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B25V

Mini-excavator

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B25V

Operating weight : 2790/2690 kg

Arm digging force : 1450 kgf

Bucket digging force : 2040 kgf

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Mini-excavator

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B25V

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Performance

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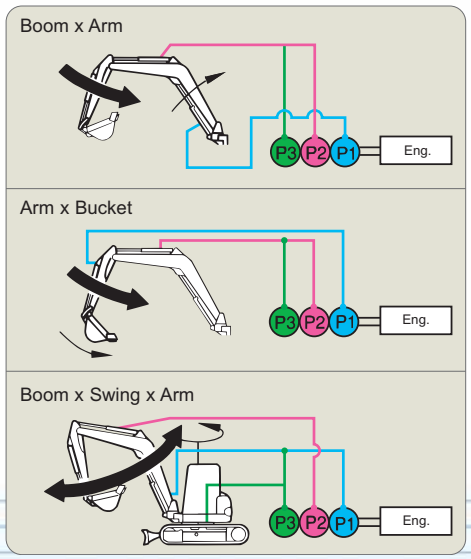
Hydraulic circuit "VIPPS®" (ViO Progressive 3 Pumps System)

- 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.



B25V

Working equipment

- Standard auxiliary circuit (PTO) until arm end.
- Stop valve for direct return to the tank.
- Pedal lock for use with manual hydraulic tools.
- Cylinder protection on boom.

Mini-excavator

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Reliability

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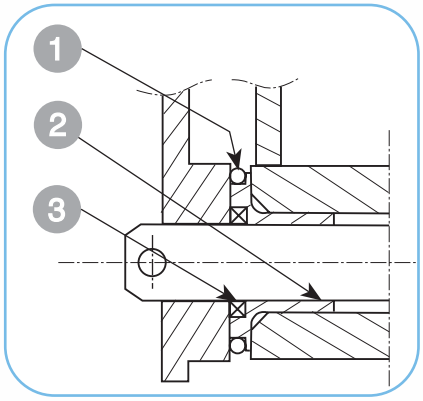
Robust undercarriage

- Long undercarriage for higher lateral stability.
- Better side stability due to the use of double lateral rollers and asymmetric crawlers.
- 2 hydraulic piston travel motors in the undercarriage with integrated parking brake.

1 - O-ring
2 - Flange bush
3 - Dust seal



Counterweights

- Large cast iron counterweights :
  - excellent protection against shocks ;
  - contribution to the balance of the machine.

Various protections

- Central guiding of flexible hoses at the base of the upper carriage.
- Flexible hoses protected against abrasion by external covers.
- Bucket play prevented by flanged bush and dust seal.
- Dipper and boom equipped with pins and bushes.

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Comfort and sa

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.
- Less track wear.

Safety

- Shock absorber on boom and swing cylinders, and on swing and travelling motors.
- Return valve on boom cylinder to avoid oil leakage.

Productivity an

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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Ergonomic and wide operating position

- Well organized pilot system : joysticks, armrests and travelling levers equipped with pedals.
- 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.
- Modern and convenient console.
- Defroster, heater, ventilation, inside lighting, windscreen washer.

d accessibility

Higher productivity for the operator

- Separated pedals for 3rd circuit and boom swing + forward and backward travelling possible with feet : possibility to combine various working movements and travelling.
- Pedals fitted with robust protections on pedal guards acting as footrests.
- Second speed.

Easy access to maintenance points

- Quick access to control valve.
- Large rear bonnet allowing access to all engine components and hydraulic pumps.

TECHNICAL SPEC

Engine

Yanmar Diesel 3 cylinders	3TNV82A-VB1A
Rated Output (DIN 6270B)	15.3 kw/20.8 HP/2100 rpm
Displacement	1330 cm^3
Max. torque	82.4 N.m./1260 rpm

Hydraulic circuit

System capacity	76 l
Max. pressure	185 bar
Variable flow dual piston pump	2 x 30.6 l/mn
1 gear pump	1 x 25.6 l/mn

Performances

Travelling speed*	4.5/2.5 km/h	Grade ability	30°
Swing speed	10 rpm	Shoe width	260 mm
Digging force (arm/bucket)	1450/2040 kgf	Ground clearance	320 mm
Boom swing (L/R)	50°/90°	Blade (width x height)	1450 x 280 mm
Ground pressure**	0.28/0.29 kg/cm^2		

* rubber crawlers
** canopy/cabin

Miscellaneous

Fuel tank	29 l
Cooling system	4.6 l
Transport dimensions (L x w x h)	4285 x 1468 x 2410 mm
Noise Level LwA (2000/14/EC & 2005/88/EC)	93 dBA

Optional equipment

- Special paint
- Bio Oil
- Long dipper arm (+ 300 mm)
- Arm extension (+ 500 mm)
- Safety device for loading
- Anti-theft device

PTO	Theoretical data	
	Pressure	A 2100 rpm
	185 bar	56.3 l/mn
	185 bar	56.3 l/mn

- The output reduces as the pressure increases.

IFICATIONS

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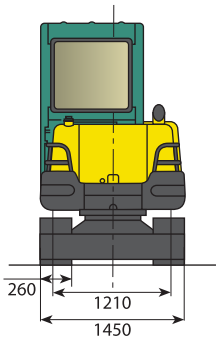
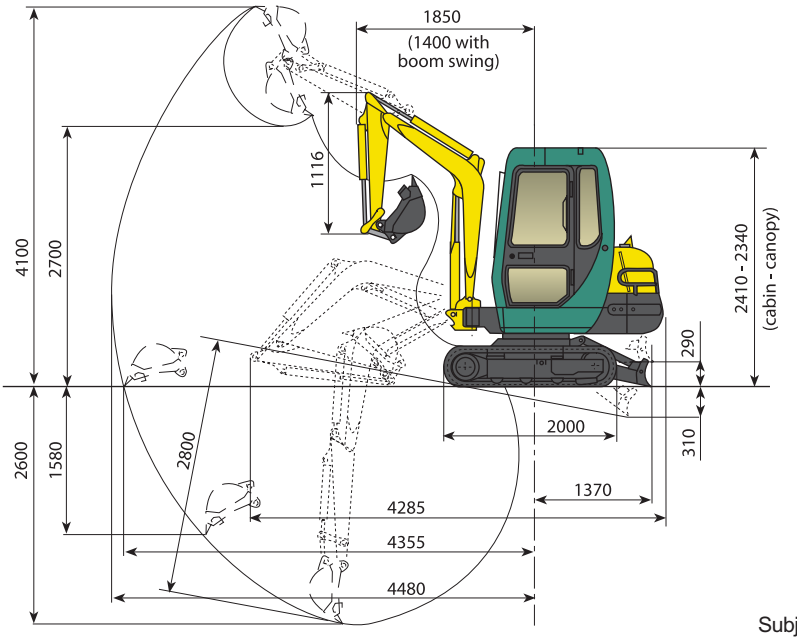
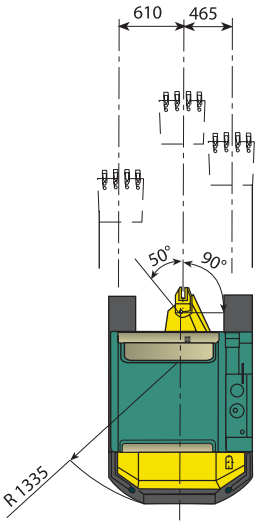
Operating weight +-2% :

2790/2690 kg (rubber crawlers)
2870/2770 kg (steel crawlers)







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	*450	*450	-	-	-	-	-	-	C
2.5	*450	*450	*450	*450	-	-	-	-	
2.0	*450	*450	*480	*480	*510	*510	-	-	
1.0	375	*480	*590	*590	*760	*760	*1080	*1080	
0	385	*510	515	*690	670	*930	910	*1200	
- 1.0	*530	*530	-	-	650	*760	*1010	*1010	
- 1.5	*500	*500	-	-	-	-	*745	*745	

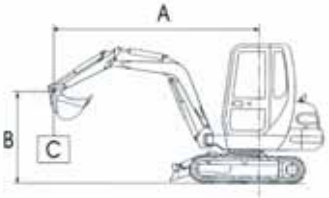
Blade above ground

A	Maxi		3.0 m		2.5 m		2.0 m		
B									
3.0	*450	*450	-	-	-	-	-	-	C
2.5	*450	*450	*450	*450	-	-	-	-	
2.0	*450	*450	*480	*480	*510	*510	-	-	
1.0	370	*480	*590	*590	*760	*760	*1080	*1080	
0	380	*510	510	*690	665	*930	905	*1200	
- 1.0	*530	*530	-	-	645	*760	*1010	*1010	
- 1.5	*500	*500	-	-	-	-	*745	*745	

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 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°