

PRODUCT SPECIFICATIONS

SANY

EXCAVATOR

SY20C

STANDARD FEATURES

- Swing boom functionality
- Conventional tail swing
- 1-way and 2-way primary auxiliary
- Powerful Stage V Yanmar engine

14.6 kW / 2400 rpm

Net Power

2585 mm

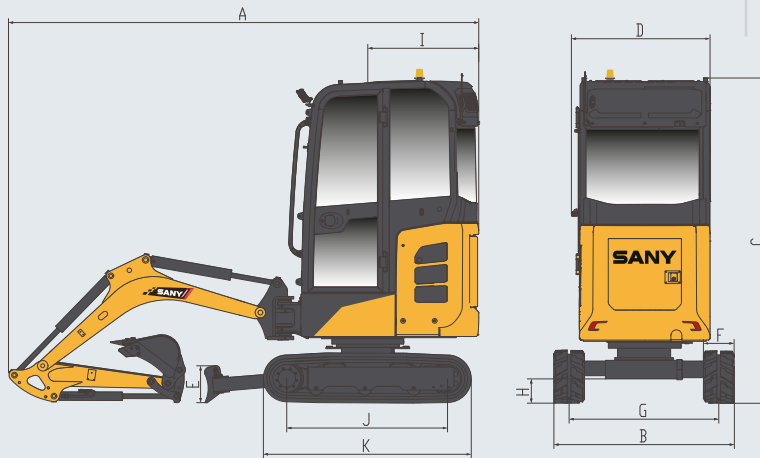
Dig Depth

1975 kg

Operating Weight*

16.6 kN

Bucket Breakout Force



TECHNICAL SPECIFICATIONS

Operating Weight*	1975 kg
Ground Pressure	32 kPa
Engine	Yanmar 3TNV80F
Displacement	1.267 L
Gross Power	14.6 kW
Net Power	14.6 kW
Hydraulics	Load Sensing with Pilot Control
Main Hydraulic Pump	Hengli
Operating Flow (maximum)	66.0 L/min
Operating Pressure (maximum)	24.5 MPa
Auxiliary Flow (maximum)*	40.0 L/min
Auxiliary Pressure (maximum)	16 MPa (1) / 20 MPa (2)
Travel Motor	Axial Piston
Travel Pressure (maximum)	24.5 MPa
Travel Speeds (maximum)	2.8 / 4.0 (km/hr) AC Off 2.1 / 3.0 (km/hr) AC On
Travel Effort (maximum)	17.9 kN
Grade Capability (maximum)	30°
Slew Motor	
Slew Pressure (maximum)	16.2 MPa
Slew Speed (maximum)	10 RPM
Undercarriage (standard)	Belted Rubber Track
Track Shoe Width (standard)	230 mm
Track Rollers (per side)	2
Carrier Rollers (per side)	3

DIMENSIONS

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Boom Length	1770 mm
Dipper Length	1160 mm
A Transport Length	3695 mm
B Transport Width	1040/1350 mm
C Transport Height	2430 mm
D Upper Structure Width	1040 mm
E Blade Height	270 mm
F Track Width (standard shoe)	230 mm
G Track Gauge	750/1120 mm
H Ground Clearance (minimum)	150 mm
I Tail Swing Radius	905 mm
J Track Length on Ground	1220 mm
K Track Length	1585 mm

SERVICE REFILL CAPACITIES

Fuel Tank Capacity	25.0 L
Hydraulic Tank Capacity	21.0 L
Engine Oil Capacity	3.4 L
Cooling System Capacity	5.4 L

Based on theoretical calculation at max flow with no load. Subject to alterations. In the interest of continual equipment development, SANY UK reserves the right to change these specifications at any time without prior notification.

* Operating weight: Includes 75kg (165 lb) operator, full fuel tank and excludes any attachments or hitch

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TECHNICAL SPECIFICATIONS

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STANDARD AND OPTIONAL EQUIPMENT

s = standard / o = optional

SY20C	ENGINE
s	3TNV80F-SPSY3
s	EU Stage V compliant
s	Dual-element dry air filter
s	Engine air precleaner
s	Coolant expansion tank
s	Water-cooled
s	Fan guard
s	Engine coolant to -37 deg. C
s	Full-flow oil filter
s	High flow cooling fan
s	500-hour engine-oil-change interval
s	Fuel filter and water separator
	HYDRAULIC SYSTEM
s	Spring-applied, hydraulically released automatic swing brake
s	Load sensing hydraulic system with Dual proportional auxiliary joysticks
s	Control pattern change valve
s	Primary auxiliary hydraulic circuit with 1 and 2-way combination piping
s	Adjustable auxiliary pressure relief
	UNDERCARRIAGE
s	Expandable and retractable tracks
s	Planetary drive with axial piston motors
s	Propel motor shields
s	Spring-applied, hydraulically released automatic propel brake
s	Track guides, front idler and 2 per side
s	2-speed travel selection through display and on dozer lever
s	3 lower track rollers each side
s	Dozer blade and cylinder guarding
s	Flip out dozer blade extentions
s	Tie downs on track frame and dozer blade
s	230mm wide rubber tracks
s	Undercarriage frame opening guard
	UPPER STRUCTURE
s	All-round mirrors
s	Lockable cab, hood and service doors

INDUSTRY'S
STRONGEST
STANDARD
WARRANTY

5 - YEARS*
5,000 HOURS

*Terms and Conditions apply.
Check with your local dealer for further information.

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STANDARD AND OPTIONAL EQUIPMENT

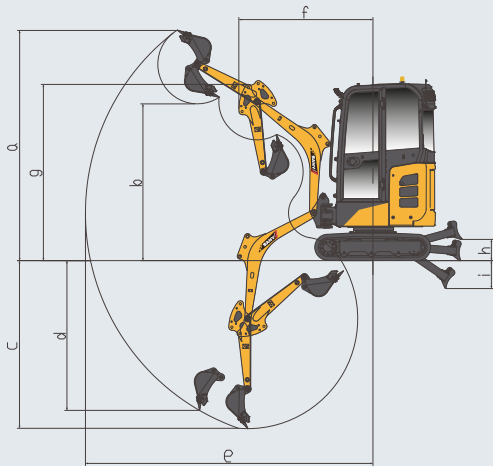
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SY20C	UPPERSTRUCTURE (Continued)
s	Remote-mounted engine oil and fuel filters
s	Daily fluid level inspection visible from ground
s	Rear reflectors
	ATTACHMENTS
s	Convenient grease points
s	Dirt seals on all bucket pins
s	Oil-impregnated bushings
s	Reinforced plates
s	Quick release couplers
	OPERATOR’S STATION
s	Hydraulic pilot controls for boom, arm, swing, and travel operations
s	Proportional auxiliary switches on joystick
s	Travel levers with foot pedals
s	Manual suspension vinyl seat with fore/aft adjustment
s	2” retractable seat belt
s	Emergency stop switch
s	Monitor with engine coolant gauge, high temp warning, low oil pressure indicator, glow plug indicator, battery indicator, engine hour meter, fuel level
s	Operation and maintenance manual storage
s	Heavy duty removeable rubber floor mat
s	Cup holder
s	Storage bin
s	Horn (electric)
s	Hour meter (electric)
s	Hydraulic shut off lever, all controls
s	Travel alarm with cancel switch
	ELECTRICAL
s	12V electrical system
s	Maintenance free battery
s	Ground level battery disconnect
s	Easy access fuse panel
s	Terminal battery covers
s	40-amp alternator
s	12V power outlet
	LIGHTS
s	Work lights: 2 mounted on top of canopy, 1 mounted on boom, green and amber beacon

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WORKING RANGE



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A	Maximum Digging Height	3530 mm
B	Maximum Dumping Height	2475 mm
C	Maximum Digging Depth	2585 mm
D	Maximum Vertical Wall Digging Depth	2100 mm
E	Maximum Reach at Ground Level	4080 mm
F	Minimum Swing Radius	1660 mm
G	Maximum blade height	290 mm
H	Maximum blade height	375 mm

DIGGING PERFORMANCE

Boom Length	1770 mm
Dipper Length	1160 mm
Bucket Breakout Force (ISO)	12.9 kN
Dipper Tearout Force (ISO)	6.9 kN

LIFTING PERFORMANCE

Standard 1770 mm Boom
Standard 1160 mm Dipper
Standard 230 mm Tracks

Ratings are based on ISO 10567:2007. Lift capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of hydraulic lifting capacity.



BLADE DOWN	LOAD RADIUS	2.0 m		2.5 m		3.0 m		MAX REACH	
	LOAD POINT HEIGHT								
BLADE DOWN	3.0 m							287 kg*	222 kg*
	2.0 m					326 kg*	326 kg*	222 kg*	222 kg*
	1.0 m	549 kg*	549 kg*	446 kg*	415 kg	394 kg*	315 kg	222 kg*	222 kg*
	0 m	812 kg*	533 kg	571 kg*	388 kg	436 kg*	300 kg	222 kg*	241 kg
	-1.0 m	677 kg*	527 kg	487 kg*	381 kg	350 kg*	298 kg	333 kg*	291 kg
BLADE UP	3.0 m							287 kg*	287 kg*
	2.0 m					289 kg	326 kg*	222 kg*	222 kg*
	1.0 m	514 kg	549 kg*	336 kg	415 kg	278 kg	315 kg	211 kg	222 kg*
	0 m	466 kg	533 kg	339 kg	388 kg	262 kg	300 kg	210 kg	241 kg
	-1.0 m	460 kg	527 kg	333 kg	381 kg	260 kg	298 kg	254 kg	291 kg

* Indicates load limited by hydraulic lifting capacity.

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