



SV20

Mini-excavator



YANMAR®

SV20

Operating weight : 2260/2125 kg

Arm digging force : 1200 kgf

Bucket digging force : 1900 kgf

The SV20 creates a new standard in the class of 2 to. mini-excavators: for the first time, a 2,000 kg mini-excavator combines compact dimensions, comfortable cabin, high performance levels and great stability. The weight of the SV20 enables the transport of it with the European E, B driving licence.



- Compact dimensions allowing easy transport on a trailer or in an utility vehicle: reduced width of the machine (1,380 mm); rear swing radius (980 mm) and front swing radius with boom swing (1,460 mm). Possibility to work in narrow areas, where a conventional machine of 2,000 kg is unable to work.
- Equipped with a long arm as standard and is therefore able to reach an excellent digging depth (2,482 mm) and dumping height (4,017 mm).
- Maximum superb all-round visibility and to the bottom of the trench: safety and productivity for the operator.
- Robust construction. Machine constructed using modular assemblies: easy and reliable assembly of all components. Upper frame made from a single casting providing improved stability and greater durability. Rear and side bonnets in steel.
- Reliability: perfect protection on boom and blade cylinders and integrated working lamp.
- Canopy and cabin meet the requirements of the strictest safety standards: ROPS (Roll Over Protective Structure) ; FOPS 1 (Falling Object Protective Structure) ; TOPS (Tip-Over Protective Structure).
- Large safety lever on access to control position: in the raised position, it prevents all working movements and travel.
- Spacious cabin with a lot of space for such a compact machine. Wide access to the operating position. Defroster, heater, ventilation, inside lighting, windscreen washer.
- Spacious and ergonomic pilot system: perfect position of joysticks, armrests and travel levers with pedals. Separate pedals for using the auxiliary power take-off line and boom offset. Comfortable, multi-adjustable seat. Access possible from both sides on the canopy version.
- New-generation Yanmar TNV (Totally New Value) engine fully compliant with European noise standard 2003/10/EC, vibration standard 2002/44/EC and environment standard 2004/26/EC as well as American norms EPA Stage Nr. 3.
- Hydraulic circuit (flow sharing load-sensing) consisting of a variable flow piston pump that enables precise and simultaneous working movements: safety and productivity, particularly for operations requiring accuracy.
- Successful combination between the engine and the hydraulic system: reduced fuel consumption, increased productivity and less exhaust fumes.
- Dual- or single-action auxiliary circuit fitted to arm end. 2nd speed on the travel lever.
- Easy access to all maintenance points: significant decrease in service times and operational costs. Direct access to fuel, air, hydraulic return filters and coolant expansion tank underneath the large rear bonnet and direct access to battery, alternator, starter motor, PTO selector valve, electrical components, control valves, hydraulic pump and suction filter by removing the lateral and frontal panels.

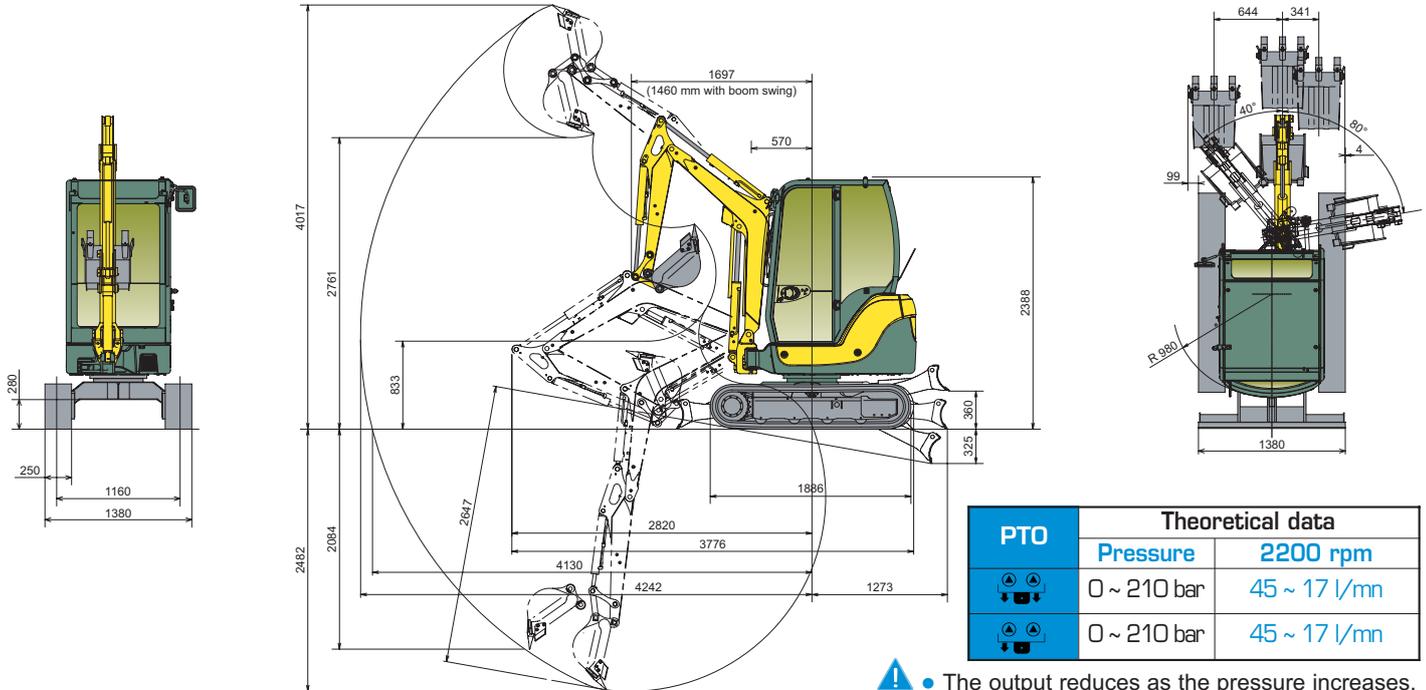
Mini-excavator



TECHNICAL SPECIFICATIONS



Operating weight **+2% (EC Norm): 2260/2125 kg (cabin/canopy)**
 Transport weight **+2%: 2185/2050 kg (cabin/canopy)**



The output reduces as the pressure increases.

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

Machine with cabin, rubber crawlers, bucket of 58 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°

SV20		
3-cylinder Yanmar engine	Type	3TNV76-PBVA
	Rated output (DIN 6270B)	13.4 kw/18.2 HP/2200 rpm
	Displacement	1115 cm ³
	Max. torque	68.6 N.m./1800 rpm
Hydraulic circuit	System capacity	32 l
	Max. pressure	210 bar
	Variable flow piston pump	50 l/mn
Performances	Travelling speed	2.4/4.1 km/h
	Swing speed (right/left)	9.3/9.5 rpm
	Arm digging force	1200 kgf
	Bucket digging force	1900 kgf
	Grade ability	30°
Undercarriage	Ground pressure	0.37/0.39 kg/cm ²
	Shoe width	250 mm
	Ground clearance	280 mm
	Blade (width x height)	1380 x 240 mm
Miscellaneous	Fuel tank	29 l
	Cooling system	4 l
	Transport dimensions (L x w x h)	3776 x 1380 x 2388 mm
Optional equipment	Noise level (2000/14/EC & 2005/88/EC)	92 dBA (LwA) 80 dBA (LpA)
	Special paint	Safety device for loading
	Standard buckets	Anti-start system
	Ditch cleaning buckets	Anti-theft device
	Swivelling buckets	

The data contained in these tables represent the lifting capacity in accordance with ISO standard 10567. They include the weight of the bucket and 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.

Blade on ground								
A	Maxi		3 m		2.5 m		2 m	
B								
3	-	-	*461	*439	-	-	-	-
2.5	341	*461	341	398	-	-	-	-
2.0	304	*483	*461	*483	-	-	-	-
1.5	285	*483	379	*526	*592	*592	*548	*744
1.0	266	*483	379	*570	473	*679	679	*940
0	285	*505	323	*570	435	*744	566	*1048
- 1.0	341	*505	-	-	435	*635	585	*940
- 1.5	*418	*418	-	-	-	-	*635	*635

Blade above ground								
A	Maxi		3 m		2.5 m		2 m	
B								
3	-	-	*398	*379	-	-	-	-
2.5	341	*379	*360	*379	-	-	-	-
2.0	304	341	*585	*398	-	-	-	-
1.5	285	304	379	*435	*510	*510	*510	*623
1.0	266	304	360	398	491	529	679	*754
0	266	304	323	323	416	454	566	679
- 1.0	341	398	-	-	435	454	529	679
- 1.5	*360	*360	-	-	-	-	*529	*529



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