



SY20C

Engine power
14.6kW/2400rpm

Bucket capacity
*0.04m³

Operating weight
1975kg



Excellent performance



Easy operation



Comfortable working environment



Economically



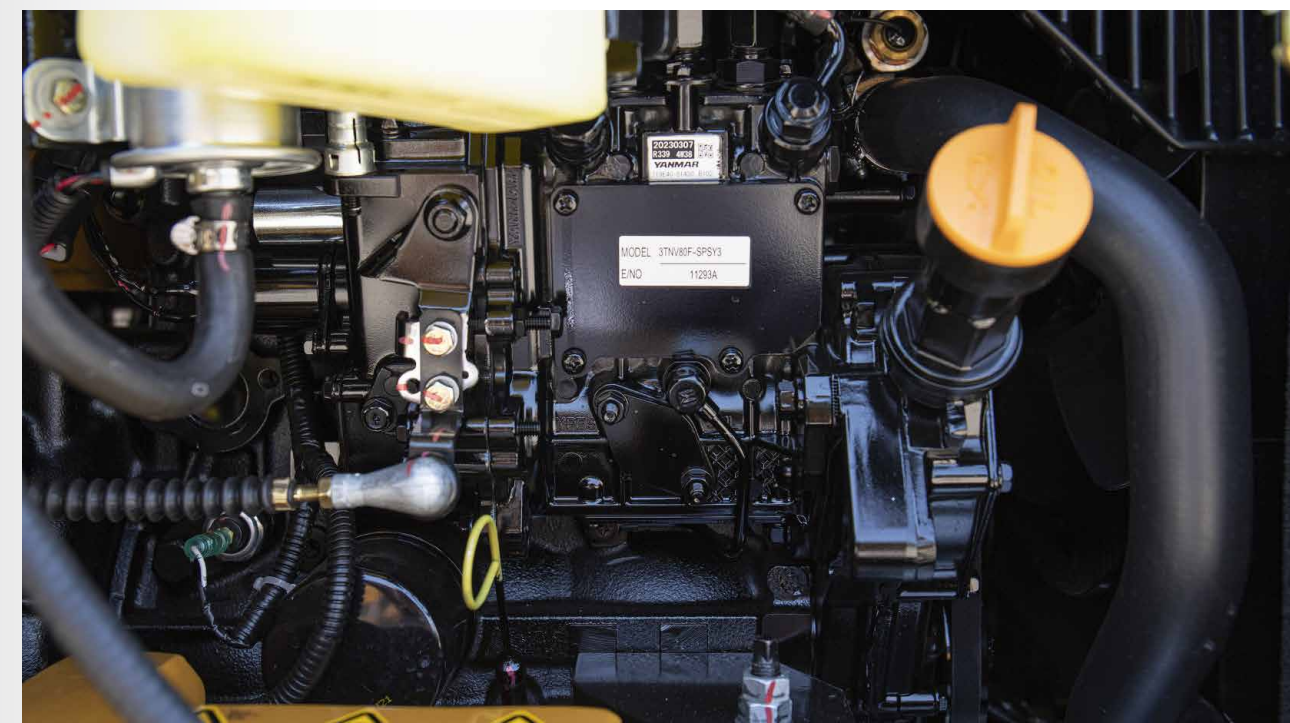
* Bucket is optional



SANY HEAVY MACHINERY LTD

<http://www.sanyglobal.com>

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Excellent performance



SY20C is powered by a SANY-customized Yanmar 3TNV80F engine, delivering 14.6kW of power and meeting Stage V and Tier 4f emission standards. With robust and reliable performance, it caters to diverse power needs of customers.

The SY20C is equipped with a 30cc large-displacement main pump, a high-torque travel motor, and strong power engine providing the machine with superior performance.

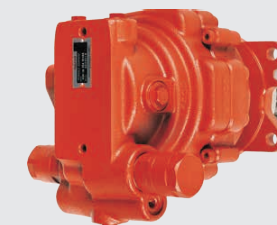
Main pump



Master valve



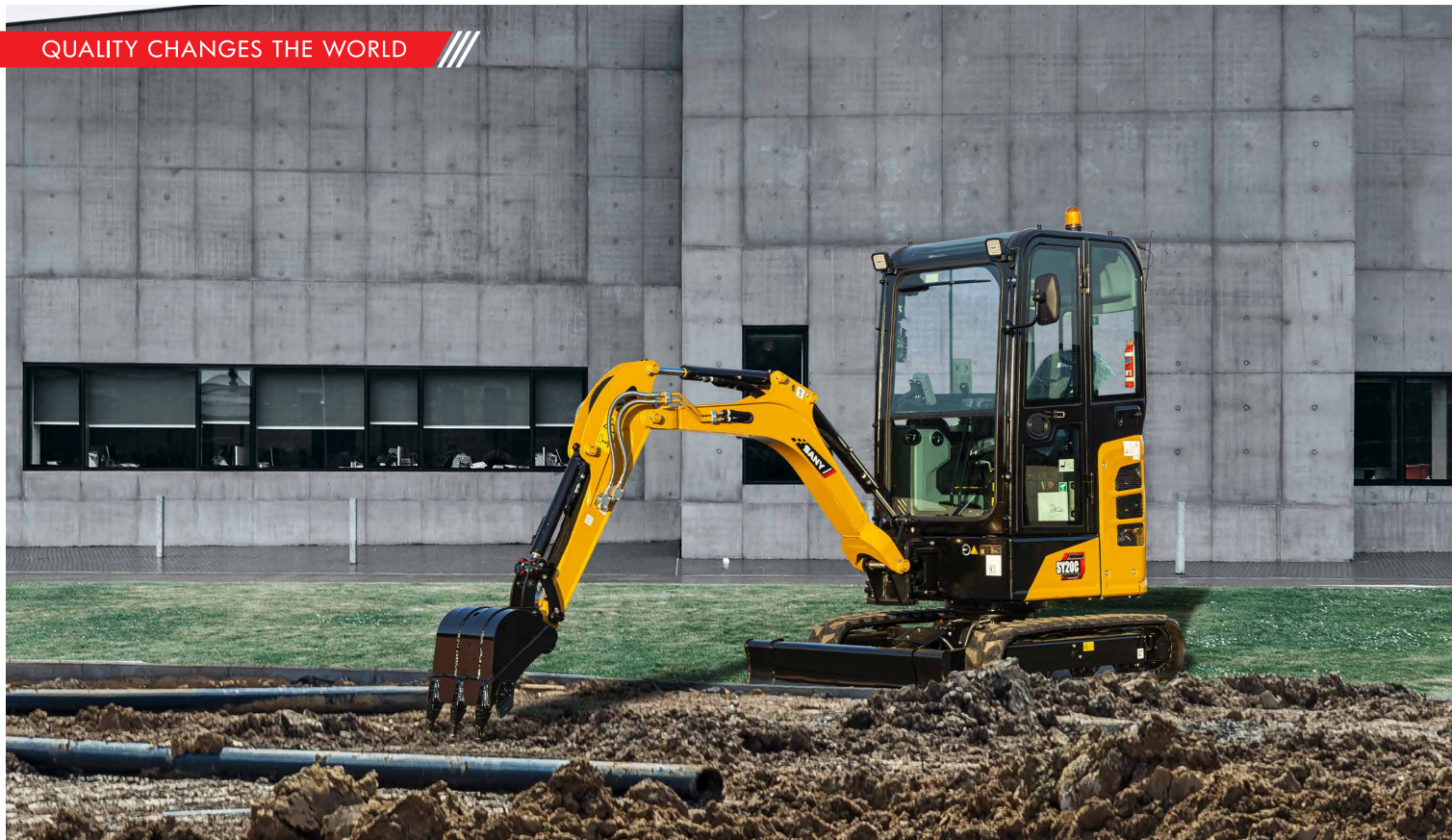
Rotary motor



Load-sensing hydraulic system



Load-sensitive flow distribution system: It can provide and distribute flow according to the need of the system for flow, meeting the requirements of speed regulation and compound actions of executing components. Through hydraulic system optimization, precise engine matching ensures accurate and smooth control of machine operations.



Adjustable track frame to suit all your requirements and increase stability

When things get really tight, the SY20C makes itself very small – with a width of just 980 mm, it can even fit through a garden gate, a door opening or onto a trailer for transport.

If stability is required, the undercarriage can be hydraulically adjusted to a width of 1 350 mm. The dozer blade can also be adjusted to varying widths as needed.



Brand new upgrade of cab

Protection for people and machines

Thanks to the ROPS or FOPS-tested operator's platform, SANY's smallest model also performs well in terms of safety. To ensure that people and machines, tools and buildings and the environment are optimally protected, the standard equipment includes a battery disconnection switch and an emergency stop button. The warning beacon alerts work zone personnel to maintain safety awareness.

The individual that already has everything

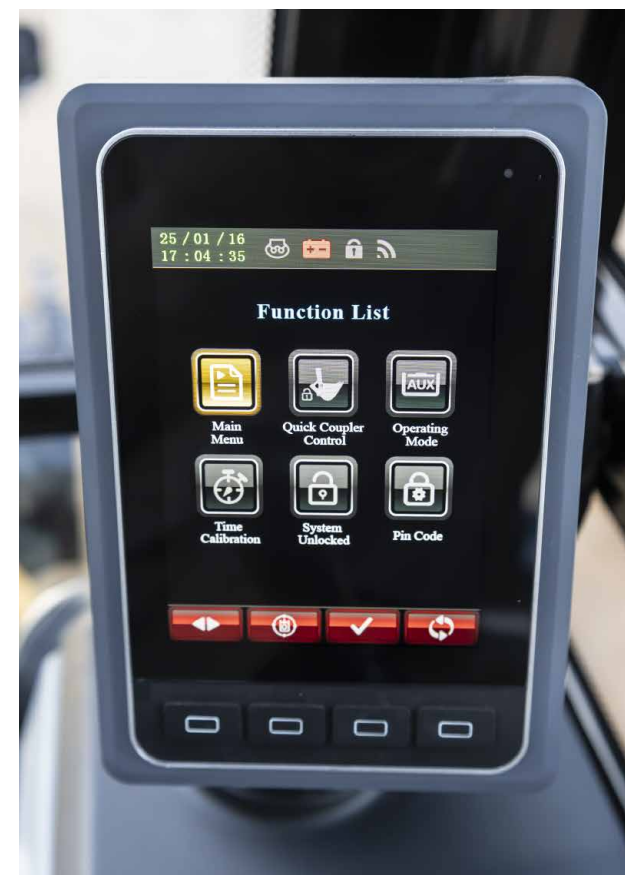
The SY20C comes with many standard features that are highly beneficial. For instance, it includes bi-directional switchable circuits, autoshifting travel motors, LED work lights, rearview mirrors, and an externally mounted main power switch.





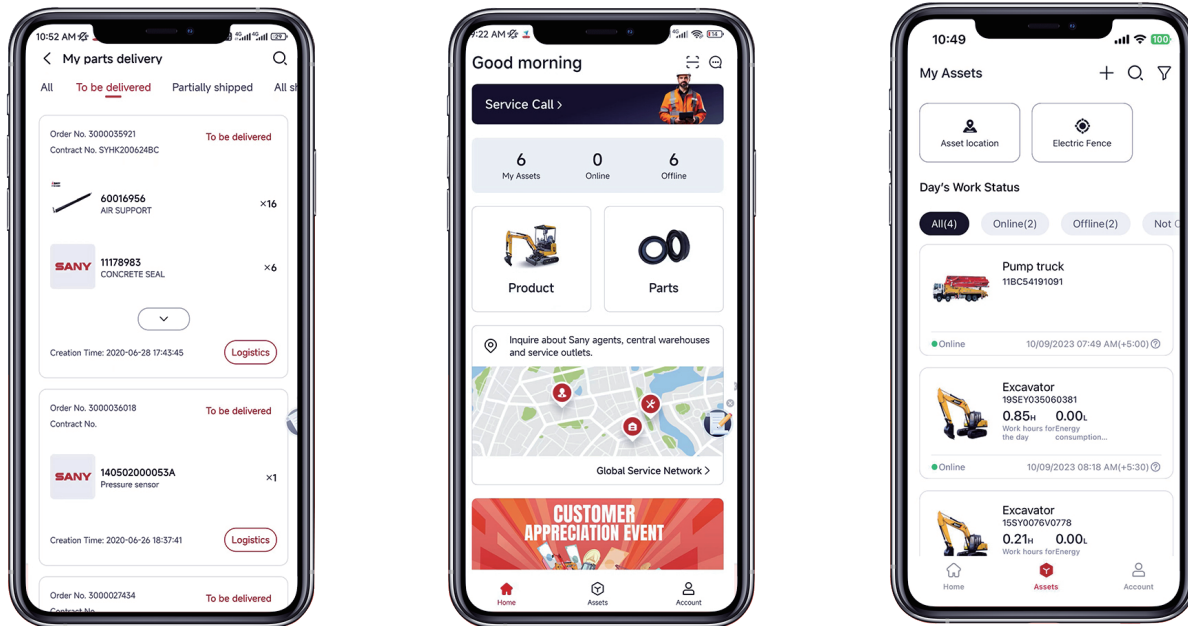
Comfortable working environment

The sealed and enlarged operator's cab, air conditioning , suspension seat, advanced operator display, and multi-function proportional joysticks collectively ensure ergonomic comfort for prolonged operation.



MySANY APP

Easy use, quick response



Quick Parts Access

- View parts manuals
- View parts availability
- Check equipment & parts order status

Fleet Management

- Check equipment working condition
- Monitor equipment energy consumption
- Set up e-fence

Streamlined Service

- One-click to initiate service request
- Check global service network
- View local service team's phone number & email



Scan to download!

Complete research & development and test system

SANY has established complete machine endurance test center with full functions. Each model of excavator must be subjected to over 2,000h field excavating test.

Key components like working device, cab and hydraulic components etc. must be subject to fatigue test over 800,000 times.



Advanced manufacturing technology

SANY has RGV assembling line and fullautomatic welding robots, and possesses high precision machining equipment and precise machining center.

SANY's manufacturing and assembling lines won five-star national site in 2013 and national quality award in 2014. In 2023, SANY Mini Excavator Factory was awarded as the intelligent factory.



Convenient maintenance

Electrical components are centrally installed, allowing for easy maintenance by simply opening the front cover.

Full-open covering parts enable maintenance and service directly from the ground, ensuring convenience and easy accessibility.

Air filters, oil-water separators, fuel filters, oil filters, fuse boxes, and other components are easily reachable, making maintenance exceptionally convenient.

Lubricating grease is added through a grease nozzle conveniently arranged on the same side as the excavator, ensuring easy lubrication and maintenance.



Technical specifications

Specification		Main performance	
Overall Weight	1975 kg	Traveling Speed	4.0/2.8(km/h) AC Off 3.0/2.1(km/h) AC On
*Bucket Capacity	0.04m³	Gyration Speed	10rpm
Engine	Yanmar 3TNV80F	Grade Ability	58%
Engine Power	14.6kW/2400rpm(SAEJ1995)	Ground Pressure	32 kpa
Main Pump Flow	66L/min	Digging Force of Bucket	16.6 kN
Maximum Torque	65.3Nm/1800rpm	Digging Force of Arm	8.3/9.2 kN
Displacement	1.267L		

Service Refill Capacities		Traveling part	
Fuel tank	25 L	Number of track rollers	2
Hydraulic oil tank	21 L	Roller on each side	3
Engine oil	3.4 L	Track width	230mm
Antifreeze coolant	5.4 L		

Traveling reducer gear oil	2X0.33 L
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Lift capacities of lower dozer blade

 Load point height (1160mm Arm)											
(m) (ft)		1.5 4.9		2.0 6.6		2.5 8.2		3.0 9.8		Maximum	
											
3.0	(kg)									*287	*287
9.8	(lb)									*633	*633
2.0								*326	*326	*222	*222
6.6								*719	*719	490	490
1.0				*549	*549	*446	415	*394	315	*222	*222
3.3				*1210	*1210	*983	915	*869	695	490	490
0		*680	*680	*812	533	*571	388	*436	300	*257	241
0		*1499	*1499	*1790	1175	*1259	855	*961	662	*567	531
-1.0				*677	527	*487	381	*350	298	*333	291
-3.3				*1493	1162	*1074	840	*772	657	*734	642

Lift capacities of upper dozer blade

 Load point height (1160mm Arm)											
(m) (ft)		1.5 4.9		2.0 6.6		2.5 8.2		3.0 9.8		Maximum	
											
3.0	(kg)									*287	*287
9.8	(lb)									*633	*633
2.0								289	*326	*222	*222
6.6								637	*719	490	490
1.0				514	*549	366	415	278	315	211	*222
3.3				1133	*1210	807	915	613	695	465	490
0		*680	*680	466	533	339	388	262	300	210	241
0		*1499	*1499	1027	1175	747	855	578	662	463	531
-1.0				460	527	333	381	260	298	254	291
-3.3				1014	1162	734	840	573	657	560	642

1. The lifting capacity is calculated in accordance with ISO10560 and SAEJ1097, where the limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;

2. Item with * is limited by hydraulic pressure and item without “*” is limited by stability;

3. Lifting point is front support hole of arm (excluding the weight of the bucket). It is necessary to deduct from the above lifting capacity if additional accessory is installed, such as bucket;

Lift capacities of lower dozer blade

Load point height (960mm Arm)									
(m) (ft)	1.5 4.9		2.0 6.6		2.5 8.2		3.0 9.8		Maximum
									
3.0 9.8	(kg) (lb)								
2.0 6.6					*329 *725	*329 *725	*329 *725	326 719	*322 *710
1.0 3.3			*666 *1471	576 1270	*502 *1107	415 915	*424 *935	318 701	*322 *710
0 0	*667 *1471	*667 *1471	*809 *1784	538 1186	*577 *1272	392 864	*438 *966	305 663	*365 *805
-1.0 -3.3			*639 *1409	538 1186	*460 *1014	390 860			*361 *796

Lift capacities of upper dozer blade

Load point height (960mm Arm)									
(m) (ft)	1.5 4.9		2.0 6.6		2.5 8.2		3.0 9.8		Maximum
									
3.0 9.8	(kg) (lb)								
2.0 6.6					*329 *725	*329 *725	289 637	326 719	284 626
1.0 3.3			510 1125	576 1270	367 809	415 915	280 617	318 701	234 516
0 0	*667 *1471	*667 *1471	472 1041	538 1168	345 761	392 864	268 591	305 673	234 516
-1.0 -3.3			472 1041	538 1168	343 756	390 860			292 644

1. The lifting capacity is calculated in accordance with ISO10560 and SAEJ1097, where the limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;

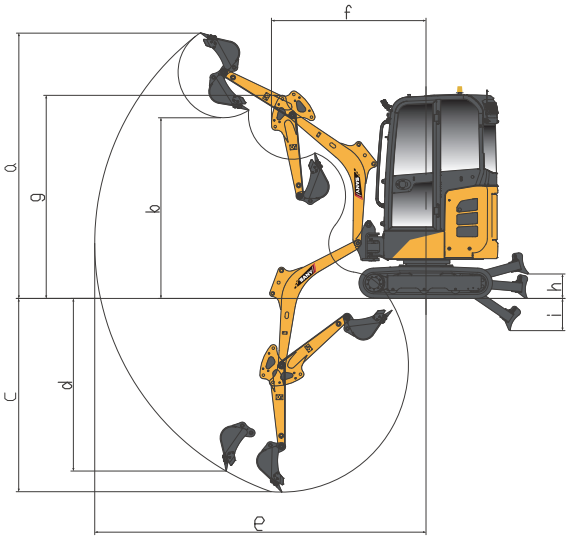
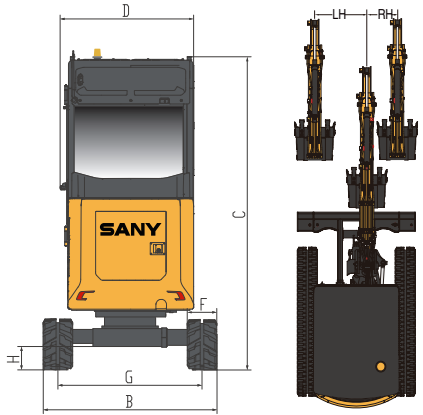
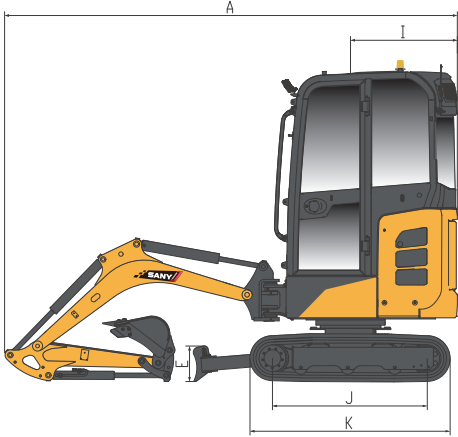
2. Item with * is limited by hydraulic pressure and item without "*" is limited by stability;

3. Lifting point is front support hole of arm (excluding the weight of the bucket). It is necessary to deduct from the above lifting capacity if additional accessory is installed, such as bucket;

Machine dimensions

DIMENSIONS (TRANSPORT) (mm)	SY20C
A. Total length (during transportation)	3695
B. Total width (during transportation/operation)	1040/1350
C. Total height (during transportation)	2430
D. Upper width	1040
E. Blade height	265
F. Width of standard track shoe	230
G. Track gauge (during transportation/operation)	750/1120
H. Minimum ground clearance	150
I. Gyration radius of tail	905
J. Grounding length of track	1220
k. Track length	1585

Working Area (mm)	Arm 960/1160	SY20C
a. Maximum digging height		3410/3530
b. Maximum unloading height		2350/2475
c. Maximum digging depth		2385/2585
d. Maximum digging depth with vertical boom		2100/2205
e. Maximum digging radius		3955/4080
f. Minimum gyration radius		1650/1660
g. Max. height at Min. gyration radius		2550/2545
h. Maximum lifting height of blade		290
i. Maximum lowering depth of blade		375
rh/lh. Maximum bucket offset		400/625



Standard configuration

Engine		Hydraulic system		Cab	
3TNV80F	●	Pilot switch control lever	●	Retractable seatbelt	●
12V-55A Alternator	●	Single/double acting switch valve	●	Adjustable suspension seat	●
25L fuel tank	●	Accumulator	●	Openable front window	●
		AUX1 lines	●	Cup holder	●
		Hydraulic oil cooling	●	Storage pocket	●
		21L hydraulic oil tank	●	Air conditioning	●

Lower traveling body		Electrical control system	
230mm wide rubber tracks	●	12V power interface	●
Two-speed travel	●	Main power switch	●
Retractable lower assembly	●	Multi-functional Display	●

Alarm system		Others	
Engine oil pressure is too low	●	60Ah battery	●
The fuel level is too low	●	Lockable rear engine cover	●
Coolant temperature is too high	●	Travel direction markings on traveling frame	●
		Working indicator	●

Monitoring system instrument		Optional accessories	
Hour gauge, fuel tank level gauge	●	Arm 960mm	○
Engine coolant temperature	●	Steel tracks	○
		0.04m³ bucket	○
		AUX2 hydraulic lines	○
		QC hydraulic lines	○

● stands for standard configurations ○ stands for optional configurations

