PRODUCT **SPECIFICATIONS**

LARGE EXCAVATOR

SY385C
3.2 M STICK

STANDARD FEATURES

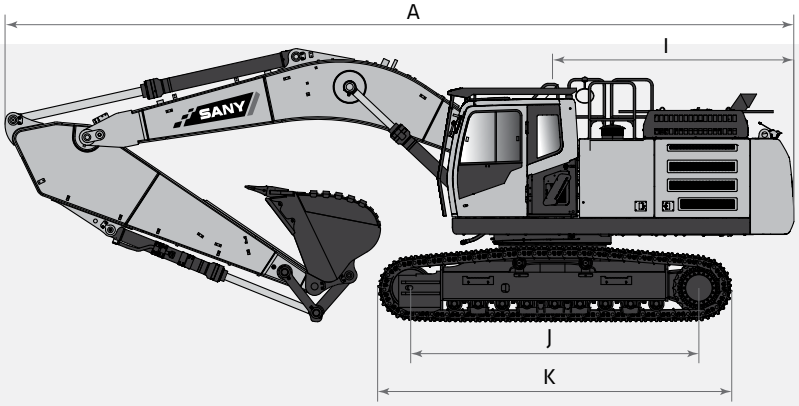
- Heavy-duty, long undercarriage
- 1-way and 2-way primary auxiliary and 2-way secondary auxiliary circuits with dedicated auxiliary rotate pump
- 10.4" touchscreen display
- Heated air ride seat with adjustable independent control positions
- Blind side and rear view cameras
- Powerful Cummins Engine

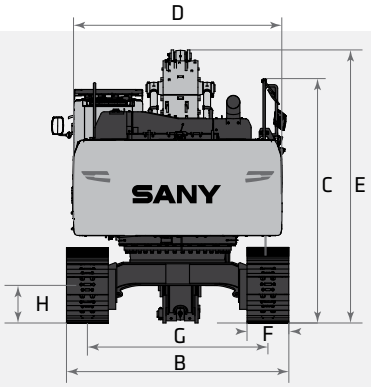
314 hp
Gross Power

24'
Dig Depth

82,230 lbs
Operating Weight

52,875 lbf
Bucket Breakout





TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		
Operating Weight	82,232 lbs	37 300 kg
Ground Pressure	9.9 psi	68.0 kPa
Engine	Cummins QSL9 Stage V / Tier4F	
Displacement	542 in³	8.9 L
Gross Power @2,100 RPM	314 HP	231 kW
Hydraulics	Positive Flow w/Pilot Control	
Main Hydraulic Pump	Axial Piston – Variable Displacement	
Operating Flow (maximum) 2@504 L/min	190 gal/min	720.0 L/min
Operating Pressure (maximum)	4,975 psi	34.3 MPa
Travel Pressure (maximum)	4,975 psi	34.3 MPa
Slew Pressure	4,134 psi	26.0 MPa
Pilot Pressure	566 psi	3.9 MPa
Travel Motor	Axial Piston with Park Brake	
Travel Pressure (maximum)	4,975 psi	34.3 MPa
Travel Speeds (maximum)	1.9 / 3.1 mph	3 / 5 km/hr
Tractive Effort (maximum)	71,938 lbf	320 kN
Grade Capability (maximum)	35°	
Swing Motor	Planetary Drive w/Axial Piston Motors	
Swing Pressure (maximum)	4,134 psi	28.5 MPa
Swing Speed (maximum)	8.8 RPM	
Undercarriage (standard)	Steel Track	
Number of Upper Rollers (per side)	2	
Number of Lower Rollers (per side)	9	

DIMENSIONS

DIMENSIONS			
	Boom Length	21' 4"	6 500 mm
	Stick (Arm) Length	10' 6"	3 200 mm
A	Transport Length	36' 6"	11 137 mm
B	Transport Width	9' 9"	3 190 mm
C	Transport Height	12' 3"	3 350 mm
D	Upper Width	9' 9"	2 986 mm
E	Cab Height	11' 5"	3 490 mm
F	Track Width (standard shoe)	31"	800 mm
G	Track Gauge	7' 10"	2 590 mm
H	Minimum Ground Clearance	1' 9"	537.5 mm
I	Tail Swing Radius	11' 4"	3 461 mm
J	Length Center Idler to Center Sprocket	13' 7"	4 135 mm
K	Track Length	16' 7"	5 080 mm

SERVICE REFILL CAPACITIES

SERVICE REFILL CAPACITIES		
Fuel Tank Capacity	132 gal	600.0 L
DEF Tank Capacity	19 gal	72.0 L
Hydraulic Tank Capacity	117 gal	440.0 L
Engine Oil Capacity	9.5 gal	36 L
Cooling System Capacity	7.9 gal	36.0 L

*Based on theoretical calculation at max flow with no load. Subject to alterations. In the interest of continual equipment development

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STANDARD AND OPTIONAL EQUIPMENT

s = standard / **o** = optional

SY385C	ENGINE
s	8.9l Cummins QSL9
s	Auto-idle
s	Dual-element dry air filter
s	Batteries 24V (2 – 12V)
s	Coolant Expansion tank
s	Electronic engine control
s	Enclosed fan guard
s	Engine coolant to –37 deg. C (–34 deg. F)
s	Fuel filter with water separator
s	Full-flow oil filter
s	Turbocharger with charge air cooler
s	High flow electric clutch actuated fan
s	500-hour engine-oil-change interval
s	70% (35 deg.) off-level capability
s	Engine air precleaner
s	Severe-duty fuel filter
	HYDRAULIC SYSTEM
s	Spring-applied, hydraulically released automatic swing brake
s	Auxiliary hydraulic-flow adjustments through monitor
s	Spring-applied, hydraulically released automatic swing brake
s	Control pattern change valve
s	Auxiliary hydraulics with 1 and 2-way combination piping for high flow
s	Auxiliary hydraulics with 2- way rotation piping and controls
s	Auxiliary pilot and electric controls
s	Quick coupler plumbing and control
	UNDERCARRIAGE
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 additional per side
s	2-speed travel selection
s	Upper carrier rollers (2)
s	Sealed and lubricated track chain
s	Triple semi-grouser shoes, 800 mm (32")
s	Undercarriage frame opening guard
	BOOM & STICK
s	Boom 6.5 m (21' 3")
s	Stick, 3.2 m (10' 5")
o	Stick, 3.9 m (13' 1")
	UPPERSTRUCTURE
s	Right-hand, left-hand
o	Counterweight mirrors
s	Vandal lock with ignition key: Cab door /Service door/ Toolbox/Cab Filter
s	Debris screen in side panel
s	Remote-mounted engine oil and fuel filters
s	Heavy duty triangle channel frame guard
	ATTACHMENTS
s	Convenient grease points
o	Centralized lubrication system

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STANDARD AND OPTIONAL EQUIPMENT

s = standard / **o** = optional

SY385C	ATTACHMENTS CONTINUED
s	Dirt seals on all bucket pins
s	Oil-impregnated bushings
s	Reinforced resin thrust plates
o	Quick coupler
o	Buckets: Heavy duty / Heavy-duty high capacity / Side cutter and teeth
	OPERATOR'S STATION
s	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
s	AM/FM radio with USB charging and Bluetooth® connectivity
s	Auto climate control/air conditioner/heater/pressurizer
s	Built-in Operator's Manual storage compartment and manual
s	12V and 24V outlets 60 watt 5 amp
s	Deluxe heated air suspension cloth seat with adjustable armrests
s	Heavy duty rubber floor mat
s	Front windshield wiper with intermittent speeds
s	Touchcreen Monitor 10.4". Displays Fuel, DEF, Engine temp, Oil temp.
s	Horn, electric
s	Hour meter, electric. In touch screen.
s	Hydraulic shutoff lever, all controls
s	Interior light
s	Digital Power mode selection: 3 power modes- Low, Standard, and High
s	Digital tool selection: Bucket, Shear, Hammer, etc.
s	Multifunction color LCD monitor with: Diagnostic capability / Multiple-language / Maintenance tracking / Clock
s	System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
s	Motion alarm with cancel switch (conforms to SAE J994)
s	Auxiliary hydraulic control switches in right console lever
s	Seat belt, 2", retractable
s	Transparent overhead hatch
s	Heated or cooled food/beverage storage
s	Air-suspension heated seat
s	Hydraulic oil filter restriction indicator light
o	Protection screens for cab front, rear, and side
	ELECTRICAL
s	60-amp alternator
s	Ground level electrical disconnect (lockout tag out)
s	Blade-type multi-fused circuits
s	Positive-terminal battery covers
s	Rearview camera
	LIGHTS
s	Work lights: High power LED - 2 mounted on boom, 2 mounted on top of Cab, 1 mounted under step on right side of machine

INDUSTRY'S STRONGEST STANDARD WARRANTY | 5-YEAR* 5,000 HOURS

*Warranty applies to 2023 Excavator and Wheel Loader models only

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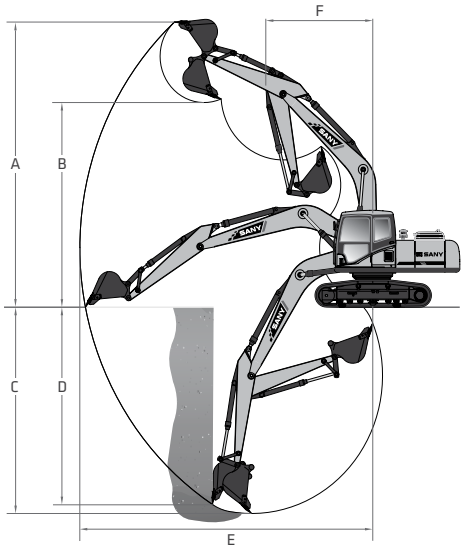
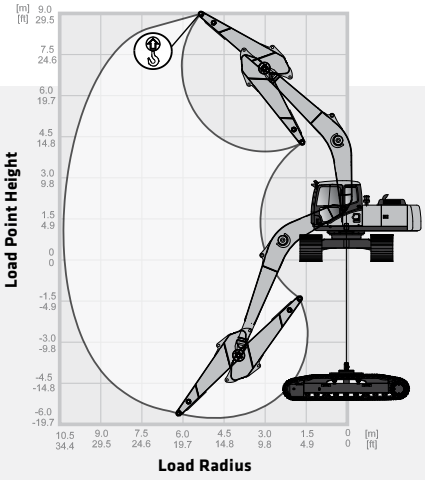
PRODUCT **SPECIFICATIONS LARGE EXCAVATOR** SY385C

WORKING RANGE



WORKING RANGE			
	Boom Length	21' 4"	6 500 mm
	Stick (Arm) Length	10' 6"	3 200 mm
A	Maximum Digging Height	35' 2"	10 723 mm
B	Maximum Dumping Height	24' 3"	7 396 mm
C	Maximum Digging Depth	24'	7 337 mm
D	Maximum Vertical Digging Depth	24'	7 304 mm
E	Maximum Digging Reach	35' 6"	10 831 mm
F	Minimum Swing Radius	13' 8"	4 178 mm

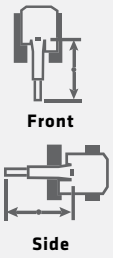
DIGGING PERFORMANCE		
Boom Length	21' 4"	6 500 mm
Stick (Arm) Length	10' 6"	3 200 mm
Bucket Breakout Force (ISO)	52,875 lbf	235.0 kN
Stick (Arm) Digging Force (ISO)	38,250 lbf	170.0 kN



LIFTING PERFORMANCE

Standard 21' 4" (6 500 mm) Boom
Standard 10' 6" (3 200 mm) Stick
Standard 31" (800 mm) 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.



LOAD RADIUS	9.8 FT 3.0 M		14.8 FT 4.5 M		19.7 FT 6.0 M		24.6 FT 7.5 M		29.5 FT 9.0 M	
LOAD POINT HEIGHT										
24.6 ft 7.5 m							16,413 lbs* 7 445 kg*	16,413 lbs* 7 445 kg*	16,552 lbs* 7 508 kg*	16,552 lbs* 7 508 kg*
19.7 ft 6.0 m					17,279 lbs* 7 838 kg*	17,279 lbs* 7 838 kg*	16,918 lbs* 7 674 kg*	16,918 lbs* 7 674 kg*	17,026 lbs* 7 723 kg*	16,142 lbs 7 322 kg
14.8 ft 4.5 m			24,855 lbs* 11 274 kg*	24,855 lbs* 11 274 kg*	20,532 lbs* 9 313 kg*	20,532 lbs* 9 313 kg*	18,488 lbs* 8 386 kg*	18,488 lbs* 8 386 kg*	17,544 lbs* 7 958 kg	14,513 lbs 6 583 kg
9.8 ft 3.0 m			32,750 lbs* 14 855 kg*	32,750 lbs* 14 855 kg*	24,313 lbs* 11 028 kg*	24,313 lbs* 11 028 kg*	20,461 lbs* 9 281 kg*	18,484 lbs 8 384 kg	18,111 lbs* 8 215 kg*	13,675 lbs 6 203 kg
4.9 ft 1.5 m			37,950 lbs* 17 214 kg*	34,987 lbs 15 870 kg	27,460 lbs* 12 456 kg*	23,922 lbs 10 851 kg	22,251 lbs* 10 093 kg*	17,906 lbs 8 122 kg	18,733 lbs* 8 497 kg*	13,413 lbs 6 084 kg
0 ft 0 m			39,461 lbs* 17 899 kg*	34,226 lbs 15 543 kg	29,198 lbs* 13 244 kg*	23,283 lbs 10 561 kg	23,371 lbs* 10 601 kg*	17,498 lbs 7 937 kg	19,421 lbs* 8 809 kg*	13,693 lbs 6 211 kg
-4.9 ft -1.5 m	35,232 lbs* 15 981 kg*	35,232 lbs* 15 981 kg*	38,649 lbs* 17 531 kg*	34,183 lbs 15 505 kg	29,361 lbs* 13 318 kg*	23,047 lbs 10 454 kg	23,462 lbs* 10 642 kg*	17,331 lbs 7 861 kg	20,172 lbs* 9 150 kg*	14,652 lbs 6 646 kg
-9.8 ft -3.0 m	48,843 lbs* 22 155 kg*	48,843 lbs* 22 155 kg*	36,039 lbs* 16 347 kg*	34,498 lbs 15 648 kg	27,862 lbs* 12 638 kg*	23,166 lbs 10 508 kg	21,982 lbs* 9 971 kg*	17,463 lbs 7 921 kg	20,973 lbs* 9 513 kg*	16,735 lbs 7 591 kg
-14.8 ft -4.5 m	41,434 lbs* 18 794 kg*	41,434 lbs* 18 794 kg*	31,114 lbs* 14 113 kg*	31,114 lbs* 14 113 kg*	23,925 lbs* 10 852 kg*	23,166 lbs 10 750 kg			21,718 lbs* 9 851 kg*	21,446 lbs 9 728 kg

* Indicates load limited by hydraulic lifting capacity.

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