



Universal
Vi050

Mini-excavator



Vi050

Operating weight : 4625 kg

Arm digging force : 2400 kgf

Bucket digging force : 3800 kgf

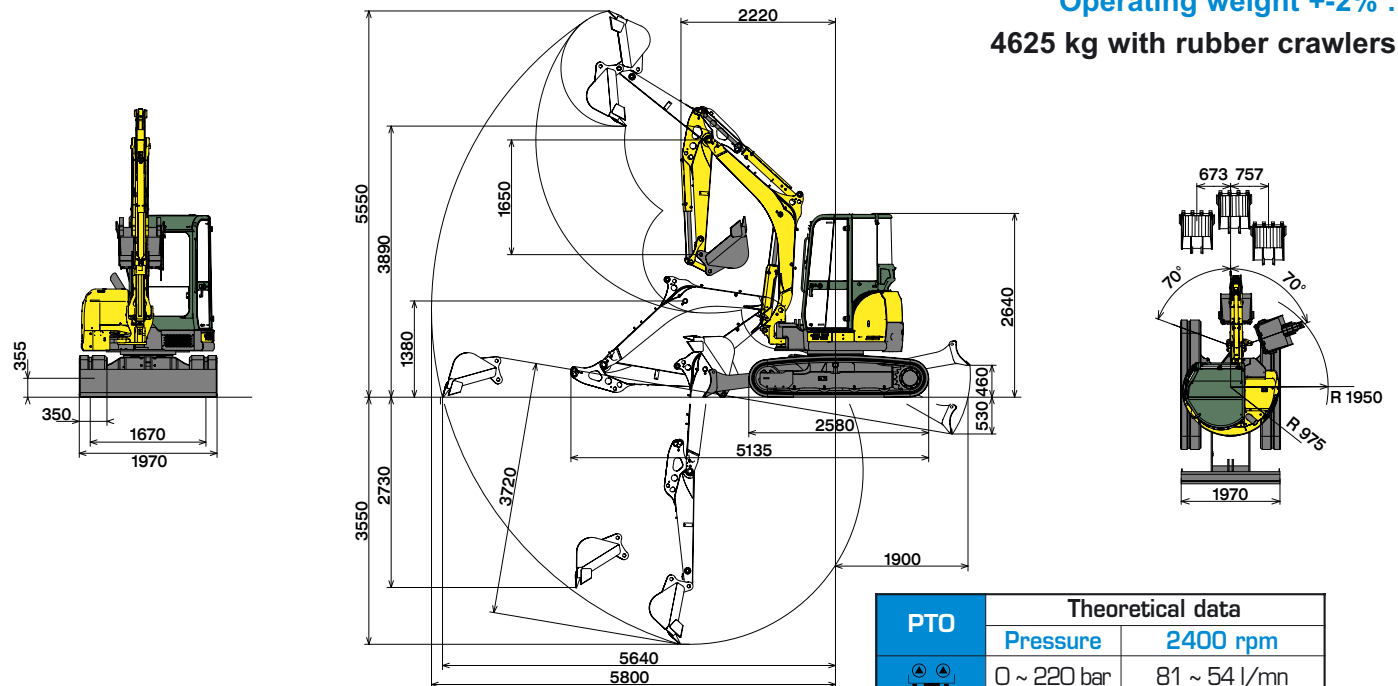
Yanmar, inventor and leader of the ZTS mini-excavators



- Real Zero Tail Swing machine : neither the counter-weight nor the front part of the upper frame exceed the width of the crawlers.
- Possibility to work along a wall. Safety and productivity for the operator.
- Cabin fully compliant to safety norms : ROPS (Roll Over Protective Structure), FOPS 1 (Falling Object Protective Structure) and TOPS (Tip-Over Protective Structure).
- Boom less bent than in earlier versions to make it easier to reach over a truck, thereby improving productivity during unloading operations.
- Cylinders completely protected (rod and cylinder) by highly elastic steel plates to resist any possible shocks.
- Careful routing and protection of the hydraulic pipes on the boom and on the right side of the machine under the step. You can remove the step to access the sockets and change the equipment pipes.
- Layout of the counterweight designed to protect the side panels against any possible shocks. Additional moulded parts at the left and right outer corners of the upper frame, improving shock resistance.
- Integrated working lamp.

- For increased productivity the blade has been put forward by 20 cm. This allows better control of the job and better levelling. The blade lever, formerly cable operated, is hydraulic.
- The "VICTAS®" system (patented by Yanmar) consists in increasing the bearing surface by increasing the track path and using asymmetric crawlers. Main advantages: increased lateral stability, increased lifting capacity, reduced ground damage, reduced track wear and quiet, vibration-free movement.
- New-generation Yanmar engine which exceeds the most stringent emissions standards.
- "VIPPS®" hydraulic circuit (ViO Progressive 3 Pumps System) fitted with a variable flow dual piston pump and a gear pump : higher precision and possibility to combine various working movements (boom, arm, upper frame).
- Perfect combination of the Yanmar engine and the hydraulic system for reduced fuel consumption. Standard electric refuelling pump.
- Spacious operating position, suspension seat, ergonomic armrests and pilot system : reduced operator fatigue.
- Easy access to all maintenance points : engine components, filters, pressure plugs, hydraulic pumps...

TECHNICAL SPECIFICATIONS



Operating weight **+2%** :
4625 kg with rubber crawlers

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

PTO	Theoretical data	
	Pressure	2400 rpm
	0 ~ 220 bar	81 ~ 54 l/mn
	0 ~ 220 bar	81 ~ 54 l/mn

The output reduces as the pressure increases.

		Vi50
4-cylinder Yanmar engine	Type	4TNV88-BXBVA
	Rated Output (DIN 6270B)	28.8 kw/39.1 HP/2400 rpm
	Displacement	2189 cm ³
	Max. torque	141 N.m./1200 rpm
Hydraulic circuit	System capacity	64 l
	Max. pressure	220 bar
	Variable flow dual piston pump + gear pump	2 x 40.3 l/mn + 1 x 40.3 l/mn
Performances	Travelling speed	2.3/4.6 km/h
	Swing speed	10 rpm
	Digging force (arm)	2400 kgf
	Digging force (bucket)	3800 kgf
	Grade ability	30°
Undercarriage	Ground pressure	0.295/0.268 kg/cm ²
	Shoe width	350 mm
	Ground clearance	355 mm
	Blade (width x height)	1970 x 400 mm
Miscellaneous	Fuel tank	67 l
	Cooling system	6.7 l
	Transport dimensions (L x w x h)	5135 x 1970 x 2640 mm
Optional equipment	Noise level LwA (2000/14/EC & 2005/88/EC)	98 dBA
	Special paint Hydraulic quick coupler Climate control Standard, ditch cleaning and swivelling buckets Long arm (+200 mm)	4th circuit Anti-start system Anti-theft device Radio

Machine with cabin, rubber crawlers, bucket of 115 kg (500 mm).

Tipping load, rating over front

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

Tipping load, rating over side 90°

Blade on ground								
A	Maxi		4.0 m		3.0 m		2.5 m	
B								
4.0	700	*855	-	-	-	-	-	-
3.0	535	*900	685	*850	-	-	-	-
2.0	455	*935	650	*995	*1170	*1215	-	-
1.0	430	*970	625	*1180	1000	*1655	1295	*2135
0	440	*1050	590	*1310	920	*1910	1190	*2450
-1.0	520	*1085	590	*1275	910	*1875	1205	*2310
-2.0	805	*1075	-	-	950	*1385	1225	*1650

Blade above ground								
A	Maxi		4.0 m		3.0 m		2.5 m	
B								
4.0	700	*815	-	-	-	-	-	-
3.0	530	575	685	*795	-	-	-	-
2.0	445	490	650	695	*1160	*1135	-	-
1.0	425	455	620	685	995	1075	1285	1445
0	445	475	590	635	925	1030	1175	1300
-1.0	520	550	590	640	920	980	1190	1325
-2.0	790	805	-	-	920	1000	1175	1325

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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