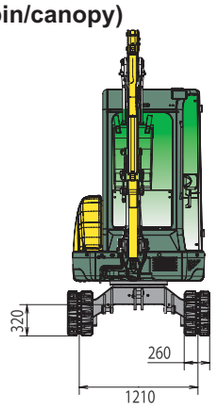
PTO	Theoretical data	
	Pressure	2500 rpm
	0 ~ 170 bar	51.5 ~ 27.5 l/mn
	0 ~ 170 bar	51.5 ~ 27.5 l/mn

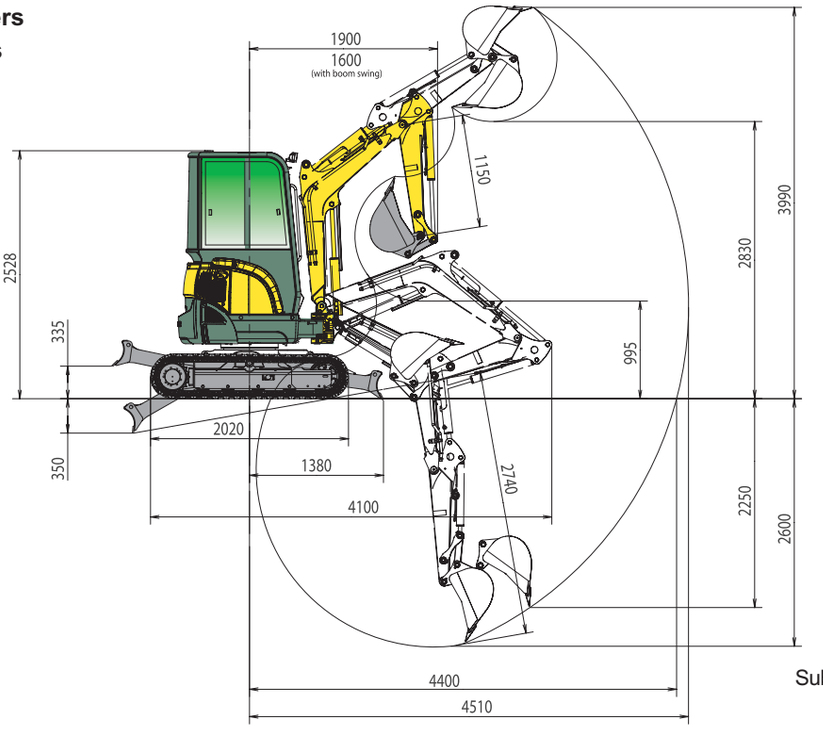
⚠ • The output reduces as the pressure increases.

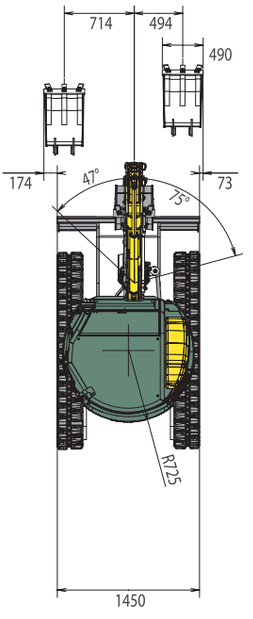
IFICATIONS

Operating weight +-2% :

2770/2665 kg rubber crawlers
2890/2785 kg steel crawlers
(cabin/canopy)







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

Blade on ground

A	Maxi		3.0 m		2.5 m		2.0 m		
B									
3.0	395	*520	-	-	-	-	-	-	
2.5	320	*510	*450	*450	-	-	-	-	
2.0	275	*490	*510	*510	-	-	-	-	
1.0	250	*510	385	*655	530	*820	730	*1160	C
0	250	*525	380	*725	490	*920	680	*1310	
- 1.0	340	*525	370	*620	490	*840	700	*1135	
- 1.5	*480	*480	-	-	*600	*600	*830	*830	

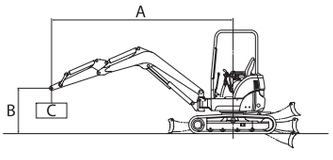
Blade above ground

A	Maxi		3.0 m		2.5 m		2.0 m		
B									
3.0	395	*490	-	-	-	-	-	-	
2.5	320	395	*450	*450	-	-	-	-	
2.0	275	335	*510	*510	-	-	-	-	
1.0	250	305	385	470	530	635	730	910	C
0	250	310	380	455	490	605	680	845	
- 1.0	340	395	370	450	490	605	700	890	
- 1.5	*480	*480	-	-	*600	*600	*830	*830	

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 cab,
rubber crawlers,
bucket of 78 kg (400 mm).**

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



Tipping load,
rating over front

Tipping load,
rating over side 90°