

SY35U

MINI HYDRAULIC EXCAVATOR **8,488 LBS** OPERATING WEIGHT
23.2 HP GROSS HORSEPOWER
11" MAX DIGGING DEPTH



TECHNICAL SPECIFICATIONS

MACHINE DATA	CAB	CANOPY
Operating Weight*	8,488 lbs	8,223 lbs
Bolt-on Counterweight	441 lbs	441 lbs
Ground Pressure	4.9 psi	4.6 psi
Engine Model	3TNV88F	
Displacement	100.2 in ³	
Net Power	22.1 HP @ 2,200 rpm	
Gross Power	23.2 HP @ 2,200 rpm	
Hydraulics	Load Sensing with Pilot Control	
Main Hydraulic Pump	Axial Piston - Variable Displacement	
Operating Flow (Max)	23.2 gpm	
Operating Pressure (Max)	3,553 psi	
Auxiliary Flow	18.5 gpm	
Auxiliary Pressure	2,901 psi	
Travel Motor	Axial Piston with Park Brake	
Travel Pressure (Max)	3,553 psi	3,553 psi
Travel Speeds (Max)	2.6 / 1.5 mph	
Travel Effort (Max)	8,273 lbf	
Gradability	30°	
Swing Motor	Axial Piston with Swing Brake	
Swing Pressure (Max)	2,988 psi	
Swing Speed (Max)	10 RPM	
Undercarriage	Belted Rubber Track	
Track Shoe Width	12"	
Track Rollers	4 Per Side	
Carrier Rollers	1 Per Side	

DIMENSIONS	STANDARD STICK	LONG STICK
Boom Length	8' 4"	8' 4"
Stick (Arm) Length	4' 7"	5' 5"
A Transport Length	16' 1"	16'
B Transport Height	8' 5"	8' 5"
C Upper Structure Width	5' 1"	
D Cab Height	6' 6"	
E Blade Height	14"	
F Track Width	5' 8"	
G Track Gauge	4' 8"	
H Tail Swing Radius	12"	
I Ground Clearance	2' 10"	
J Track Length on Ground	5' 6"	
K Track Length	7' 1"	

SERVICE REFILL CAPACITIES

Fuel Tank Capacity	13.21 gal
Hydraulic Tank Capacity	10.57 gal
Engine Oil Capacity	1.77 gal
Cooling System Capacity	1.00 gal

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.
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*Warranty applies to 2026 Excavator and Wheel Loader models

SANY America Inc. 318 SANY Way
 Peachtree City, Georgia 30269
 470.552.SANY sanyamerica.com

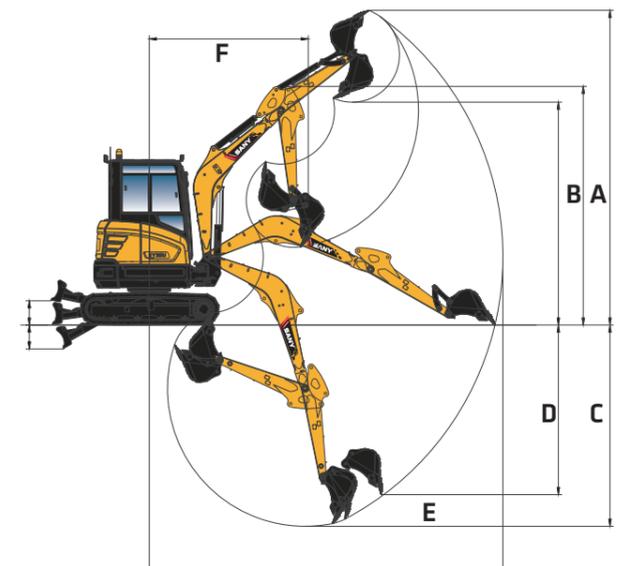


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WORKING SPECIFICATIONS

WORKING RANGE	STANDARD STICK	LONG STICK
Boom Length	8' 4"	8' 4"
Stick (Arm) Length	4' 7"	5' 5"
A Maximum Digging Height	16'	16' 6"
B Maximum Dumping Height	11' 4"	11' 10"
C Maximum Digging Depth	10' 3"	11'
D Maximum Vertical Wall Digging Depth	8' 8"	9' 5"
E Maximum Reach at Ground Level	17' 7"	18' 5"
F Minimum Swing Radius	8' 1"	8' 2"

DIGGING PERFORMANCE	STANDARD STICK	LONG STICK
Boom Length	8' 4"	8' 4"
Stick (Arm) Length	4' 7"	5' 5"
Bucket Breakout Force (ISO)	6,834 lbf	6,834 lbf
Stick (Arm) Digging Force (ISO)	4,092 lbf	3,642 lbf



*Operating weight is for the SY35U with no attachments, and standard stick.

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STANDARD FEATURES

ENGINE

- Yanmar 3TNV88F
- Tier 4f / EU Stage V Ready
- Auto-idle
- Dual-element dry air filter
- Coolant Expansion tank
- EGR Valve
- Fan guard
- Engine coolant to -37 deg. C (-34 deg. F)
- Full-flow oil filter
- High flow cooling fan
- 500-hour engine-oil-change interval
- Fuel filter and water separator

HYDRAULIC SYSTEM

- Spring-applied, hydraulically released automatic swing brake
- Load sensing hydraulic system
- Control pattern change valve
- Primary auxiliary hydraulic circuit with flow diverter and 1 and 2-way piping
- Auxiliary hydraulic-flow adjustments through monitor
- Adjustable auxiliary pressure relief
- Quick coupler plumbing to end of the stick

UNDERCARRIAGE

- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and 2 per side
- 2-speed travel selection through display and on dozer lever
- 4 lower track rollers each side
- 1 Upper carrier roller each side
- Dozer blade with float function and cylinder guarding
- Tie downs on track frame and dozer blade
- 300mm (12") wide rubber tracks
- 300mm (12") wide steel tracks
- Undercarriage frame opening guard

UPPERSTRUCTURE

- Right-hand, left-hand, and counterweight mirrors
- Lockable cab, hood, and service doors
- Debris screen in side panel
- Remote-mounted engine oil and fuel filters
- Daily fluid level inspection visible from ground
- Rear reflectors

ATTACHMENTS

- Convenient grease points
- Dirt seals on all bucket pins
- Flow diverter valve

ATTACHMENTS

- Thumb bracket
- Oil-impregnated bushings
- Reinforced thrust plates

OPERATOR'S STATION

- Hydraulic pilot controls for boom, stick, swing, and travel operations
- Proportional auxiliary switches on joystick
- Travel levers with foot pedals
- AM/FM radio with bluetooth and USB connection port
- Vinyl seat with fore/aft adjustment
- 2" retractable seat belt
- Emergency stop switch
- Sliding front window
- Removable lower front window
- Window breaker
- Standard and Breaker work mode
- 8 tool selection modes
- Fully adjustable auxiliary flow circuit from display
- Multifunction LCD monitor with: diagnostic capability / multiple-language
- System monitoring features: auto-idle indicator, 2-speed indicator, work tool mode indicator preheat icon, time and date, battery charge icon, throttle position, engine oil pressure alarm, fuel level gauge, maintenance needed icon, failure code, standard/breaker mode button, engine coolant temperature, coolant temp alarm, severe failure alarm, operating hours
- High performance heating, ventilation, and air conditioning system
- Operation and maintenance manual storage
- Heavy duty removeable rubber floor mat
- Front windshield wiper with high and low speed
- Horn, electric
- Hour meter, electric
- Hydraulic shutoff lever, all controls
- Interior light
- Cup holder
- Travel alarm with cancel switch
- Transparent overhead window

ELECTRICAL

- 12V electrical system
- Maintenance free battery
- Ground level battery disconnect
- Easy access fuse panel
- Terminal battery covers
- 80-amp alternator
- 12V power outlet

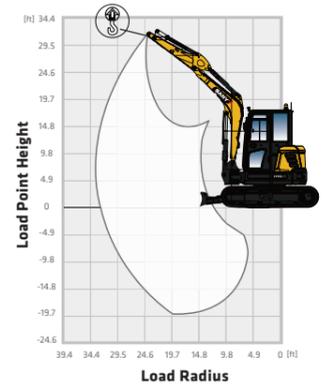
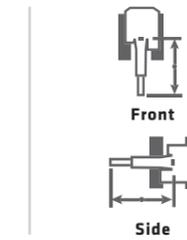
LIGHTS

- Work lights: 3 mounted on top of cab, 1 mounted on boom, magnetic beacon

LIFTING PERFORMANCE

- Standard 8' 4" Boom
- Standard 4' 7" Stick
- Standard 1' Track Shoes
- No Bucket

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.



Standard 4' 7" Stick (Blade Up/Blade Down)

B (HEIGHT)	6.6 FT		9.8 FT		13.1 FT		MAX	
LOAD POINT HEIGHT	Blade Up	Blade Down						
13.1							*1,585 lbs	*1,446 lbs
							1,565 lbs	1,446 lbs
9.8					*1,479 lbs	1,107 lbs	*1,400 lbs	1,003 lbs
					1,193 lbs	1,003 lbs	1,082 lbs	1,003 lbs
6.6			*1,918 lbs	1,680 lbs	*1,603 lbs	1,078 lbs	*1,349 lbs	847 lbs
			1,825 lbs	1,680 lbs	1,164 lbs	847 lbs	915 lbs	847 lbs
3.3			*2,657 lbs	1,545 lbs	*1,861 lbs	1,027 lbs	*1,411 lbs	796 lbs
			1,687 lbs	1,545 lbs	1,111 lbs	796 lbs	860 lbs	796 lbs
0			*3,047 lbs	1,470 lbs	*2,035 lbs	990 lbs	*1,601 lbs	820 lbs
			1,603 lbs	1,470 lbs	1,074 lbs	820 lbs	886 lbs	820 lbs
-3.3	*5,095 lbs	2,751 lbs	*2,937 lbs	1,464 lbs	*1,907 lbs	990 lbs	*1,753 lbs	946 lbs
	3,091 lbs	2,751 lbs	1,603 lbs	1,464 lbs	1,074 lbs	946 lbs	1,025 lbs	946 lbs
-6.6	*3,574 lbs	2,848 lbs	*2,083 lbs	1,523 lbs			*1,744 lbs	1,373 lbs
	3,192 lbs	2,848 lbs	1,664 lbs	1,523 lbs			1,497 lbs	1,373 lbs

Standard 5' 5" Stick (Blade Up/Blade Down)

B (HEIGHT)	6.6 FT		9.8 FT		13.1 FT		MAX	
LOAD POINT HEIGHT	Blade Up	Blade Down						
13.1							*1,321 lbs	1,228 lbs
							*1,321 lbs	1,228 lbs
9.8					*1,296 lbs	1,109 lbs	*1,142 lbs	897 lbs
					1,197 lbs	1,109 lbs	968 lbs	897 lbs
6.6					*1,453 lbs	1,074 lbs	*1,105 lbs	767 lbs
					1,160 lbs	1,074 lbs	829 lbs	767 lbs
3.3			*2,445 lbs	1,548 lbs	*1,744 lbs	1,016 lbs	*1,149 lbs	723 lbs
			1,689 lbs	1,548 lbs	1,107 lbs	1,016 lbs	783 lbs	723 lbs
0	*2,504 lbs	*2,504 lbs	*2,504 lbs	1,451 lbs	*1,967 lbs	970 lbs	*1,287 lbs	741 lbs
	*2,504 lbs	*2,504 lbs	1,590 lbs	1,451 lbs	1,054 lbs	970 lbs	802 lbs	741 lbs
-3.3	*4,566 lbs	2,687 lbs	*2,965 lbs	1,429 lbs	*1,958 lbs	957 lbs	*1,612 lbs	840 lbs
	3,023 lbs	2,687 lbs	1,567 lbs	1,429 lbs	1,041 lbs	957 lbs	910 lbs	840 lbs
-6.6	*4,065 lbs	2,769 lbs	*2,388 lbs	1,468 lbs			*1,656 lbs	1,142 lbs
	3,111 lbs	2,769 lbs	1,607 lbs	1,468 lbs			1,241 lbs	1,142 lbs

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