SANY HEAVY INDUSTRY INDIA PVT. LTD.

HEAD OFFICE

Address : Plot No. E-4, Chakan Industrial Area Phase-III,
Village Kuruli, Taluka Khed, District Pune - 410501,
Maharashtra, INDIA.

Tel : +91 21 35670288, Fax: +91 21 35670300

E-mail : customercare@sany.in

Website : www.sany.in

Toll Free No.: 1800-209-3337

SANY BHAROSA
Toll Free No
1800-209-3337
SANY SERVICE
Closer to you!

SANY
Quality Changes the World

Operating Weight : 7920 kg **Bucket Capacity : 0.32 m³** **Engine Power : 53.6HP (40kW)/2100rpm**

EXCELLENT PERFORMANCE
HIGH RELIABILITY
EASE OF SERVICEABILITY

SERIES 9

SY80C

HYDRAULIC EXCAVATOR

The C-9 series of excavators developed by SANY adopts major breakthroughs ranging from power system to control system for high efficiency and energy savings. This, in addition to insistence on 'Quality-In-Everything-We-Do', has delivered the world-class excavators best suited for the multitude of your work requirements with superior advantages of uninterrupted operations, unmatched productivity at better fuel economy, helping you make more profits.

EXCELLENT PERFORMANCE

SY80C-9 excavator is built with well-renowned Isuzu engine and superior synchronization with advanced hydraulic system offering best balance of performance demands and fuel economy to suit job requirements and application.

HIGH RELIABILITY

Sany design and manufacturing capabilities have resulted into durability with improved life of components and longer service life.

BEST IN CLASS OPERATOR COMFORT

The machine is featured with comfortable seating arrangement, optimized cabin space, wider visibility, safety grills and easy access to switches. Overall, the new cabin provides comfortable and safe environment for the operator.

EASE OF SERVICEABILITY

With superior attention to details, smart provisions are made for easy serviceability and simplified maintenance that results into improved uptime.

REMOTE MONITORING SYSTEM

Remote monitoring system, called EVI, installed in the machines helps in tracking various working parameters.
This information can be used for improving site efficiency, maximizing operating performance while reducing maintenance costs.

EXCELLENT PERFORMANCE

SANY SY80C-9 excavator is designed for excellent performance with combination of superior fuel economy and best in class productivity.

SUPERIOR FUEL EFFICIENCY

LOAD SENSING CONTROL SYSTEM

The oil flow is directly proportional to the load. The continuous feedback received helps the oil flow to the desired area and thus reducing the unwanted oil and result in optimum fuel efficiency.

Pressure compensator built in the control system can realize flow sharing performance, which allows for excellent controllability.

WORK MODES AND AUTOIDLE

SY80C-9 is equipped with three working modes (S, L, B) to match engine speed, pump speed and system pressure with versatile work application. Automatic idle function reduces fuel consumption significantly leading to reduced operating cost.

HIGH PRODUCTIVITY

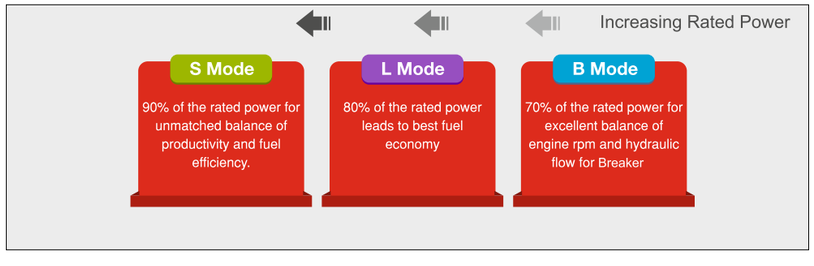
POWERFUL ENGINE

SY80C-9 is powered by well renowned Isuzu engine with exceptional work capacity and optimize fuel economy for moving heavy material quickly and efficiently.

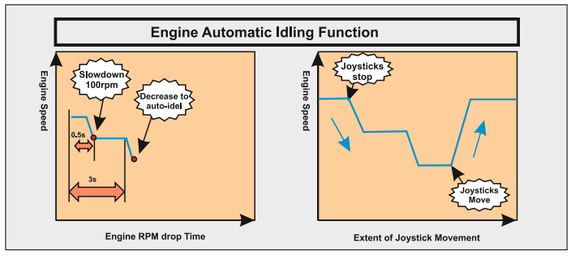
ADVANCED HYDRAULIC SYSTEM

when the machine deals with an operating requirement of moving heavy material quickly and efficiently, it needs the best hydraulic power that SY80C-9 offers.

The oil flow rate is directly proportional to the joystick operations & output pressure signal. It puts flow exactly where you need it, to facilitate smoother operation with great efficiency for higher productivity at efficient fuel economy.



Power Mode



Auto-Idle System

HIGH RELIABILITY

The boom and arm is made up of large box-type structure welded with high strength steel sheet. Welded plates for excellent torsional resistance inside the structure leads to unmatched durability that prevents deformation under harsh conditions.

ROBUST STRUCTURE

REINFORCED BOOM

Robotically welded, heavy-duty boom is designed for best distribution of load throughout the boom structure which reduces lateral stress by 10% during the boom swing.

REINFORCED ARM

Arm's rear support is specially reinforced offering excellent torsional resistance imparting greater strength to the arm assembly for longer lifetime.

WEAR RESISTANT BUCKET

High strength bucket surface gives longer service life. Optimized design helps in reducing rock and sand resistance in turn decreases wear of the bucket body while digging.

HIGH STRENGTH UPPER FRAME

Heavy duty upper frame is designed to improve bending strength of the platform. D-shaped large section stronger beam can withstand external shocks.

ENHANCED UNDERCARRIAGE

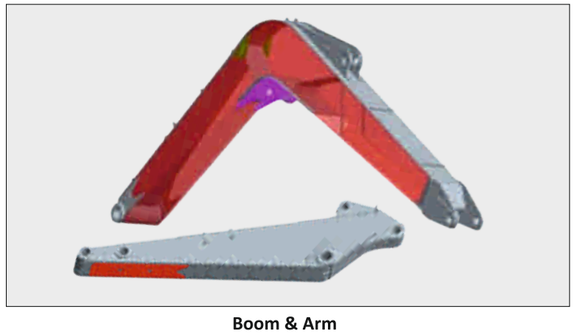
Undercarriage is made up of high strength alloy steel with good wear resistance and durability.

X-TYPE FRAME AND BOX TYPE STRUCTURE

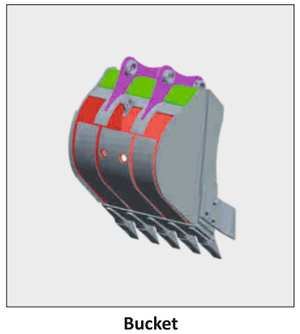
It has high strength and stiffness with excellent torsional and bending resistance. Reinforcing plate has been added to improve the strength of the lower frame. This improves working life.

ROBUST DOZING BLADE

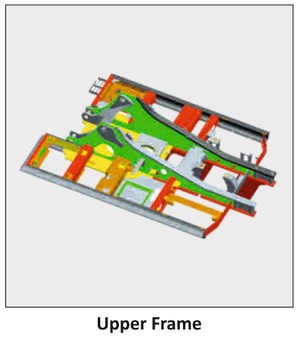
Robust blade design provides the ability of tilting the blade up to 10°. Top extension attachments are designed to maximize pushing capacity by preventing spill over.



Boom & Arm

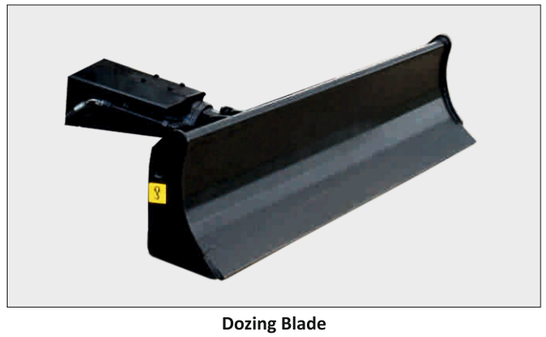


Bucket



Upper Frame

X Type Frame



Dozing Blade

BEST IN CLASS OPERATOR COMFORT

Newly designed spacious air conditioned cabin is equipped with adjustable suspension seat. Height, backrest inclination, armrest height, rear cushioning of the seat is designed for operator comfort. This reduces operator fatigue and enhances working efficiency.

COMFORT

MULTI-DUCT AIR CONDITIONING SYSTEM

The standard large capacity air conditioner keeps in-cab air fresh by purification & recirculation which reduces operator fatigue.

ADVANCE SILICON RUBBER SHOCK ABSORBERS

Cabin bearing is attached to upper frame with silicone viscous shock absorber which effectively dampens vibrations while enhancing operator comfort.

HYDRAULIC PILOT LOCK

Pilot lock disengages hydraulic system from joystick operations to prevent operating accidents.

ERGONOMICALLY DESIGNED JOYSTICK

Control levers and joysticks control are smartly designed for horizontal and vertical stroke of joystick for low lever effort.

PRESSURIZED HERMETIC CABIN

Cabin is air tight sealed and is dust free. It prevents dust entry into cabin gadgets by maintaining pressure variation between cabin and outside atmosphere.

CLEAR VISIBILITY

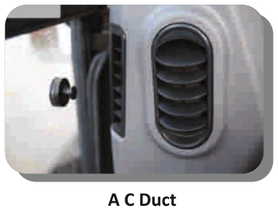
Larger windows of the newly-designed spacious cab provide you with a wider view. The operator can clearly see the work equipment condition and the surrounding through the front, side and back windows.

SAFETY HEAT SHIELD AND FAN COVER

Engine radiator are insulated with heat resistant cover. This fan is fully enclosed with wire-mesh to reduce risk of accidents.

OTHER SAFETY PROVISIONS

Operator's cabin is equipped with safety hammer, fire extinguisher, seat belt.



A C Duct

Shock Absorber

Pilot Lock

Joystick

Spacious Cabin

Visibility

Fan Cover

Safety Hammer

EASE OF SERVICEABILITY

The use of OEM parts and quality elements effectively extends the service life and maintenance intervals. The time for maintenance is also reduced. Remote installation of replacement parts gives easy maintenance, higher utility and lower service cost.

EASY ACCESS

FILTER REPLACEMENT COMFORT

Access to the various filters (engine filter, pilot filter and A.C. filter) is very easy being mounted in hydraulic pump compartment for making cleaning easier.

EASY CLEANING FOR RADIATOR

Radiator and oil cooler packing is easily washable which leads into excellent cooling capacity and ensures prolonged engine running without being overheated.

DRAIN PLUG ARRANGEMENT

Radiator, fuel tank, hydraulic tank and engine oil pan are provided with drain-plug at the bottom to flush out the debris and waste liquids at the time of oil replacement and cleaning. The tank bottom has drain plug guard to prevent physical damage.

TWO-LEVEL FUEL FILTER

The fuel filter system is conveniently placed for easy access with two level filtration and additional strainer filter which removes contamination from fuel. This kind of filtration system prolongs engine life.

EASE OF REGULAR CHECK UP

Regular performing components (swing gear greasing, engine oil and hydraulic oil) of the machine can be easily checked up which leads to time saving and long working ability.

LARGE LCD COLOR DISPLAY

Cabin is equipped with waterproof, dust proof and vibration proof anti-interference colour LCD display which provides real-time information regarding machine working status, abnormal alarm function etc. ensuring safe operation.

IMPROVED GREASING

Centralized greasing points are provided for easy greasing of various points of boom assembly.

Air Filter

AC Filter Location

Radiator

Drain Plug

Water Separator & Fuel Filter

Engine Oil Level Check-up Access

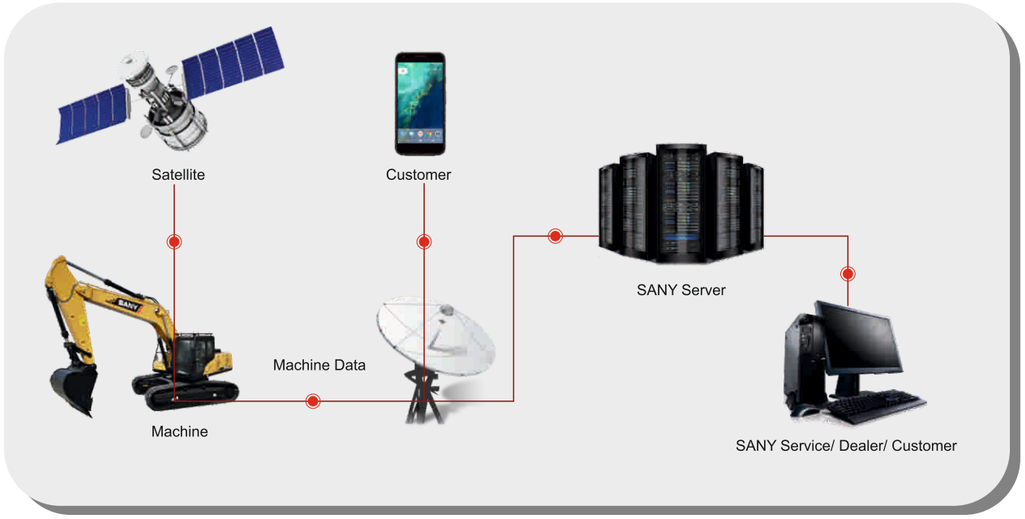
Hydraulic Oil Level Check-up Access

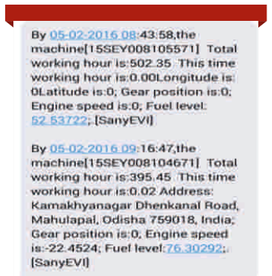
Color Monitor

Centralized Greasing Points

EVI REMOTE MONITORING

EVI in SANY C-9 series excavators is a sophisticated system that helps you to remotely monitor wide range of excavator functions and access operating information.



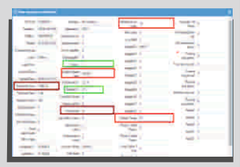


Daily SMS updates

1. Hour Meter Reading
2. Machine run on that particular day
3. Location of the machine
4. Engine speed & Gear Position
5. Fuel Level

MACHINE OPERATING MANAGEMENT

Daily machine operation hours, non-working hours, engine idling time can be monitored and remaining fuel in the diesel tank can be determined.



REAL-TIME MONITORING

The real-time monitoring system displays various operating parameters like hydraulic oil pressure, engine rpm, working mode along with selected gear, coolant temperature, voltages and current etc.

LOCATION & TRACKING

Machine's current location can be captured for easy tracking.Route to working site of the machine can be determined as well.

Technical specification

ENGINE	
Model	Isuzu 4JG1-NABGB-04-C2-QL
Type	4 Cylinder, Inline, Water Cooled
Rated Engine Power	53.6HP (40kW)/2100rpm
Max. Torque	191N.m @1800 rpm
Batteries	2 X 12 V
Displacement	3.059 L

CONTROL SYSTEM	
Control Hydraulic System	Load Sensing System
Working Modes	S L B
Remote Monitoring System	GPRS, GPS, GIS

HYDRAULIC SYSTEM	
Main Pumps	Variable Displacement Axial Piston Pumps
Max. Flow	149 lpm
Travel Motor	2 Axial Piston Motor with Parking Brake
Swing Motor	1 Axial Piston Motor with Swing Holding Brake

RELIEF VALVE SETTINGS	
Implement Circuit	28 Mpa
Swing Circuit	23.5 Mpa
Travel Circuit	26.3 Mpa
Pilot Circuit	3.5 Mpa

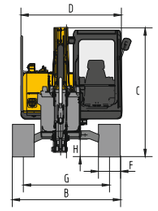
UNDERCARRIAGE & WORKING DEVICE	
Track Shoes (Each Side)	39
Upper Rollers	1
Lower Rollers	5
Track Guard (Each Side)	2
Std. Track	450 mm
Std. Boom	3720 mm
Std. Arm	1620 mm
Std. Bucket	0.32 m^3

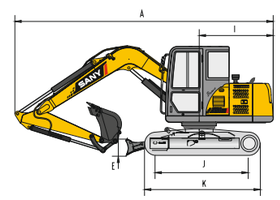
PERFORMANCE	
Max. Travel Speed (High/Low)	4.4/2.4 km/h
Swing Speed	11.5 rpm
Grade ability	70% / 35°
Ground Pressure	33 kPa
Max. Tracking Force	58 kN
Bucket Digging Force	56 kN
Arm Digging Force	38 kN

SERVICE REFILL CAPACITIES		
Hydraulic Tank	120 L (Tank)	90 L (Refill)
Fuel Tank	150 L	
Engine Oil	9 L	
Radiator	12 L	
Swing Device	1.5 L	
Travel Device	2x2.5 L	

CAB	
AC	Std.

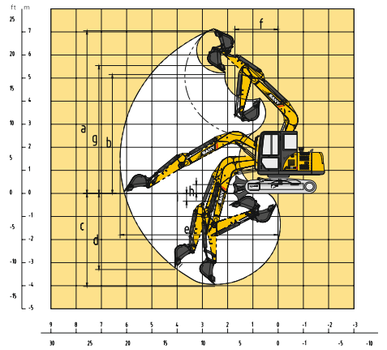
DIMENSION (Unit: mm)





DIMENSION (Unit: mm)	Arm 1620
A. Overall Length	6095
B. Overall Width	2220
C. Overall Height	2610
D. Upper Width	2040
E. Blade Height	405
F. Std. Track Shoe Width	450
G. Track Gauge	1750
H. Min. Ground Clearance	380
I. Rear-end Swing Radius	1800
J. Distance between Tumbles	2195
K. Under Carriage Length	2820

WORKING RANGE

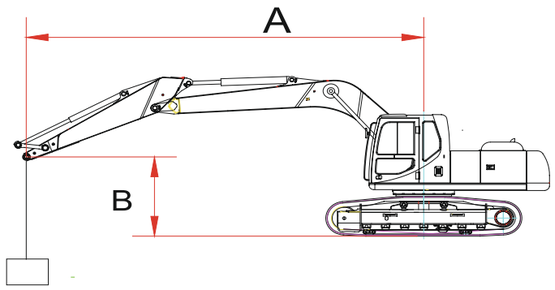


WORKING RANGE (Unit: mm)	Arm 1620
a. Max. Cutting Height	7060
b. Max. Dumping Height	5155
c. Max. Digging Depth	4020
d. Vertical Digging Depth	3290
e. Max. Digging Reach	6240
f. Min. Swing Radius	1720
g. Max. Height at Min Swing Radius	5550
h. Max. Ground Clearance of Blade Up	350
I. Max. Depth of Blade Down	360

BUCKET

Capacity (m^3)	Width (mm)	Weight (kg)	Tooth Point	Arm Length (m)
0.32 GP-Std.	800	240	5	1.62

LIFTING CAPACITY



Arm Length:1620mm

Rating Over Front

Rating Over Side

A / B	Max			2m		3m		4m		5m	
	Maximum										
5m	3812	1500	1500			1700	1700				
4m	4564	1350	1250			1850	1850	1800	1500		
3m	5008	1250	1050	3200	3200	2300	2200	1800	1450	1300	1050
2m	5225	1150	950			2650	2100	1750	1400	1250	1000
1m	5243	1150	900			2550	1950	1650	1400	1250	1000
0	5065	1200	950			2450	1900	1650	1300	1200	950
-1m	4668	1300	1050	4350	3600	2450	1900	1600	1300		
-2m	3986	1650	1300	4450	3650	2450	1900				

Remarks:
1.Rated figure meets the criterion of GB/T 13331-2005/ISO 10576
2.Rated rollover loading is 75% of static rollover loading, rated limiting hydraulic weight is 87% of limiting hydraulic weight.
3.Loading radius is the distance from the loading point to the swing center.
4.The unit of figure is mentioned in Kilogram

Pressure and Capacities

WEIGHTS AND GROUND PRESSURE

Shoe type	Shoe width	Model SY80C-9	
		Operating weight	Ground pressure
Triple grouser	450mm	7920kg	33Kpa

STANDARD EQUIPMENT

Engine
- Alternator 30A
- Dry triple-filtering air cleaner
- Cylindrical engine oil filter
- Fuel pre-filter
- Radiator with protective screen
- Auxiliary water tank for radiator
- Separately installed engine
- Water separator

Operator Station
- Noise proof steel-structured cab
- Toughened light-colour window
- 4 sillicone rubber damping support
- Openable roof hatch, upper front and left window
- Rear window, alternate exit
- Silent window wiper with washer
- Adjustable inclined seat with adjustable armrest
- FM radio with digital clock
- Footrest and floormat
- Loudspeaker,rear view mirror
- Seat belt and fire extinguisher
- Cup holder and cab light
- Ashtray
- Storage box, literature bag
- Hydraulic lockout control

Hydraulic System
- Control valve with main relief valve
- Spare oil port for control valve
- Strainer
- Return oil filter
- Pilot filter

Undercarriage
- Travel brake
- Travel motor guard
- H-track guiding mechanism
- Hydraulic track tensioner
- Bolted sprocket
- Carrier roller and track roller
- Rein forced track link with pin seal
- 450 mm track shoe
- Bottom coverplate

Swing Platform
- Fuel level float
- Hydraulic oil level gauge
- Toolbox
- Rear view mirror (R)
- Swing brake
- Grease barrel holder
- Counter weight

Indicator Lights
- Auto-idle engine warm up
- Engine coolant temperature
- Hi/Lo speed

Front Work Equipment
- Flange pin
- Welded lever
- Central lubrication system
- Dust ring-seal of bucket pin
- A variety of bucket for optional

Alarm Lights
- Oil pressure lack, engine coolant
- Overheat
- Throttle knob fault
- Fuel oil lack
- Voltage higher than specification
- Engine over speed

Monitoring System Gauge
- Standard battery
- Lockup engine hood
- Lockup fuel filler cap
- Anti-skid film,hand hold and passage
- Travel direction mark
- Hand grease gun

Optional
- Fully automatic air conditionar
- Non-dozer version
- Cabin front & Top Guard