

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



Material & specification are subject to change without prior notice in accordance with our continuous

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RAMIN HEM



Operating Weight: 36000 kg Bucket Capacity: 1.6 - 2m³ Engine Power: 284 HP (212 kW)/ 2000 rpm





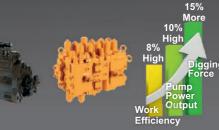
SY380C-10HD
HYDRAULIC EXCAVATOR

New powerful and fuel efficient engine

6% higher engine power & 20% higher engine torque

Improved Pilot Pressure Control Curve

New Gen-hydraulic System



- Kawasaki New Gen MCV & main hydraulic pump
- Electronically controlled Positive flow Hydraulic system

Improved PQ Curve

Power increasing control technology

New Ultra Silent & Dust Proof Cabin



Intelligent LCD

- Real time update on machine performance for peace of mind

New Informative & Colour Display

Attachment, travel & swing utilization hours

Super Easy Maintenance Management

- Advance Telematics System
- 30% more spacious hydraulic pump compartment
- 20% more spacious engine compartment

Super High Adaptability

- High corrosion-resistant coating
- Oil bath type air pre-cleaner
- Large-capacity multi-stage fuel filtration system
- Multi tool adaptability (breaker, shear, quick coupler etc.)

resistant prime



The overall pressure & flow loss is substantially reduced with New-Gen hydraulic aggregates, improved positive flow control curve, joysticks, optimized valve core structure & regenerating circuits.

Pressure & Flow Loss Reduction Technology

- Two Intermediate adjustment points are added to the positive flow control curve for more pilot pressure adjustment while moving the joysticks
- Adopted with Power-increasing control technology, the output power increases with the increase of main pressure

Quick

Dynamic & Intelligent Mode Control System

SANY

Max. Power for high output

Balanced power for high fuel efficiency

Optimized power for unmatched fuel efficiency

Rated power for fine controlled operation

Advanced "DOMCS" System independently developed by SANY and "Power Optimized mode control system" ensures mutual Engine & hydraulic pump power at optimum level under various working conditions

Big mining Power

High Speed High Power

otimized bucket hinge point for improved functioning scope of digging force area. With optimized moving trajectory machanism &special bucket shape, the impact & resistance against the machine are reduced while digging. Excavation speed improved & operating efficiency

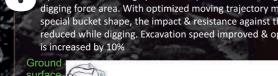


Three Dimensional Design Test System

Forged pivot ends

Forged pivot ends

- "NAS7" Industry best hydraulic system delivery cleanliness level
- The service life of Main Pump, MCV, Oil cylinder, Travel & Swing gearbox, fuel tank & cabin are doubled with Oil impulse test bed, endurance test bed, vibration test bed
- Comprehensive structural design system including CAE & FEM analysis, static/ dynamic impact test & fatigue test.





SANY SY380C-10HD excavator is specially designed for heavy duty operating conditions in Mine with combination of best in class productivity and superior fuel economy.

UNMATCHED PRODUCTIVITY

POWERFUL & FUEL EFFICIENT ENGINE

SY380C-10HD comes with maximum engine power of 284HP attained by powerful & proven branded Isuzu 7.8Liters electronic injection engine. High peak torque of 1080Nm ensures optimum performance in toughest jobsites of Granite & Marble applications

ADVANCED HYDRAULIC SYSTEM

The positive flow control hydraulic system with class leading digging forces make this machine capable to handle heavy blocks very effectively.

The new Generation Main Control Valve adopted for "low pressure loss, high flow distribution efficiency and smooth compound control action" It helps the Customers to "Earn More" with SANY SY380C-10HD.

Comes with New Generation "Duel-Ratio Positive- Flow" hydraulic main pump, takes full benefit of flow delivery as per the demand with reduced loss of neutral-position return and offers high response speed for more output.

Hydraulic Priority system & Regeneration system offers Higher Productivity with better fuel efficiency

HIGHER DIGGING FORCE

By optimizing the hinge point, the functioning scope of digging force becomes wider. By optimizing moving trajectory of the mechanism and bucket shape, the impact and resistance against the machine are reduced while excavation. Digging speed is improved and operating efficiency is improved by 10%. Overall life of the bucket is doubled.

SMOOTH CONTROLLABILITY

With special joystick control, optimized valve core structure, regenerating channel and added intelligent interflow control etc. The pressure loss is reduced, operation control is improved and the equipment can be operated smoothly.

SUPERIOR FUEL EFFICIENCY

DYNAMIC OPTIMIZATION MATCHING CONTROL SYSTEM (DOMCS)

SANY Engineered "DOMCS" ensures enhanced machine performance with higher fuel efficiency as per the external load demand by intelligent control on Engine and hydraulic pump power.

WORK MODES & AUTO IDLE

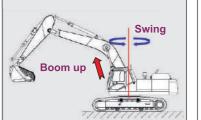
SY380C-10HD is equipped with user-friendly 4 power modes for high adaptability & optimum performance (Output & Fuel efficiency) in stringent applications.

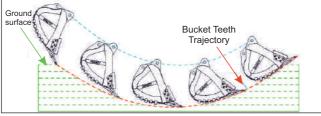
Two stage Auto Idle system reduces engine speed automatically in two-stages when machine is not at work, thus saving more fuel.



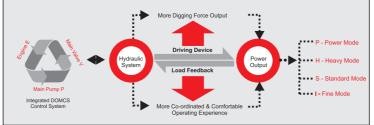


Powerful & Fuel efficient Engine





Big Mining Power





pecially designed wasaki 180CC dual positive-flow main pump adopted, compare to negative it reduces the loss of ral- position return & fers high response loeed with reduced power loss.

Specially designed cawasaki new-Gen MCV for Sany has outstanding advantages on high eliability, low pressure loss, high flow distribution efficiency & smooth compound control action



Boom Priority System & Hydraulic Regeneration System

Advanced Integrated DOMCS Control System

High Efficient Hydraulic System



SUPERIOR RELIABILITY

The service life of key structural members like Boom, Arm, Upper structure & Lower structure are doubled with advanced world-class design & testing system. The most advanced international design & testing method including Optimization design, stress test, research of welds & plates, endurance test, 100% UT detection & fatigue test provides excellent service life of key structural members.

ROBUST STRUCTURE

HEAVY DUTY BOOM & ARM

Robotically welded, Heavy Duty boom & Arm is designed for best distribution of load through-out the boom structure which reduces lateral stress and ensures long service life. Forged pivot ends with thicker steel plates provide enhanced durability.

WEAR RESISTANT BUCKET

High strength wear resistant steel plates are used for manufacturing the Bucket. Motion tail of bucket bottom is optimized and with special design, the digging resistance is also reduced. The wear resistance property is improved by 2 times.

HEAVY DUTY UPPER FRAME & LOWER FRAME

Heavy Duty upper frame & Lower frame offering with SY380C-10HD made by advanced world class design & testing techniques, provide excellent strength & Durability while handling bigger blocks. D-Shaped large section stronger beam with Side skirt protects the structure from external impact.

ENHANCED TRACK PERFORMANCE

Specially designed Heavy Duty track chain assembly is adopted to provide higher service life while working in toughest & abrasive underfoot conditions.

Anti-collision ribs added to eliminate the chances of track frame deformation while handling with heavy Granite & Marble blocks.

ADVANCED WORLD-CLASS TESTING METHODS FOR CORE PARTS

SANY'S Joint research with world famous research institutions on service life of major aggregates, special design & technologies are adopted for improving the life of SY380C-10HD core parts. The service life of components including main pump, Main control valve, swing & travel motors, fuel tank & cab etc. is doubled.

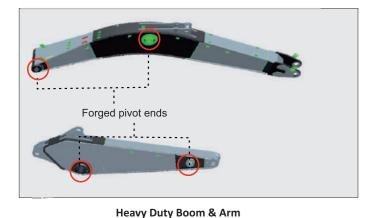
INDEPENDENT OIL COOLER & RADIATOR SYSTEM

The cooling efficiency of both the Engine & hydraulics are improved by adopting 10% higher capacity of radiator and 5% higher capacity of oil cooler. The equipment will be always working under normal operating temperature, adaptability to high-temperature environment is greatly enhanced, the service life of rubber parts is prolonged and the energy consumption is reduced

HIGH CORROSION-RESISTANT COATING

With new corrosion-resistant coating system, service life of the paint under tough working environment is improved by 50%. Enhanced resale value.

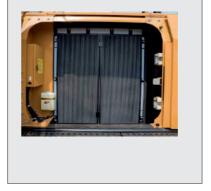


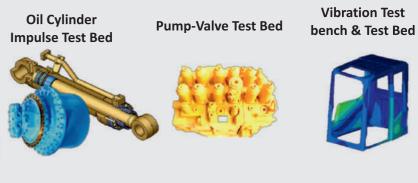




All Side Protected Robust Bucket







Heavy Duty Under Carriage High Capacity Oil C

High Capacity Oil Cooler & Radiator Advanced world class testing methods



SUPERIOR OPERATOR COMFORT & SAFETY

SY380C-10HD comes with specially designed cab for toughest working environment. FOPS/ROPS featured cab with newly developed dust control & noise reduction technology are used so that the safety is improved by 5times as compared with general cab.

COMFORT

MULTI-DUCT, HIGH CAPACITY, FULLY AUTOMATIC AC SYSTEM

The large capacity multi-duct air conditioning system keeps in-cab air fresh. The cooling and heating effect can be achieved quickly results operating the machine more comfortable for longer hours.

EARGANOMICALLY DESIGNED OPERATOR SEAT & JOYSTICK

Suspension seat with multi adjustments are adopted for more comfort. Thin & long joysticks are smartly designed for smooth operational control.

ULTRA-SILENT FOPS / ROPS CAB WITH PROTECTIVE GUARDS

SY380C-9HD comes with safe cab, and through Finite Element Model analysis the steel structure and sealing property of cab are optimized.

CLEAR VISIBILITY

Larger windows of the newly-designed spacious cabin 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. Rear view camera offering as an option.

USER-FRIENDLY INFORMATIVE & INTELLIGENT DISPLAY

SY380C-10HD comes with 10-series informative intelligent display. The large 7" LCD Colour Display acts as a centralized machine performance monitoring device with lots of information's like, Mode selection, Swing & Travel utilization, self-diagnostics, Operating parameters monitoring, Maintenance details and many more. Helps the operator to work efficiently.

SUN VISOR

Sun visor offering as standard for working comfortably in sunny atmosphere.

ADVANCED SILICON OIL RUBBER SHOCK ABSORBERS

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

OTHER SAFETY PROVISIONS

Emergency stop switch, Battery cut-off switch, Seat belt, fire extinguisher, pilot controlled cut-off lever & various warning alerts are adopted with SY380C-9HD to work more safely in toughest working conditions.





Multi Duct Fully Automatic AC



Silicon Oil Ruber Damper



Multi Angle adjustable Suspension Seat



Low Effort Joystick



Ultra Silent Cab With Guards



Emergency Stop Switch



High Intensity LED Working Lights Rear View Camera (Opt)



Sun Visor



Safety Hammer & Fire Extinguisher



SUPERIOR EASE OF SERVICEABILITY

In allusion severe working conditions of this segment, the design of maintenance convenience of the machine is improved. "More Spacious, Easy to Operate" fundamentals are applied. Maintenance space for key compartment is increased by 20-30%, makes the maintenance easy resulted high uptime.

EASY ACCESS

EASY ACCESS TO KEY MAINTENANCE COMPONENTS

Engine compartment volume is increased by 20%. The space for replacing external air filter element is 30% larger than general excavator and the filter element can be replaced without the help of any special tool. The pump compartment volume is increased by 30% and maintenance space for filter element replacement is increased by 20%

OIL BATH TYPE AIR FILTER

Extremely high dust filtration efficiency design to dealt with highly dusty environment

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.

ELECTRICAL FUEL FEED PUMP (Opt)

Fuel feeding pump is provided for easy fuel refilling.

7" LCD DISPLAY (Intelligent & Informative)

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.

Swing, Travel & attachment utilisation can be monitor through display for better maintenance planning

IMPROVED GREASING

Graphite infused bushes are provided for prolonged greasing interval. Centralized greasing points are provided for easy greasing of various points of boom assembly.

FLOATING BUSH PROVISION

Floating bush and shim arrangement are provided in bucket for easy and quick adjustment. All bucket pins are equipped with dust proof seal ring for better pin & bush life

CENTRALIZED FILTER ACCESSIBILITY

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





Wire Mesh Protected
Air Filter



Desert - Type Air Filter



Independent ROC with Wire Mesh Guard



Centralized 3 Stage Fuel Filtration System



Electrical Fuel Feed Pump (Opt)



Engine Oil Level Check-up Access



7" Informative & Intelligent Display



Graphite Bush



Centralized Greasing Points

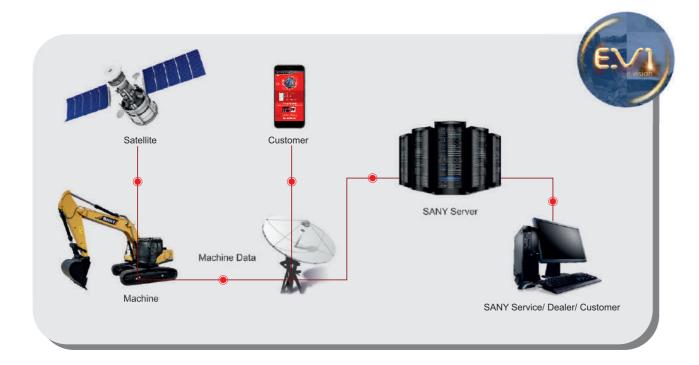


Floating Bush Provision
Dust Proof Sealing



EVI REMOTE MONITORING

EVI in SANY C-10 series excavator is a sophisticated system that helps you to remotely monitor wide range of excavator functions and access operating information





REAL TIME NEWS UPDATES

Keep the customers always updated on Sany special offers, product upgrades & new product launches timely which help them to take right decision for maximum savings.



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.

Dealer network also can be tracked through EVI app for quick contact if required

TECHNICAL SPECIFICATIONS

ENGINE	
Model	Isuzu GH-6HK1XKSC
Туре	Electronic Injection, 6 Cylinder, four Stroke,
	Turbo charged, Inter Cooling & Water cooled
Rated Engine Power	284HP (212 kW)/ 2000rpm
Max. Torque	1080Nm@ 1500rpm
Batteries	2 X 12 V
Displacement	7.79 L

CONTROL SYSTEM	
Control System	Advanced DOMCS Intelligent Controller
Control Hydraulic System	Positive Flow
Working Modes	4 Power Bands
Remote Monitoring System	GPRS GPS GIS

HYDRAULIC SYSTEM	
Main Pumps	2 Variable Displacement Axial Piston Pumps
Max. Flow	2 X 320
Pilot Pump	1 Gear Pump
Travel Motor	2 Axial Piston Motor with
	Parking Brake
Swing Motor	1 Axial Piston Motor with
-	Swing Holding Brake

RELIEF VALVE SETTINGS	; // /	
Implement Circuit	34.3 Mpa	
Swing Circuit	26 Mpa	Т
Travel Circuit	34.3 Mpa	Т
Pilot Circuit	3.9 Mpa	

UNDERCARRIAGE & WOR	KING DEVICE	
Track Shoes (Each Side)	49	
Upper Roller (Each Side)	2	
Lower Roller (Each Side)	9	
Track Guard (Each Side)	3	
Std. Track	600 mm	
Std. Boom	6500 mm	
Std. Arm	2900 mm	
Std. Bucket	1.6 m³ HD	

Max.Travel Speed(High/Low)	5.5/ 3.5 km/h
Swing Speed	9.5 rpm
Grade ability	70% / 35
Ground Pressure	65 kPa
Max. Tracking Force	320 kN
Bucket Digging Force	235 kN
Arm Digging Force	180 kN

PERFORMANCE

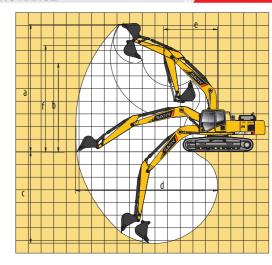
SERVICE REFILL CAPACITIES					
Hydraulic Tank	380 L (Tank)				
Fuel Tank	690 L				
Engine Oil	36 L				
Swing Device	10.5 L				
Travel Device	2 X 8.5 L				

Havel Device	2 A 0.5 L	
CAB		
Fully Automatic AC	Std.	
FOPS / ROPS Cab	Std.	
Fully Automatic AC		

DIMENSION (Unit: mm)

-		
DIMENSION (Unit: mm)	Arm 2900	
a. Overall Length	11530	
3. Overall Width	3190	
C. Overall Height	3545	
). Upper Width	3150	
. Overall Height of Cab	3320	
Std. Track Shoe Width	600	
G. Track Gauge	2590	
I. Min. Ground Clearance	550	
Rear-end Swing Radius	3560	
. Distance between Tumbles	4140	
C. Under Carriage Length	5065	

WORKING RANGE

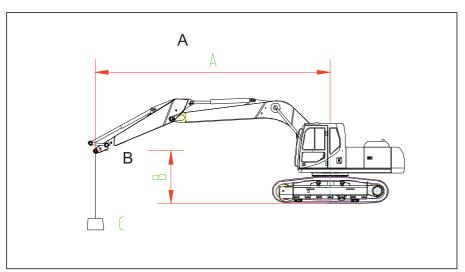


WORKING RANGE (Unit: mm)	Arm 2900	
a. Max. Cutting Height	9890	
o. Max. Dumping Height	6920	
c. Max. Digging Depth	7050	
d. Max. Digging Reach	10780	
e. Min. Swing Radius	4495	
Max. Height at Min. Swing Radius	8600	

BUCKET

Capacity	Arm Length				
	2.9m	3.2m			
1.6 m³ Rock-Std.	✓	✓			
1.8 m³ GP- Opt.	✓	✓			
2.0 m³ GP- Opt.	✓	✓			

LIFTING CAPACITY





Rating Over Front



Rating Over Side

Boom	6500mm		Arm	2900mm		Width of track	600mm				
		3	.0m	4.	.5m	6.0	0m	7.	5m	9.0	0m
		Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal	Transverse
		Ġ	(Ġ	(Ġ	(Ů	(1 •	Ġ	(
7.5m	Kg										
6.0m	Kg							*7857	*7857		
4.5m	Kg			*12146	*12146	*9592	*9592	*8269	6856		
3.0m	Kg			*14650	*14650	*10745	9126	*8823	6638	*7696	5095
1.5m	Kg			*16054	13197	*11633	8745	*9287	6434	*7819	500
Ground	Kg			*16022	12950	*11951	8515	*9457	6293		
-1.5m	Kg	*14577	*14577	*15082	12942	*11590	8439	*9137	6242		
-3.0m	Kg	*16715	*16715	*13312	*13312	*10420	8499	*7924	6314		

- 1. The lifting capacity is calculated in accordance with ISO10560 and SAEJ1097, where limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;
- 2. The item with the mark * is limited by hydraulic pressure and the item without the mark "*" is limited by stability;
- 3. Lifting point is front support hole of bucket rod (excluding the weight of bucket). It is necessary to deduct from the above lifting capacity if additional accessory is installed such as bucket etc.;

PRESSURE AND CAPACITIES

WEIGHTS AND GROUND PRESSURE

Shoe type	Shoe width	SY380C-10HD	
		Operating weight	Ground pressure
Triple grouser	600mm	36000kg	65kPa

STANDARD EQUIPMENT

ENGINE

Mode control (P, H, S and I) Start motor 24V/7.5KW

Alternator 70A

Air pre-cleaner

Oil bath air filter

Cylindrical engine oil filter

Cylindrical fuel filter

Engine oil cooler

Separate water scattered

Fan windshield

Separately installed engine

Automatic deceleration system

Accelerating system

UNDERCARRIAGE

X type frame

Travel motor guard

Hydraulic track tensioner

Fully protective track guard

Carrier roller and track roller

Reinforced track link with pin and seal

600 mm track shoes

SWING PLATFORM

Fuel level float

Hydraulic oil level gauge

Toolbox

Rear view mirror (R)

Swing brake

Reinforced side pedal Bottom cover plate

Mine side beams

Bottom cover

Fuel break switch

AIR CONDITIONING SYSTEM

Air conditioner (imported)

Air conditioner control panel

Fresh air system

HYDRAULIC SYSTEM

Working mode selection switch

Power enhancement device

Control valve with main relief valve

Spare oil port for control valve

Strainer

Return oil filter

Pilot filter

FRONT WORK EQUIPMENT

Flange pin

Bucket clearance adjustment

Central lubrication system

Dust ring-seal of bucket pin

Fully-welded box boom

Fully-welded box arm

Guard

Standard bucket

ALARM LIGHTS

Oil pressure alarm

Engine overheating alarm

Fuel oil alarm

LAMP & CIRCUITE SWITCH

Boom working lights Platform pedal lights Top of cab lights

Emergency stop switch

OPERATOR STATION

Noise proof steel-structured cab

Toughened light-color window

Silicone rubber damping support

Operable roof hatch, upper front

window and left window

Rear window,alternate exit

Silent window wiper with washer

Adjustable inclined seat with

AM-FM radio with digital clock

Foot rest and floor mat

adjustable armrest

Loudspeaker,rear view mirror

Seat belt and fire extinguisher

Cub holder and cab light
Ashtray alternate hammer

Storage box, literature bag

Hydraulic lockout control

Fully automatic air-conditioner

Wiper with washer

OTHERS

Standard battery

Lockup engine hood

Lockup fuel filler cap

Anti-skid film, handhold and passage

Travel direction mark

Hand grease gun

Electric diesel pump