

SY235H



MEDIUM HYDRAULIC EXCAVATOR **53,973 LBS** OPERATING WEIGHT
164 HP NET HORSEPOWER
21.2 FT MAX DIGGING DEPTH

TECHNICAL SPECIFICATIONS

MACHINE DATA

Operating Weight*	53,973 lbs
Ground Pressure	5.4 psi
Engine	Cummins QSB6.7 T4F
Displacement	6.7 L
Gross Power	173 HP
Hydraulics	Positive Flow Control w/Pilot Control
Main Hydraulic Pump	Axial Piston - Variable Displacement
Operating Flow (maximum)	2 x 60 gal/min
Operating Pressure (maximum)	4,975 psi
Travel Motor	Axial Piston with Park Brake
Travel Pressure (maximum)	4,975 psi
Travel Speeds (maximum)	2.1 / 3.4 mph
Travel Effort (maximum)	49,908 lbf
Grade Capability (maximum)	35°
Swing Motor	Axial Piston with Planetary Reducer
Swing Pressure (maximum)	3,989 psi
Swing Speed (maximum)	11.1 RPM
Undercarriage (standard)	Steel Track
Track Shoe Width (standard)	31"
Track Rollers (per side)	9
Carrier Rollers (per side)	2

DIMENSIONS

Boom Length	18' 8"
Stick (Arm) Length	9' 7"
A Transport Length	31' 7"
B Transport Width	9' 5"
C Transport Height	10' 9"
D Upper Structure Width	9' 4"
E Cab Height	10' 4"
F Track Width (standard shoe)	31"
G Track Gauge	7' 9"
H Ground Clearance	1' 6"
I Tail Swing Radius	9' 6"
J Track Length on Ground	11' 11"
K Track Length	14' 7"

SERVICE REFILL CAPACITIES

Fuel Tank Capacity	97.7 gal
DEF Tank Capacity	11.9 gal
Hydraulic Tank Capacity	74.0 gal
Engine Oil Capacity	7.1 gal
Cooling System Capacity	7.3 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



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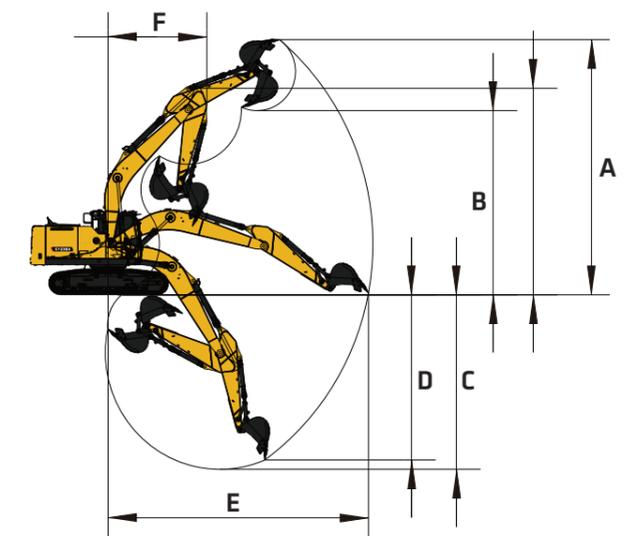
WORKING SPECIFICATIONS

WORKING RANGE

Boom Length	18' 8"
Stick (Arm) Length	9' 7"
A Maximum Digging Height	31' 11"
B Maximum Dumping Height	22' 1"
C Maximum Digging Depth	21' 2"
D Maximum Vertical Wall Digging Depth	19' 1"
E Maximum Reach at Ground Level	31' 11"
F Minimum Swing Radius	11' 10"

DIGGING PERFORMANCE

Boom Length	18' 8"
Stick (Arm) Length	9' 7"
Bucket Breakout Force (ISO)	33,721 lbf
Stick (Arm) Digging Force (ISO)	26,303 lbf



*Operating weight is for the SY235H with no attachments, and standard stick.
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MEDIUM HYDRAULIC EXCAVATOR SY235H

STANDARD FEATURES

ENGINE

- Cummins QSB6.7 T4F
- Auto-idle & Auto-idle-shutdown
- Dual-element dry air filter
- Batteries 24V (2 - 12V)
- Coolant Expansion tank
- Electronic engine control
- Enclosed fan guard
- Engine coolant to -34 deg. F
- Fuel filter with water separator
- Full-flow oil filter
- Turbocharger with charge air cooler
- High flow hydraulically powered cooling fan
- 500-hour engine-oil-change interval
- 70% (35 deg.) off-level capability
- Engine air precleaner
- Severe-duty fuel filter

HYDRAULIC SYSTEM

- Spring-applied, hydraulically released automatic swing brake
- Auxiliary hydraulic-flow adjustments through monitor
- Control pattern change valve
- Auxiliary hydraulics with 1 and 2-way combination piping for high flow
- Auxiliary hydraulics with 2- way rotation piping and controls
- Auxiliary pilot and electric controls
- Quick coupler plumbing and control

UNDERCARRIAGE

- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and 2 additional per side
- 2-speed travel selection
- Upper carrier rollers (2)
- Sealed and lubricated track chain
- Triple semi-grouser shoes, 31"
- Undercarriage frame opening guard

BOOM & STICK

- Boom 18' 8"
- Stick, 9' 7"

UPPERSTRUCTURE

- Right-hand, left-hand, and counterweight mirrors
- Vandal lock: Cab door /Service door/ Toolbox/Cab Filter
- Debris screen in side panel
- Remote-mounted engine oil and fuel filters
- Heavy duty triangle channel frame guard

ATTACHMENTS

- Convenient grease points
- Centralized lubrication system
- Dirt seals on all bucket pins
- Oil-impregnated bushings
- Reinforced resin thrust plates
- Buckets: Heavy duty / Heavy-duty high capacity / Side cutter and teeth

OPERATOR'S STATION

- Adjustable independent-control positions
- AM/FM radio with USB charging and Bluetooth® connectivity
- Auto climate control/air conditioner/heater/pressurizer
- Built-in Operator's Manual storage compartment and manual
- 12 and 24V outlets 60 watt 5 amp
- Deluxe heated air suspension cloth seat with adjustable armrests
- Heavy duty rubber floor mat
- Front windshield wiper with intermittent speeds
- Illuminated gauge: diesel exhaust fluid, engine coolant, and fuel levels
- Horn, electric
- Hour meter, electric
- Hydraulic shutoff lever, all controls
- Interior light
- Large cup holder
- Digital Power mode selection: 3 power modes
- Digital tool selection: bucket, shear, hammer, etc.
- 10" Touch screen LCD monitor
- Motion alarm with cancel switch (conforms to SAE J994)
- Auxiliary hydraulic control switches in right console lever
- 3" Orange retractable seat belt
- Transparent overhead hatch
- Heated or cooled food/beverage storage
- Hydraulic oil filter restriction indicator light
- Protection screens for cab front, rear, and side (optional)

ELECTRICAL

- 60-amp alternator
- Ground level electrical disconnect (lockout tag out)
- Blade-type multi-fused circuits
- Positive-terminal battery covers
- Rearview and blind-side camera

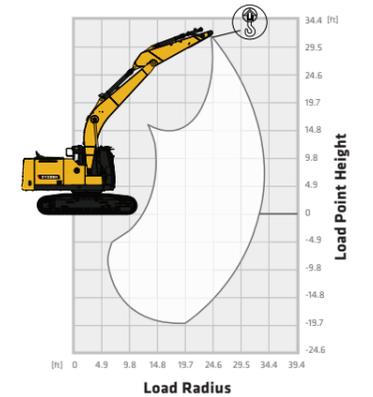
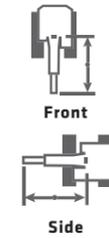
LIGHTS

- Bright LED worklight package

LIFTING PERFORMANCE

- Standard 18' 8" Boom
- Standard 9' 7" Stick
- Standard 31" 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.



9' 7" Stick

LOAD RADIUS	9.8 FT		14.8 FT		19.7 FT		24.6 FT		29.5 FT	
LOAD POINT HEIGHT										
19.7 ft										
14.8 ft							7,096 lbs*	7,096lbs	6,816 lbs*	6,816 lbs
9.8 ft			14,330 lbs*	14,330 lbs*	11,854 lbs*	11,854 lbs*	9,129 lbs*	9,129 lbs*	9,499 lbs*	7,515 lbs
4.9 ft			18,281 lbs*	18,281 lbs	13,876 lbs*	13,876 lbs	9,627 lbs*	9,627 lbs	8,335 lbs*	7,354 lbs
0 ft	16,929 lbs*	16,929 lbs*	21,136 lbs*	21,136 lbs	15,551 lbs*	12,710 lbs	10,569 lbs*	10,569 lbs	8,196 lbs	7,220 lbs
-4.9 ft	22,198 lbs*	22,198 lbs	18,777 lbs*	18,777 lbs	16,484 lbs*	12,375 lbs	11,660 lbs*	9,614 lbs		
-9.8 ft	31,352 lbs*	31,352 lbs*	18,704 lbs*	18,704 lbs	16,372 lbs*	12,293 lbs	10,620 lbs	9,305 lbs		
-14.8 ft	28,299 lbs*	28,299 lbs*	19,795 lbs*	19,795 lbs	14,568 lbs*	12,505 lbs	10,428 lbs	9,120 lbs		