

# **YANMAR**

Solutioneering Together

Universal  
**ViO80**



## **Midi-excavator ViO80U**

Operating weight: 8065/8285 kg

Arm digging force: 4160 kgf

Bucket digging force: 6480 kgf



# ***Universal ViO80, the ideal compromise between exceptional performances, versatility and reduced consumption.***



- The ViO80U is a real Zero Tail Swing machine: neither the counterweight nor the front part of the upper frame exceed the width of the crawlers. No dead angle in the upper structure: maximum all-around visibility.
- Compact dimensions: front swing radius with boom swing of only 2130 mm and rear swing radius of 1135 mm. Width of the machine reduced to 2270 mm. Possibility to work easily in confined areas or along a wall. Higher productivity and better safety for the operator.
- The large and spacious cabin, set on silent blocks, is comfortable and offers a wide inner space. Compared with the previous model, the inside volume is increased by 40% and the frontal visibility by 53%. Entrance width and foot space are also bigger.
- Cabin fully equipped with 2 front lamps on the top, 4 mirrors, jack for the beacon lamp, aerial, air-conditioning, battery isolator, electronic engine stop, 12V power socket, cup holder, storage space, utility boxes...
- Maximum operator safety. The cabin is in accordance with the ROPS, FOPS1 and TOPS standards. Large safety lever to access the machine control. Modern and user-friendly dashboard, which automatically warns the operator if any anomaly occurs.
- Comfortable and ergonomic working space. Double-side pneumatic suspension seat + travel levers with large pedals + arm rests adjustable in height and width + new levers with proportional command for the accessories + accelerator pedal potentiometer.
- Exceptional stability and lifting force. The combined use of a large counterweight, of a long undercarriage (2890 mm) and of asymmetric crawlers (VICTAS® system) ensures a great stability and one the best lifting strength among the machines of this weight category.
- New high-power and eco-friendly YANMAR 4TNV98-ZWBV1 engine in accordance with EC Stage 3-A (Europe) and EPA Tier 3 (USA standards). Engine fitted with:
  - EGR system (exhaust gas recycling) to reduce NOx emissions and fuel consumption;
  - Electronic control of the rpm (auto idle adjusted by a potentiometer, no more cable or linkage);
  - Eco mode to reduce the speed while maintaining a constant torque to work in optimal conditions.
- 2nd automatic speed: when you put the switch in 2nd speed, the device reduces automatically the speed in accordance with the pulling power consumption (slope, swing, etc...).
- The « VIPPS® » hydraulic circuit (ViO Progressive 3-Pump System) increases the working speed thanks to the cumulative pump capacities and enables smooth and simultaneous operation of all functions, even while travelling. Proportional hydraulic circuit in standard.
- Easy access to all maintenance points: significant decrease in service time and operational costs. The covers can be easily open with no special tool and give direct access to the main components.
- Other first-class standard equipments: refuelling pump, travel and blade controlled by hydraulic levers, working lamp integrated in the boom, fixing points on track frame and blade to facilitate transportation on trailers, large handrail...

# TECHNICAL SPECIFICATIONS

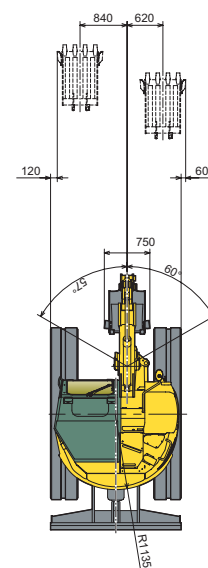
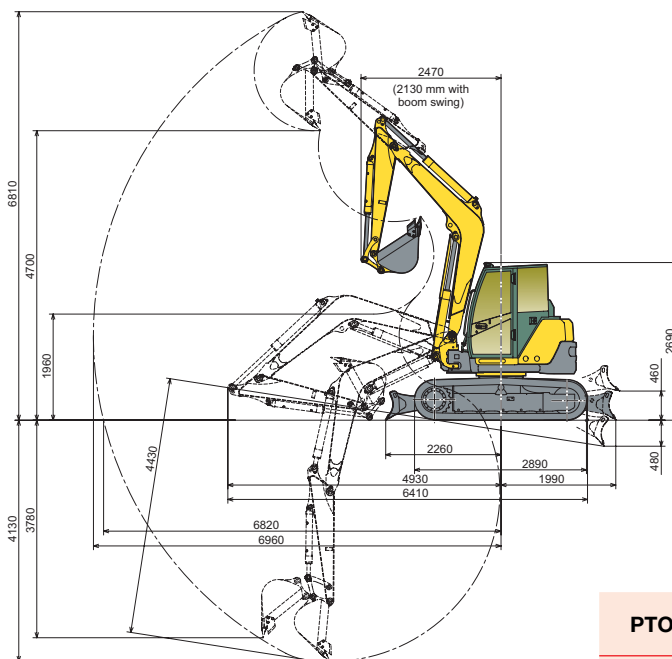
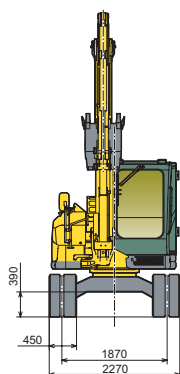
Universal  
**Vi80**

## Operating weight +-2% (EC Norms):

8065/8125 kg (rubber crawlers/steel crawlers without hydraulic quick coupler)  
8225/8285 kg (rubber crawlers/steel crawlers with hydraulic quick coupler)

## Transport weight +-2%:

7990/8050 kg (rubber crawlers/steel crawlers without hydraulic quick coupler)  
8150/8210 kg (rubber crawlers/steel crawlers with hydraulic quick coupler)



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

PTO	Theoretical Data	
	Pressure	1900 rpm
	0 ~ 240 bar	123 ~ 53.5 l/mn
	0 ~ 240 bar	123 ~ 53.5 l/mn

• The output reduces as the pressure increases.

		Vi080U
4-cylinder Yanmar engine	Type	4TNV98-ZWBV1
	Rated output (DIN 6270B)	40.7 kw/55.3 HP/2000 rpm
	Displacement	3318 cm³
	Max. torque	248 N.m./1300 rpm
Hydraulic circuit	System capacity	112 l
	Max. pressure	255 bar
	2 variable displacement piston pumps	2 x 70.3 l/mn
	1 fixed displacement piston pump	53 l/mn
	1 gear pump	20.9 l/mn
Performances	Travelling speed	2.5/4.5 km/h
	Swing speed	9 rpm
	Digging force (arm)	4160 kgf
	Digging force (bucket)	6480 kgf
	Grade ability	30°
Undercarriage	Ground pressure	0.358/0.362 kg/cm²
	Shoe width	450 mm
	Ground clearance	390/380 mm
	Blade (width x height)	2260 x 450 mm
Miscellaneous	Fuel tank	115 l
	Cooling system	9 l
	Transport dimensions (L x w x h)	6410 x 2270 x 2690 mm
Optional equipments	Noise level (2000/14/EC & 2005/88/EC)	73 dBA (LpA) 98 dBA (LwA)
	Special paint	4th circuit with proportional command
	Standard, ditch cleaning and swivelling buckets	Anti-start system and Anti-theft device
	Safety device for loading	Hydraulic Hammer
	Hydraulic quick coupler	

## Machine with cabin, rubber crawlers, without bucket.

A: Overhang from rational axis (m).

B: Height of hooking point (m).

C: Safe working load (kg).

Tipping load, rating over front

Tipping load, rating over side 90°

## Blade on ground

A	Maxi		5.0		4.0		3.0		
B									
5.0	*1720	*1730	-	-	*1720	*1770	-	-	C
4.0	1190	*1700	1260	*1670	*1690	*1710	-	-	
3.0	990	*1650	1270	*1740	*1970	*1990	*2520	*2620	
2.0	930	*1700	1190	*1890	1690	*2290	2540	*3550	
1.0	890	*1690	1160	*2050	1580	*2710	2300	*3890	
0	910	*1720	1110	*2110	1530	*2790	2240	*4090	
-1.0	1000	*1690	1100	*1950	1490	*2670	2290	*3560	
-2.0	1250	*1590	-	-	1540	*2150	2380	*2890	
-3.0	*1220	*1260	-	-	-	-	*1610	*1600	

## Blade above ground

A	Maxi		5.0		4.0		3.0		
B									
5.0	*1700	*1690	-	-	*1720	*1690	-	-	C
4.0	1200	*1450	1220	1350	*1690	*1630	-	-	
3.0	960	1020	1230	1290	*1960	*1940	*2550	*2520	
2.0	890	950	1140	1250	1640	1780	2410	2820	
1.0	860	930	1130	1190	1530	1640	2270	2360	
0	890	950	1090	1150	1500	1590	1760	2400	
-1.0	970	1010	1070	1130	1450	1610	2210	2430	
-2.0	1210	1250	-	-	1490	1560	2290	2570	
-3.0	*1240	*1260	-	-	-	-	*1610	*1630	

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.



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