SANY HYDRAULIC EXCAVATOR SY240C-9

Quality Changes the World
C9 SERIES
SY240C-9

Operating Weight: 23600kg
Bucket Capacity: 1.2m³ HD
Engine Power: 174 HP (128.5KW) / 2100 rpm
The C-9 series of excavators developed by Sany are using the latest technology from the power system to the control system, like DOMCS (Dynamic Optimization Intelligent Matching Control), Positive flow control, hydraulic system, Heavy duty structure. Sany adopted all new exclusive technology, major breakthroughs were made in energy saving, high efficiency, reliability. This makes C-9 series of machines adaptable to characteristics of long and continuous operation, high efficiency, long service life, environmental stability.

- **Low fuel consumption**
  - Low fuel consumption of engine,
  - Advanced positive flow hydraulic control system
  - DOMCS intelligent control system
  - Multi-function mode selection
  - Automatic idle speed function

- **High efficiency**
  - Powerful engine
  - High efficiency of hydraulic components
  - Original intelligent control system
  - With the large bucket volume

- **High reliability**
  - Adapt to tough working condition of engine
  - The high quality of hydraulic components
  - Enhanced upper frame and under carriage
  - High strength working device

- **Comfortable, safe and classic working environment**
  High strengthen FOPS cabin feature provides safety and reliability. Pressure sealed cabin feature provides anti-dust and low noise. Multiple adjustable seat features provides comfortable and convenient feeling. New type of silicone rubber shock absorber removes small cabin vibrations.

- **Low cost maintenance, convenient and quick**
  - Split type fuel filter gives economy maintenance
  - External mounting filter will be easy to change
  - Series-parallel type cooler allows to clean easy
  - Tilting under frame allows to clean easy

- **EVI remote monitoring center**

- **Technical specifications**
Innovation, continuous improvement of the design to ensure the machine’s energy saving and efficiency

DOMCS dynamic optimization matching intelligent control system
Dynamic optimization intelligent control adopts positive flow control system and constant torque control technology, which leads to achievement of the perfect match between main pump torque and engine power. DOMCS leads to best match of speed and torque leading to higher performance and lower fuel consumption.

10% more fuel efficient C-9 series
DOMCS intelligent control technology, to realize real-time matching of engine with the main pump’s power to ensure that engine working efficiency and lower fuel consumption by 10%

Low fuel consumption engine
The configuration of high-end direct multi-point fuel injection system can accurately control the engine’s fuel injection. Using turbocharged inter-cooled, optimization type multi-vortex combustor, increase the volume of air inflow, efficient burning, realize low fuel consumption and low operation maintenance cost.

Advanced positive flow hydraulic control system
Main pump pressure loss reduced by 2% compared with the current series of machines leading to improved power efficiency, and reduced energy losses. This reductions in power loss leads to better fuel efficiency and lower fuel consumption.

Multi-function mode selection
- **S Mode**: suitable for standard excavation and general applications.
- **H Mode**: suitable for heavy duty applications. Engine speed is optimised at 100% power output leading to highest working efficiency.
- **L Mode**: suitable for light duty applications.
- **B Mode**: suitable for Rock breaker applications and other attachments.

Automatic idle speed function
Equipped with automatic idle speed and acceleration function which reduced fuel consumption by 5% - 10%. Engine comes to auto idle in 3 seconds after operation stops. This system reduces the hydraulic system’s energy loss and the engine wear, which in turn saves energy and lower the engine noise. This further leads to longer engine and pump life. Engine and hydraulic system returns to optimum speed within 0.1 seconds upon joystick actuation.

High operation speed, high working efficiency
Advance electronically controlled hydraulic pump and main control valve with new dual core positive flow electronic controller improves the operations speed and gives faster response during load change.

High power engine
Sany special engine, strong power, provide enough power to ensure efficient operation. Made by the world famous manufacturer, high reliability, large capacity fuel tank, extend the excavator continuous operation ability under complex conditions.

High efficient hydraulic components
Advanced main pump control system with optimised internal pump components, enhances efficiency by 5% and advanced main control valve reduces average pressure loss by 15%. These leads to Appropriate automatic priority function with precision and speed during combined operations leading to increased efficiency by 7%.

Combined operations coordination.
Optimised boom and swing priority functions, precise control of each actuator’s flow distribution leads to improved combined operation efficiency resulting in higher productivity.

Enhanced boom and arm speeds
Regeneration circuits in the boom and arm function. improves the boom and arm function faster by adding return oil through check valve in the main circuit.

Innovative controller
With innovative dual-core processor, the processing speed of the controller has increased 66% compared with the previous generation, which can easily copeup with various complex conditions of operation requirements and rapid response load change which achieves higher operation efficiency.

New electronic control system
DOMCS realises the perfect match of engine and main pump, maximising the engine’s output power, improved working efficiency.
The engine customized for SANY gives high efficiency, low fuel consumption and high reliability while fully guaranteeing the excavator’s stability in continuous operation under severe weather conditions and satisfying customers for requirement of engine stability.

- **Six-cylinder diesel engine**
  Water-cooling turbo diesel engine, with six-cylinder, four-stroke direct-injection turbocharger and air-air intercooler. The overheat protection function limits travel speed when coolant reaches certain temperature. This ensures high reliability and stability of the machine as a whole.

- **Excellent Cooling Effect**
  Serially arranged coolers: water radiator, oil radiator, intercooler and condenser are serially arranged side by side; the aluminum radiator realized better cooling effect.

- **Displacement 6.494L**
  With the engine power of 128.5kw, SY240C-9 has a displacement up to 6.494L, which reduces the engine heat load and gives a longer service life.

- **High-strength Swing Platform**
  Reinforced plates, welded on the two main beam of swing platform, considerably improve the bending resistance performance.

- **Capability Against Distortion and Bending**
  Excellent High-strength Machine Body
  Reinforced X-frame modeled with digital tools, through finite element analysis on loading capacity, realizes high-strength structure.

- **Excellent Cooling Effect**
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- **Reliable Electronic Components**
  Waterproof, Shockproof, Dustproof large LCD monitor can ensure safe, precise and stable operation. This LCD can be easily read from various angles under different light conditions. With simple switch-on-off design, the monitor is operated easily. It also has function keys for multifunctional operation.

- **Reinforced Boom and Arm**
  The boom and arm use large-box structure, in which welded plates against torsion form a compact, strong and durable integrity that prevents deformation under larger digging force. With optimized design, the boom and the arm can provide considerable working range and depth on the occasion of ditching, excavating and common construction.

- **Reinforced Bucket**
  Standard reinforced bucket with highly rigid steel sheet, tips and side cutters can serve a longer period.

- **Long Track, and Tension Mechanism**
  Long track chain with additional reinforced links to increase their strength, which can absorb the shock when the machine travels on rough surface.

  The tension adjusting device is more reliable due to the adoption of a serially-arranged system that includes a grease-in tensioning cylinder and a damper spring.
Comfortable, safety and humanization operating environment

◆ Falling Object Protection Structure
The top plate of cab is punch-formed with thick high-strength steel sheet integrated with reinforced ribs which maximizes the safety of operator.

◆ Hydraulic Lockout Control
When the hydraulic lockout control is placed in LOCK position, all controls are inoperable, which prevents accidents caused by unintentional operation.

◆ Heat Insulation/ Fan Guard
Rear view mirror is mounted on both sides of the cab, which allows operator to observe the situation behind the excavator without looking back.

◆ Pump/Engine Screen
The pump chamber and engine chamber are separated with a screen, which can prevent leaked hydraulic oil from splashing onto the hot engine.

◆ Anti-skid Plates
Anti-skid plates are provided on the machine body to protect people from slipping during maintenance.

◆ Innovative Large Cab
The innovative large cab is equipped with an adjustable seat with suspension. The seat can be adjusted as desired. The rigidity of seat can also be adjusted according to the operator’s weight.

◆ Silicone Rubber Shock Absorber
Innovative silicone rubber shock absorber is fixed to the swing platform in six points, which has minimized the shock brought by rough road and engine or hydraulic impact, considerably increased the stability of cab, and improved the comfort of operator.

◆ Pressure Sealed Cab
The sealed design ensures that the air pressure inside the cab is higher than outside, thus preventing the dust invasion.

◆ Automatic Air Conditioner
The standard large-capacity air conditioner keeps in-cab air fresh by purifying fresh air and recirculation air. The quick temperature control ensures a comfortable temperature in cab all the year round.

◆ Longer Control Levers
The control levers and joysticks designed and arranged according to ergonomic, can be operated easily. Each operation button is within the reach of operator.

◆ Low Noise Cab
With a high-rigid structure, the new cab uses damping materials that give a better noise-absorbing effect. The adoption of properly sealed windows, noise reduction design and low-noise engine enables the machine to produce a noise as low as a passenger car.

◆ Heat Insulation/ Fan Guard
The engine is housed in excellent heat insulation to prevent accidental burns. The radiator fan is enclosed with a protective net cover that can prevent objects from falling into the fan to damage its blades.

◆ Pressure Sealed Cab
The sealed design ensures that the air pressure inside the cab is higher than outside, thus preventing the dust invasion.
Advance machine structure design and configuration, for convenient and quick service and low cost maintenance

- **Easy Replacement of Filter Element**
  The primary and secondary fuel filters and water separator reduce the early wear of injection pump and nozzle and extend the service life of engine. Opening the access door, you can replace them quickly on the ground.

- **Large-capacity Fuel Tank with Anti-rust Treatment**
  The large capacity of fuel tank reduces the times for refueling. Interior of the fuel tank has been treated well against rusting. No rusting will occur even if the tank is soaked in oil containing water and phosphoric acid and other chemicals for a long period of time.

- **Easy-to-use Reliable Engine Hood Spring and Securing Bar**
  The engine hood is installed with a spring that can help you open the engine hood easily for engine service. The hood can be secured with the bar during maintenance or service of the machine in order to prevent injury caused by wind.

- **Easy Cleaning of Radiator**
  Opening the left rear access door allows you to access the engine radiator. The radiator is protected with a net to prevent invasion of foreign substances. You are only required to remove and clean the net.

- **Longer Starter Motor Life**
  Add new protection function for start motor, decreased the faults of start motor, extended the working life and reduce the cost of maintenance.

- **Bottom Drain Plug**
  The radiator, fuel tank, hydraulic oil tank and oil pan are equipped with screw plugs at the bottom, which is convenient for discharging foreign substances and waste liquid out in the change of oil or cleaning.

- **Standard Engine Oil Drain Valve**
  The use of this valve can prevent contamination of your clothes and the floor when engine oil is changed.

- **Serially-arranged Cooling Units**
  Coolant radiator, oil radiator, intercooler and condenser are placed side by side for easy cleaning and maintenance.
EVI remote monitoring

EVI is the remote monitoring system for SANY C-9 Series excavators. When a hydraulic excavator is fitted with this system, data on the machine’s operation hours, location, fuel consumption, and maintenance status can be obtained remotely.

Newly developed short message function for customers, more convenient to know the running state of machine. Customer can exactly know well about when machine started and off, running information in the office through the internet & WAP. customer can find working location of the machine through GPS. According to the function of “Setting Area”, can raise the alarm through short message or internet.

Technical specification

**ENGINE**
- **Model**: Isuzu 6BG1-XABC-03-C2
- **Type**: 6 cylinder in-line Water Cooled
- **Rated Engine Power**: 174 HP (128.5 kW) @ 2100rpm
- **Max. Torque**: 679 N·m @ 1800 rpm
- **Battery**: 2 X 12 V
- **Displacement**: 6.49 L

**CONTROL SYSTEM**
- **Control System**: DOMCS Intelligent Controller
- **Control Hydraulic System**: Positive Flow
- **Working Modes**: H > L > B
- **Remote Monitoring System**: GPRS, GPS, GIS

**HYDRAULIC SYSTEM**
- **Main Pump**: 2 Variable Displacements Axial Pistion Pump
- **MCC Flow**: 2 X 240 lpm
- **Pilot Pump**: 1 Gear Pump
- **Travel Motor**: 2 Axial Pistion Motor with Parking Brake
- **Swing Motor**: 1 Axial Pistion Motor with Swing Holding Brake

**RELIEF VALVE SETTINGS**
- **Implement Circuit**: 34.3 Mpa
- **Swing Circuit**: 28 Mpa
- **Travel Circuit**: 34.3 Mpa
- **Pilot Circuit**: 3.9 Mpa

**UNDERCARRIAGE & WORKING DEVICE**
- **Track Shoes (each side)**: 49
- **Upper Rollers**: 2
- **Lower Rollers**: 9
- **Track Guard**: 2
- **Track Guard**: 2
- **Track Shoe Width**: 600 mm
- **Track Gauge**: 2380 mm
- **Min. Ground Clearance**: 440 mm
- **Rear-end Swing Radius**: 2890 mm
- **Max. Height at Min. Swing Radius**: 7940 mm
- **Max. Cutting Height**: 9640 mm
- **Max. Height at Min. Swing Radius**: 7940 mm
- **Max. Digging Reach**: 10150 mm
- **Max. Digging Depth**: 6785 mm
- **Max. Digging Reach**: 10150 mm
- **Max. Swing Radius**: 3800 mm
- **Max. Height at Min. Swing Radius**: 7940 mm

**SERVICE REPAIR CAPACITIES**
- **Hydraulic**: 201 L (Refill) 239 L (Tank)
- **Full Tank**: 342 L
- **Engine Oil**: 24.5 L
- **Swing Device**: 4 L
- **Travel Device**: 245 L

**CAB**
- **AC**: Std
- **Cabin Guard**: Opt.

**DIMENSION (Unit: mm)**
- **Arm 2500**: 9920
- **Arm 2500**: 9920
- **Overall Width**: 2980
- **Overall Height**: 3550 mm
- **Overall Height of Cab**: 2990
- **Std. Track Shoe Width**: 600 mm
- **Track Gauge**: 2380 mm
- **Min. Ground Clearance**: 440 mm
- **Rear-end Swing Radius**: 2890 mm
- **Distance between Tumbles**: 3640
- **Under Carriage Length**: 4445
- **Max. Cutting Height**: 9640 mm
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**BUCKET**
- **Capacity**: 1.4 m³ HD-Std.
- **Weight**: 1609 kg
- **Tooth**: 6
- **Arm Length**: 1.2 m

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Machine operating management

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Location & Tracking

Record the machine’s movements in different time, effectively prevent equipment theft, also monitoring operator’s bad operating behaviours.

Help customer for a better maintenance

Machine maintenance management: Equipment is brought into the plan maintenance job good. remind customer to complete the maintenance job good.

Service Bank

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**SY240C-9 LIFTING CAPACITY**

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<thead>
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<th>A</th>
<th>3.0m</th>
<th>4.5m</th>
<th>6.0m</th>
<th>7.5m</th>
<th>9.0m</th>
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**WEIGHTS AND GROUND PRESSURE**

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<th>Shoe type</th>
<th>Shoe width</th>
<th>Mode SY240C-9</th>
<th>Operating weight</th>
<th>Ground pressure</th>
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<tr>
<td>Tripe grouser</td>
<td>600mm</td>
<td>23600kg</td>
<td>47.8Kpa</td>
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**Standard & Optional**

**STANDARD EQUIPMENT**

- **Engine**
  - Engine Mode control (H, S, L, B)
  - Start motor 24V/4.5KW
  - Alternator 50A
  - Air pre-cleaner
  - Dry double-filtering air cleaner
  - Cylindrical engine oil filter
  - Engine oil cooler
  - Radiator with protective screen
  - Auxiliary water tank for radiator
  - Fan cover
  - Separately installed engine
  - Automatic idle speed system
  - Accelerating system

- **Hydraulic System**
  - Working mode selection switch
  - Power enhancement device
  - Control valve with main relief valve
  - Spare oil port for control valve
  - Oil suction filter
  - Oil return filter
  - Pilot filter

- **Operator Station**
  - Noiseproof steel-structured cab
  - Toughened light-color window
  - 6 silicone rubber damping support
  - Openable roof hatch, upper front window and left window
  - Rear window, alternate exit
  - Silent window wiper with washer
  - Adjustable inclined seat with adjustable armrest
  - AM-FM radio with digital clock
  - Foot rest and floor mat
  - Loudspeaker, rear view mirror
  - Seat belt and fire extinguisher
  - Cab holder and cab light
  - Ashtray alternate hammer
  - Storage box, literature bag
  - Hydraulic lockout control
  - Fully automatic air-conditioner
  - Cab visor

- **Front Work Equipment**
  - Flange pin
  - Bucket clearance adjustment
  - Welded lever
  - Central lubrication system
  - Dust ring-seal of bucket pin
  - 5.9 m fully-welded box boom
  - 2.5 m fully-welded box arm
  - 1.2 m³ HD standard bucket SY240C-9

- **Others**
  - Standard battery
  - Lockup engine hood
  - Lockup fuel filler cap
  - Anti-skid film, handhold and travel direction mark
  - Hand grease gun

- **Swing Platform**
  - Fuel level float
  - Hydraulic oil level gauge
  - Toolbox
  - Rear view mirror (R)
  - Swing brake

- **Undercarriage**
  - Engine
  - Working mode control (H, S, L, B)
  - Start motor 24V/4.5KW
  - Alternator 50A
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**Pressure and Capacities**

- Shoe type
  - Shoe width
  - Mode SY240C-9
  - Operating weight
  - Ground pressure

- Tripe grouser
  - 600mm
  - 23600kg
  - 47.8Kpa

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 figure with *stands for the rated figure of the limiting hydraulic weight.