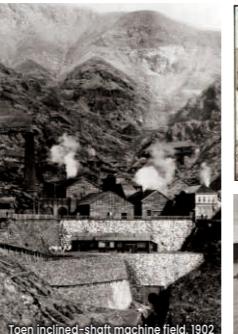


SUMITOMO

SH360LC-7 SH380LHD-7

What is SUMITOMO?

The SUMITOMO Group traces its origins to the copper ore mining and smelting business established 430 years ago during the Edo period when Japan was ruled by the Samurai. Over the centuries, it has evolved into a multi-industry group, with diverse divisions offering various opportunities for skilled craftsmen and craftswomen.



Besshi Copper Mine, 1881

Toen inclined-shaft machine field, 1902

Shisakajima Smelter & Refinery



SUMITOMO Construction Machinery, a proud member of the SUMITOMO Group with over 400 years of history, entered the construction equipment industry nearly half a century ago.

1964 LS78

In 1963, SUMITOMO partnered with Link-Belt, a prominent American construction equipment company, to enter the hydraulic excavator manufacturing sector.



SUMITOMO CONSTRUCTION MACHINERY CO., LTD.

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We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
Illustrations may include optional equipment and accessories and may not include all standard equipment.



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Advances Abound. Innovation Infinite.

The DASH 7 series from Sumitomo has been developed to exceed its own capabilities in every regard, with performance benchmarks that will stand the test of time and innovation to tackle any job.

Created for more seamless operations in an extensive range of worksite surroundings, both businesses and operators will come to treasure the performance the Sumitomo excavator is capable of providing. Unleash the potential on your worksite with capabilities never before seen.



Advanced Energy Efficiency and Eco-friendly Operation

The combination of the advanced clean engine "SPACE 5 α" and SUMITOMO's proprietary hydraulic system "SIH:S α" achieves much higher operating efficiency and superior fuel economy. These features also mean the excavator is even easier on the environment and worksites.

Faster Operations and Excellent Fuel Economy!



= **7%*** less fuel consumption

* Comparison of fuel consumption with same workload (SH380LHD-7 SP mode compared against SH370LHD-6 SP mode)

The level of reduction may be less than shown above depending on actual job type.



Meets EU Stage V standards

The clean engine "SPACE 5 α" achieves significant reductions in exhaust gas emissions, meeting European Stage V non-road emission standards (EU Stage V), deemed the toughest emissions standards in the world. The SH380LHD-7 series excavator has been designed to be even more environmentally friendly.

NOx: 90% reduction
PM: 92% reduction

(compared to SH370LHD-6)

Clean and Fuel-efficient Engine "SPACE 5 α"

The SH380LHD-7 is powered by a new engine designed for significantly improved combustion efficiency and much lower fuel consumption. In addition to a common rail fuel injection system designed for optimum fuel injection, a cooled EGR and VG turbocharger help to achieve cleaner exhaust gas emissions as well as superior power and response.

Exhaust After Treatment System (ATS)

An advanced exhaust after treatment system has been used, featuring a combination of a ceramic filter and SCR. The pre-stage ceramic filter removes PM through collection and combustion, while the post-stage SCR injects AdBlue® (urea water) into the exhaust gas, cleaning the NOx into harmless nitrogen and water through chemical reaction. Post treatment of NOx allows for high-efficiency combustion at the engine, achieving superior clean running as well as powerful and low fuel consumption operation.

AdBlue® is a registered trademark of the German Association of the Automotive Industry.

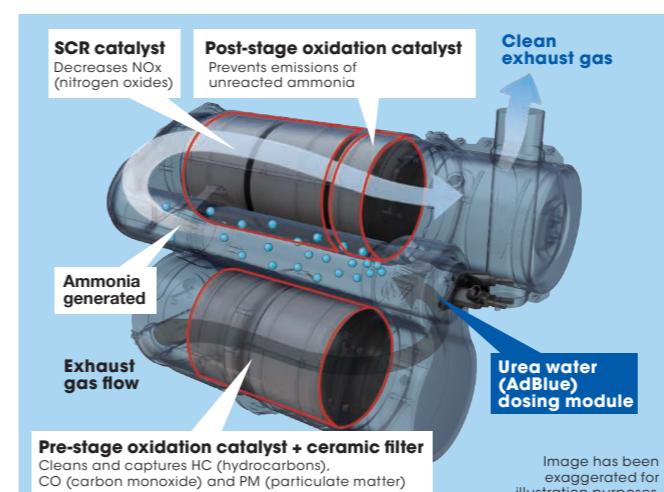


Image has been exaggerated for illustration purposes.

SCR System Design
The SCR system comprises an oxidation catalyst, SCR catalyst and urea water dosing module. The urea water is injected into the exhaust gas, where the NOx is reduced by the SCR catalyst and ammonia generated from the urea water and broken down into harmless nitrogen and water, resulting in clean exhaust gases.

SCR: Selective Catalytic Reduction

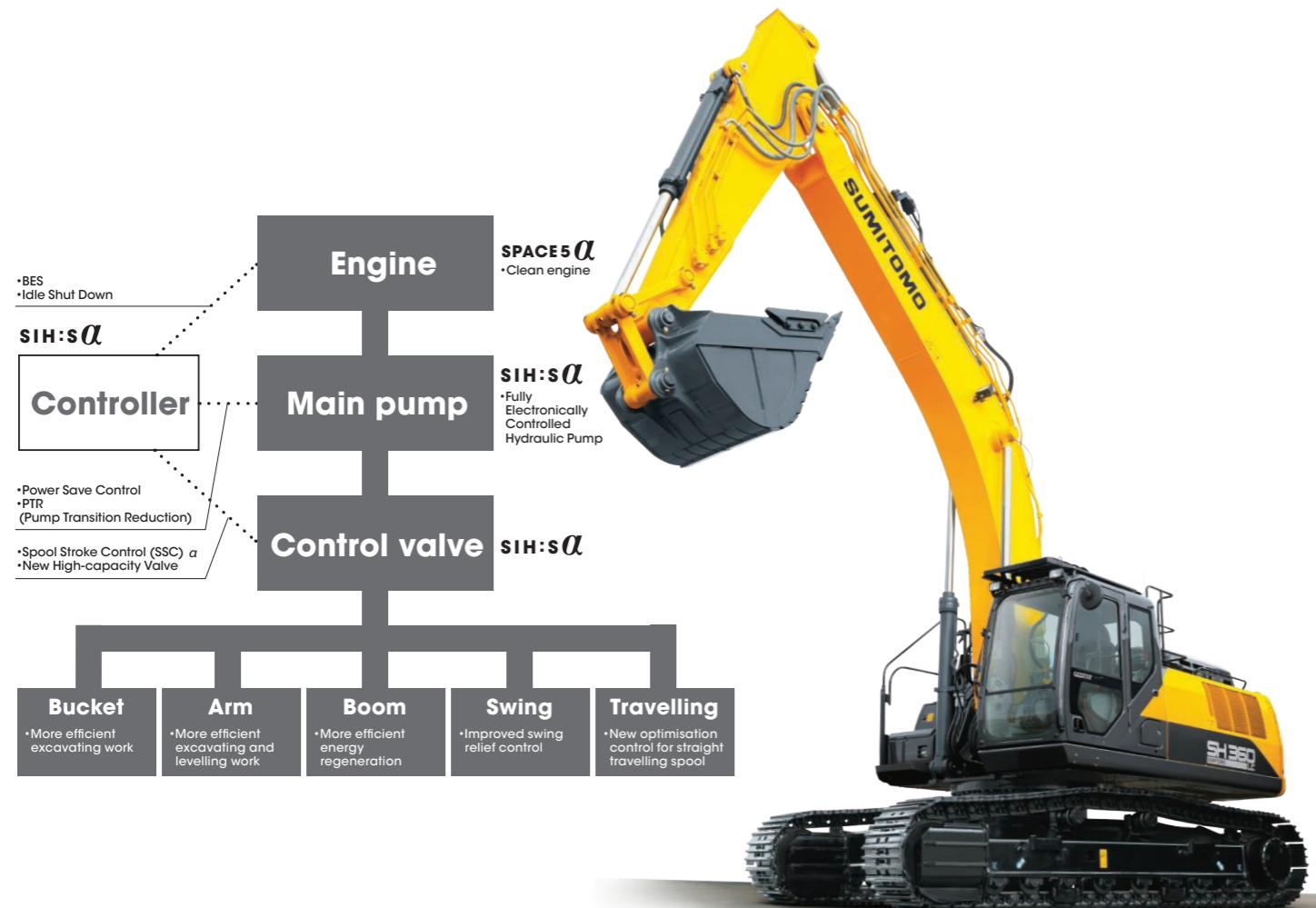


Advanced Energy Efficiency and Eco-friendly Operation

Innovative Hydraulic System "SIH:S α"

An innovative hydraulic system has been used to reduce fuel consumption, while a fully electronically controlled hydraulic pump ensures precision flow control.

Further enhancements have also been made to SUMITOMO's proprietary Spool Stroke Control for optimum hydraulic control to suit job conditions, thus achieving even more efficient operations and significantly lower fuel consumption.



Three Working Modes for Economic Operation or Work Efficiency SUMITOMO UNIQUE DESIGN

Three working modes are available: SP (Super Power) for faster operations, H (Heavy) for heavy duty applications, and A (Auto) for fuel efficiency across a wide range of operations. Six levels are shown for A mode, making it easier to select the right mode for any jobsite.



Integrated Throttle Mode Selector

The throttle mode can be selected by simply turning the knob, so anyone can easily choose the optimum working mode.

SUMITOMO Technology for Fuel Efficiency

• Spool Stroke Control (SSC) α SUMITOMO UNIQUE DESIGN

Automatically adjusts hydraulic pressure to save fuel. Better precision for identifying operating conditions and greater range of control help to reduce fuel consumption and increase operating efficiency even further.

• Fully Electronically Controlled Hydraulic Pump

Designed with ultra-sensitive hydraulic pressure sensing technology for precision flow rate control to suit any type of job. These help to achieve speed, enhance operations and reduce fuel consumption.

• Power Save Control SUMITOMO UNIQUE DESIGN

Reduces the flow rate of the main pump when the machine is not in operation, which cuts down unnecessary fuel consumption.

• BES (Boom-down Energy Save) SUMITOMO UNIQUE DESIGN

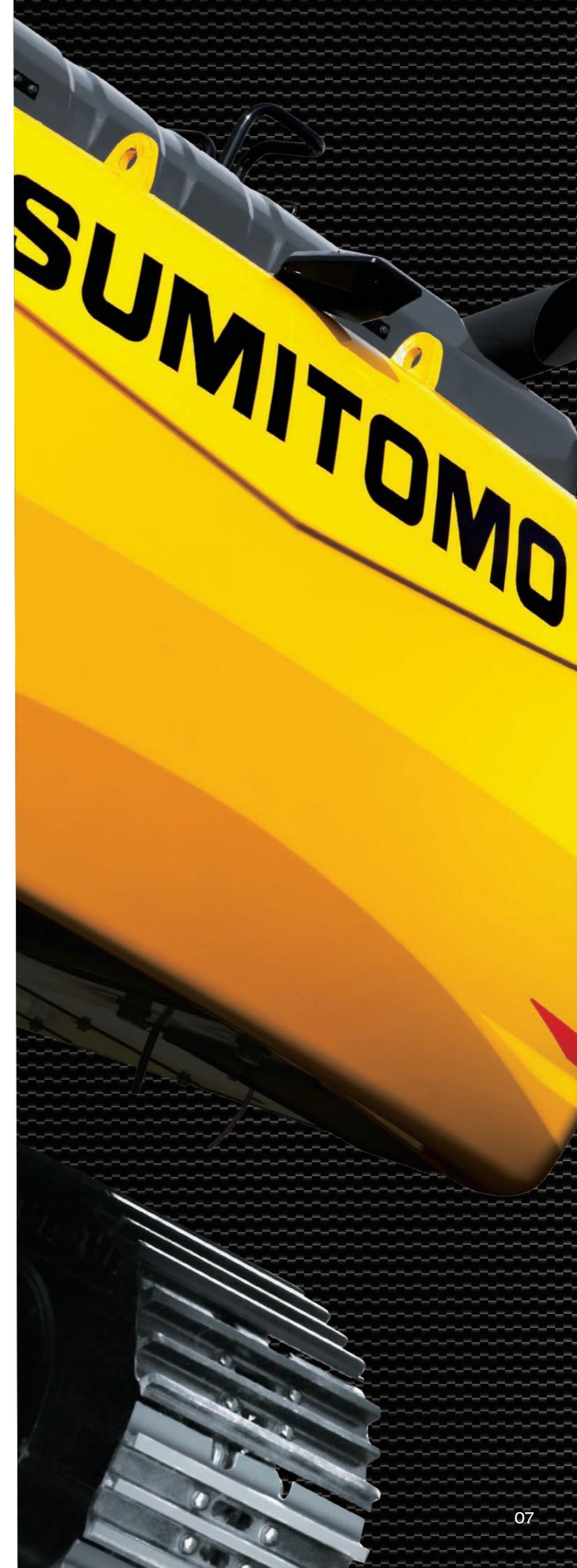
Increases fuel efficiency during boom-down operation.

• PTR (Pump Transition Reduction) SUMITOMO UNIQUE DESIGN

Decreases main pump loads to reduce fuel consumption.

• Idle Shut Down & Auto Idle

Detects when the machine is not in operation, and automatically stops the engine from idling. Also equipped with Auto Idle, which automatically switches the engine to idle when the operation levers are in neutral position.



Superb Working Efficiency

SUMITOMO
UNIQUE DESIGN

Spool Stroke Control (SSC)  ensures a precise, optimum level of flow control to suit working conditions. The machine's speed, power and handling are exactly as the operator intends, which helps to boost working efficiency. The SSC range has been expanded, with better precision for identifying types of operation—the result is both greater energy efficiency and much smoother operation.

New High-capacity Control Valve

The valve structure has been improved to significantly reduce pressure loss within internal circuits. Hydraulic oil from the pump is distributed and pumped to actuators efficiently, drastically increasing work speed for both single and combined operations.

Outstanding Operating Speed and Handling

The speed of excavating and filling dump trucks is on an equivalent level to the current SH370LHD-6. The system prioritises controls when work calls for careful handling, thus achieving both high volume and delicate operations.

Easier Filling Dump Trucks

Filling trucks is easier through the combination of SUMITOMO's proprietary technology* and more powerful boom raising when swinging. This mixes surplus hydraulic pressure when lowering the boom with the arm opening circuit, to empty buckets and excavate soil significantly faster. This makes filling dump trucks much smoother and quicker.

* Boom-down Energy Save boosts the arm opening circuit

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Advanced Operator Comfort

A comfortable cabin has been designed to reduce operator fatigue, with the aim of relieving stress during work and ensuring greater relaxation during downtime.

With features such as a spacious cabin interior, new high-definition monitor with smartphone-like usability, new air suspension seat, and unbelievably quiet operation, the cabin is both comfortable and intuitive to ensure a greater level of safety.

Spacious, Class-leading Cabin

Just like previous models, the cabin has been designed with features that are top of its class, all of which help to ensure a comfortable and stress-free space for the operator. Superior sound insulation throughout the cabin translates to top-class levels of silence within.

Console-linked Arm Rest SUMITOMO UNIQUE DESIGN

The arm rest is linked with movement of the tilting console. The distance between the arm rest and operations levers remains the same, regardless of the angle of the console, leading to a greater level of comfort and control.



New Air Suspension Seat

The operator's seat features air suspension as standard for outstanding ride comfort. A new high-performance reclining seat with higher seatback has been used to ensure premium comfort. A multitude of seat adjustments and ample seat cushion width all help to significantly lower operator fatigue. The high water-repellent seat material is also easier to keep clean.



Premium Comfort with Seat Heater (OPTION)

A seat heater function is now available as an optional extra for even greater comfort in cold seasons or working early mornings. A convenient seat tilting function has also been added that allows the seat cushion to be tilted forward or back to suit the operator's body type or particular job-now anyone can achieve the optimum seating posture for more comfortable control.



New Monitor-Even More Intuitive and User-friendly

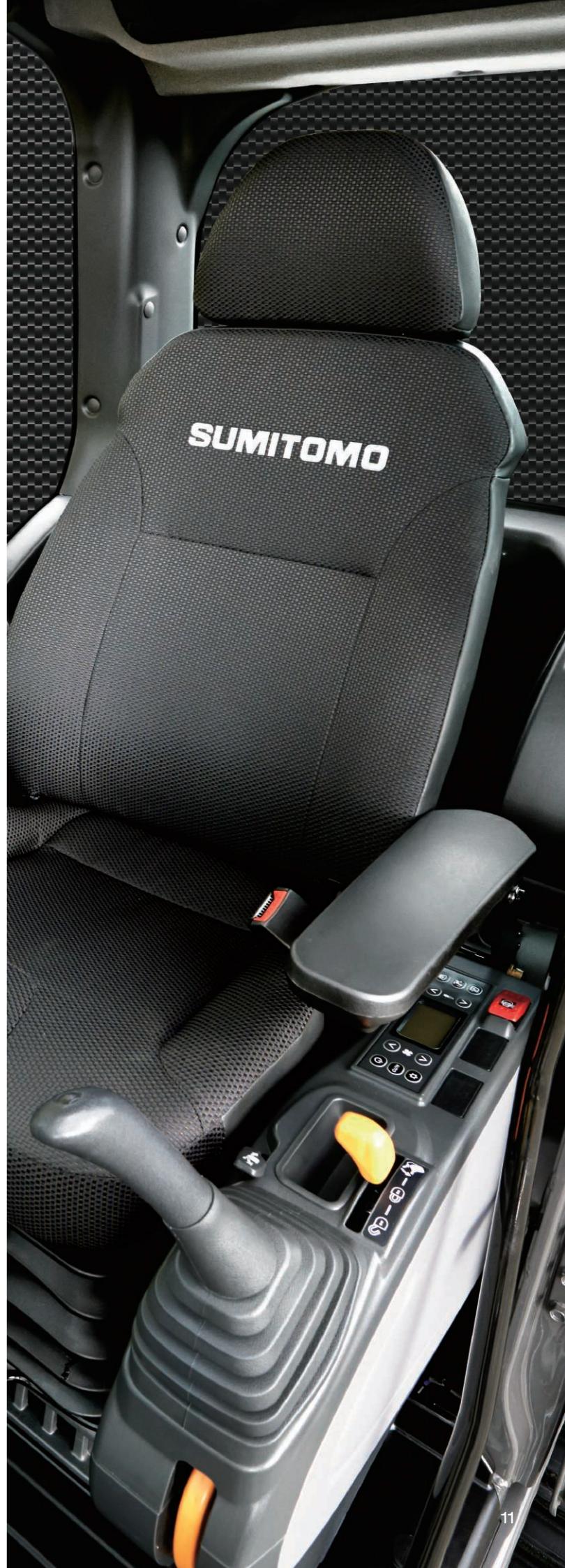
A wide range of excavator operating and maintenance information, warnings and other data are displayed as text messages. Providing a way to view accurate and easy-to-understand information helps to boost operating efficiency and safety.



Illustrations of New Monitor Displays



Equipment for Comfort and Safety



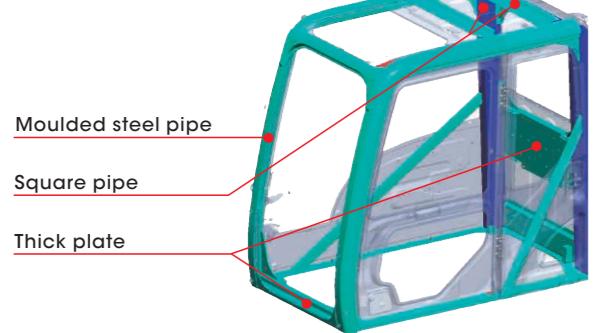
Sophisticated Safety Features

The cabin provides excellent driving visibility, and features a high-strength design to better protect the operator. Every aspect has been designed for day-to-day safety, including excellent access in and out of the cabin, and steps and handrails to make inspections and maintenance easier. The use of rear and right side cameras also helps to ensure operations remain safe.

Safe ROPS-compliant Cabin

A high-strength cabin design means operators are even better protected.

ROPS: Roll-Over Protective Structure

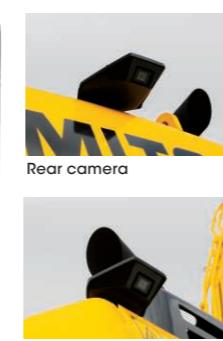


Rear and Right Side Cameras

Two cameras are installed as standard-rear view and on the right side-so the operator can check for safety behind the excavator. Optimally positioned mirrors and the use of cameras ensure that mirror visibility meets ISO standards, thus making it easier for the operator to check for safety in any desired direction.



Monitor videos



Right side camera



Wide View for Excellent Site Safety

In addition to the front of the excavator, the cabin design gives the operator a wide, unrestricted view to check upper and lower areas. Direct visibility for the operator means work can be performed safer.

Handrails, Non-slip Plates and Top Light for Operator Safety



Handrails



Non-slip plates



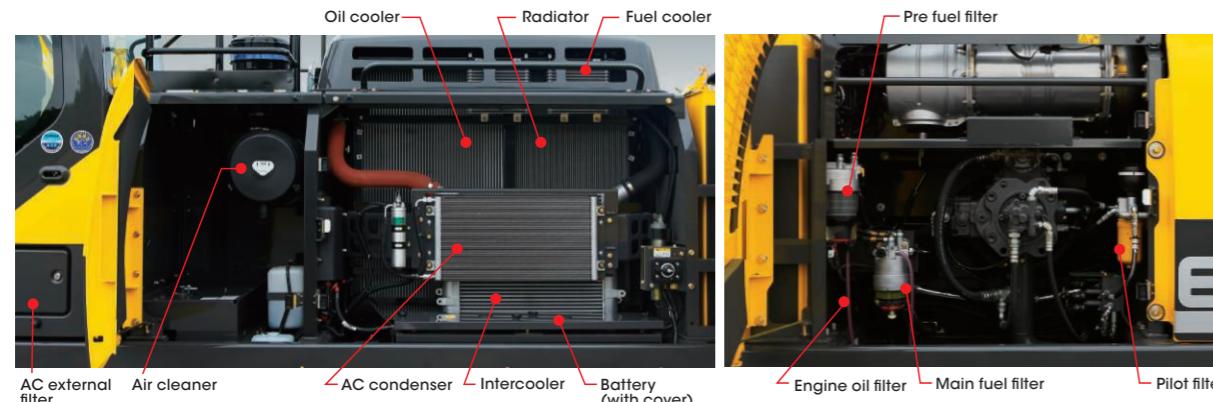
LED cabin top light (OPTION)

Superior Ease-of-maintenance and Durability

Easy maintenance and durability are the key to excavators that are called upon for ongoing work at job sites. With enhanced durability at every corner and proprietary EMS, outstanding reliability is standard with SUMITOMO excavators—they are designed to be easy to operate and maintain for customers, including features like ground level access and refilling AdBlue®.

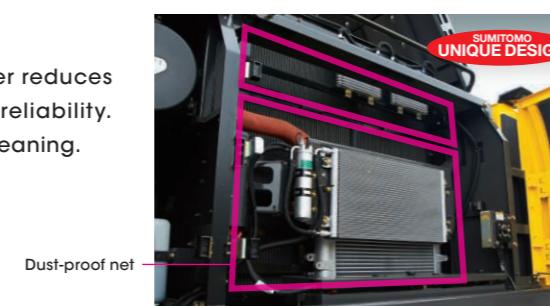
Ground Level Access for Easy Inspections and Maintenance

Components requiring inspection are all in a central location, meaning inspections and refilling can be performed without having to climb up onto the excavator.



Dust-proof Net for Enhanced Maintenance

A dust-proof net mounted in front of the radiator and cooler reduces the amount of dust adhesion, leading to a higher level of reliability. The dust-proof net can be removed from the front for easy cleaning.



High-Performance Return Filter

A long hydraulic oil change interval of 5,000 hours, and the use of a high-performance return filter ensures superior ease-of-maintenance.

Hydraulic oil change: **5,000** hours
Filter life: **2,000** hours

* The oil and filter change intervals vary depending on operating conditions.



Easy-to-fill Urea Tank

The urea tank has been positioned near the front right for easy refilling, to suit the way the excavator is used. In addition to easily refilling water by climbing up on the side frame, water can also be refilled by placing the AdBlue® container in front of the tank.

Urea Tank Capacity: **152 L**
Refilling frequency: **Once per 8 refuellings**



EMS for Enhanced Maintenance of Joints

SUMITOMO's EMS (Easy Maintenance System) has been used to ensure the excavator is always at the forefront of any work site. Special bushes keep joints lubricated and prevent rattling, and help give parts like bushes and pins a longer operating life.

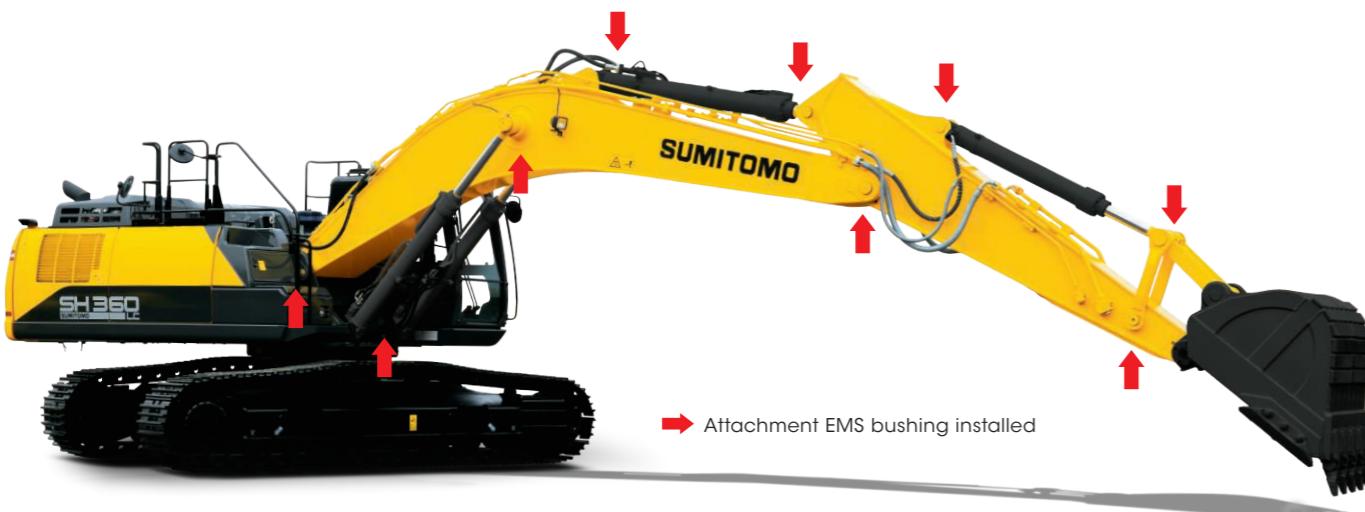
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Greasing interval for other sections: 1,000 hours

* The greasing interval varies depending on operating conditions.



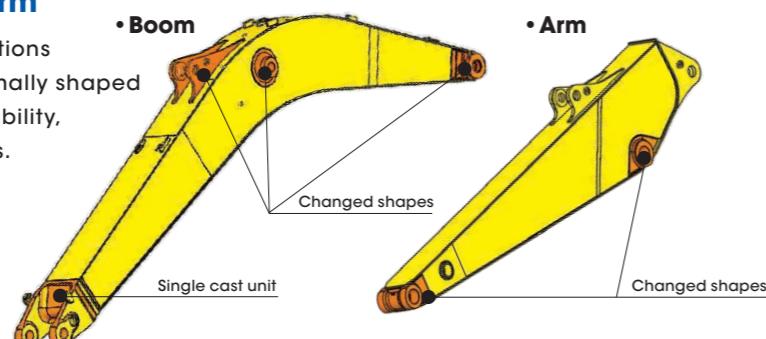
Attachment EMS bushing with self-lubricating capability



Attachment EMS bushing installed

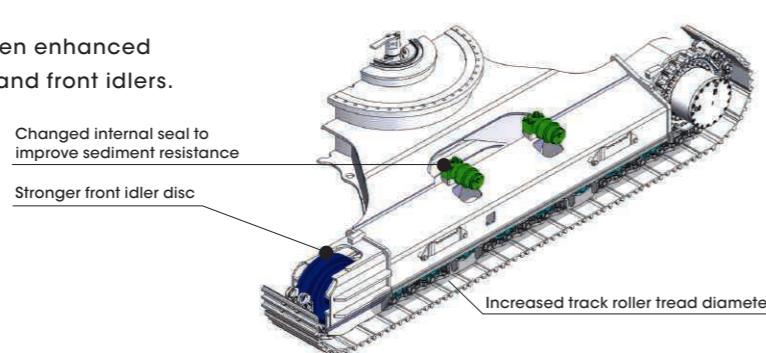
Higher Rigidity Boom and Arm

The boom and arm essential for operations feature a heavy-duty design and optimally shaped structure for greater strength and durability, as well as enhanced reliability of joints.



Enhanced Undercarriage for Greater Durability and Easier Maintenance

Durability of the undercarriage has been enhanced with improvements to the track rollers and front idlers. Better interior sealing also increases sediment resistance.



Note: The number of track guards may differ to the actual machine.

Heavy Duty Specifications SH380LHD-7

"Heavy Duty (HD) specifications" designed for harsh worksites. Tough, rigid body and dependable power bring out the machine's full potential.



SH380LHD-7 exclusive accessories



Front Guard & Head Guard (OPTION)
A front guard and head guard is available to protect the cab from falling rocks or debris.



Arm Lock Guard
A lower guard mounted at the arm tip protects against denting when carrying rocks.



High-durability Bucket
A high-durability bucket is installed as standard for the HD spec machine, providing added reliability on tough worksites.



Side Deck Guard
Guards mounted on both side decks of the machine protect against collisions or shocks.



Full Track Guard
A full track guard along the lower undercarriage prevents shoes riding off, and also helps to protect the rollers.

Specifications

SH360LC/380LHD-7 Technical Data

The electronic-controlled engine of SPACE 5 α and SIH:S α with new hydraulic system includes: three working modes (SP, H and A), one-touch/automatic idling system, automatic power-boost, speed assistance system, power-swing system.

Engine

	SH360LC/380LHD-7
Model	ISUZU VE-6HK1X
Type	Water-cooled, 4-cycle diesel, 4-cylinder in line, high pressure common rail system (electric control), turbocharger with air cooled intercooler, ATS
Rated output	200 kW at 1,900 min ⁻¹
Maximum torque	988 N·m at 1,500 min ⁻¹
Piston displacement	7.79 ltr (7,790 cc)
Bore and stroke	115 mm x 125 mm
Starting system	24 V electric motor starting
Alternator	24 V, 90 A
Air filter	Double element

Hydraulic pumps

Two variable displacement axial piston pumps provide power for boom/arm/bucket, swing, and travel. One gear pump for pilot controls.

	SH360LC/380LHD-7
Maximum oil flow	2 x 300 ltr/min
Pilot pump max. oil flow	28.5 ltr/min

Hydraulic motors

Two variable displacement axial piston pumps provide power for boom/arm/bucket, swing, and travel. One gear pump for pilot controls.

Working circuit pressure

Boom/arm/bucket 34.3 MPa
 Boom/arm/bucket 37.3 MPa with auto power-up
 Swing circuit 30.4 MPa
 Travel circuit 34.3 MPa

Control valve

With boom/arm holding valve
 One 4-spool valve for right track travel, bucket, boom and arm acceleration
 One 5-spool valve for left track travel, auxiliary, swing, boom acceleration and arm

Oil filtration

Return filter 6 microns
 Pilot filter 8 microns
 Suction filter 105 microns

Hydraulic cylinders

	SH360LC/380LHD-7
Cylinder	Q'ty
Boom	2
Arm	1
Bucket	1

Double-acting, bolt-up type cylinder tube-end; hardened steel bushings
 Installed in cylinder tube and rods ends.

Cabin & controls

The cabin is mounted on four fluid mountings. Features include safety glass front, rear and side windows, adjustable upholstered suspension seat with headrest and armrest, cigarette lighter, pop-up skylight window, and intermittent wiper with washer.

The front window slides upward for storage, and the lower front window is removable. Control levers are located in four positions with tilting control consoles. Built-in type full-colour monitor display. Membrane switch on monitor display.

Swing

Planetary reduction is powered by an axial piston motor. The internal ring gear has a grease cavity for pinion. The swing bearing is a single-row shear type ball bearing. Dual stage relief valves are used for smooth swing deceleration and stops. A mechanical disc swing brake is included.

	SH360LC/380LHD-7
Swing speed	0 ~ 7.1 min ⁻¹
Tail swing radius	3,540 mm
Swing torque	112 kN·m

Undercarriage

An X-style carbody is integrally welded for strength and durability. The grease cylinder track adjusters have shock absorbing springs. The undercarriage has lubricated rollers and idlers.

Type of shoe: sealed link shoe

Upper rollers -

Heat treated, mounted on steel bushings with leaded tin bronze casting, sealed for lifetime lubrication.

Lower rollers -

Heat treated, mounted on steel bushings with leaded tin bronze casting, sealed for lifetime lubrication.

Track adjustment -

Idler axles adjusted with grease cylinder integral with each side frame; adjustment yoke mechanism fitted with heavy duty recoil spring.

Number of rollers and shoes on each side

	SH360LC/380LHD-7
Upper rollers	2
Lower rollers	8
Track shoes	48

Travel system

Two-speed independent hydrostatic system with compact axial motors for increased performance. Hydraulic motor powered output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame. Travel speed can be selected by the switch panel on the monitor display. Hydraulically released disc parking brake is built into each motor.

	SH360LC/380LHD-7
Travel speed	High
	5.7 km/h
	Low
	3.4 km/h
Drawbar pull	
	264 kN

Lubricant & coolant capacity

	SH360LC/380LHD-7
Hydraulic system	350 ltr
Hydraulic oil tank	175 ltr
Fuel tank	590 ltr
Cooling system	38 ltr
Final drive case (per side)	9.5 ltr
Swing drive case	5.0 ltr
Engine crank case	49 ltr
Urea water tank	152 ltr

Auxiliary hydraulic system

	SH360LC/380LHD-7		
Auxiliary piping type (option)	For Breaker	For Double (breaker & crusher) acting	For D/A + Second option line STD
Arm type	HD	HD	HD
Bucket linkage type	HD	HD	HD
Auxiliary hydraulic pump flow	300 ltr/min	600 ltr/min	600+62 ltr/min

Bucket

Options and specifications may differ depending on countries and regions

Model	SH360LC-7	SH380LHD-7
Bucket capacity (ISO/SAE/PCSA heaped)	1.7 m ³	1.9 m ³
Bucket type	HD ROCK	HD ROCK
Number of teeth	5	5
Width	With side cutter	—
	Without side cutter	1,325 mm
Weight		1,667 kg
Combination	2.63 m arm	◎
	3.25 m arm	●

◎ Suitable for materials with density up to 2,000 kg/m³ or less

● Standard bucket (Suitable for materials with density up to 1,800 kg/m³ or less)

Weight & Ground Pressure

Model	SH360LC-7			
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	3,200 mm	38,100 kg	71 kPa
Model	SH380LHD-7			
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	3,200 mm	38,500 kg	72 kPa

Digging Force

Model	SH360LC/380LHD-7	
Arm length	2.63 m	3.25 m
Bucket digging force <with auto power up>	ISO 6015	225 kN <244 kN>
Arm digging force <with auto power up>	ISO 6015	194 kN <211 kN>
		164 kN <178 kN>

Specifications

Principle Specifications

		SH360LC-7	SH380LHD-7
STD Specifications			
Base	Boom length	6.45 m	
	Arm length	3.25 m	
	Bucket capacity (ISO heaped)	1.7 m ³	1.9 m ³
	Std. operating weight	38,100 kg	38,500 kg
Engine	Make & model	ISUZU VE-4HK1X	
	Rated output	200 kW/1,900 min ⁻¹	
	Displacement	7.79 ltr	
Hydraulic System	Main pump	2 variable displacement axial piston pumps with regulating system	
	Max. pressure	34.3 MPa	
	/with auto power boost	37.3 MPa	
	Travel motor	Variable displacement axial piston motor	
	Parking brake type	Mechanical disc brake	
	Swing motor	Fixed displacement axial piston motor	
Performance	Travel speed (high/low)	5.7/3.4 km/h	
	Drawbar pull	264 kN	
	Gradeability	70% <35°>	
	Ground pressure	71 kPa	72 kPa
	Swing speed	9.7 min ⁻¹	
	Bucket digging force	225 kN	
	/with power boost	244 kN	
	Arm digging force	164 kN	
	/with power boost	178 kN	
	Fuel tank	590 ltr	
Others	Hydraulic fluid tank	175 ltr	
	Urea water tank	152 ltr	

Standard Equipment

[Hydraulic system]

- SIH:S α hydraulic system
- Operation mode (SP, H and A mode)
- Automatic 2-speed travel
- Automatic power boost
- Boom/arm holding valve
- Arm/boom/bucket reactivation circuit
- Automatic swing parking system
- Auxiliary valve
- High-performance return filter

[Cabin/interior equipment]

- Shock-less cab suspension by 4-point fluid mounts
- New full-colour LCD monitor
- Tilting console
- Fresh-air intake pressurised full-automatic air conditioner
- Defroster
- Hot & cool box
- High water-repellent seat
- Seat suspension
- Armrest & headrest
- Windscreen wiper (with intermittent operation function)
- Cup holder
- Magazine rack
- Accessory case
- Floor mat
- Ashtray & cigarette lighter
- Cab light (Auto-OFF function)
- Coat hook
- Operation lever with one-touch wiper switch
- Polycarbonate roof top window with sunshade
- 12V power (DC-DC converter)

[Safety equipment]

- ROPS cab (FOPS level 1)
- Head guard (OPG Level 2)
- Rear/right side camera
- Rearview mirror (left/right)
- Emergency escape tool
- Retracting seat belt
- Gate lock lever (engine neutral start)
- Travel alarm
- Anti-theft alarm system
- Engine room firewall
- Fan guard
- Engine emergency stop switch

[Others]

- Auto/one-touch idling
- Auto idle shutdown system
- EMS
- Long-life hydraulic oil
- Five lights (chassis, left/right of boom, cab)
- Fuel filter (with water separator and clogging sensor)
- Fuel pre-filter (with water separator)
- Double-element air cleaner
- Grease-enclosed track link
- Large tool box
- A set of tools
- Pre-air cleaner

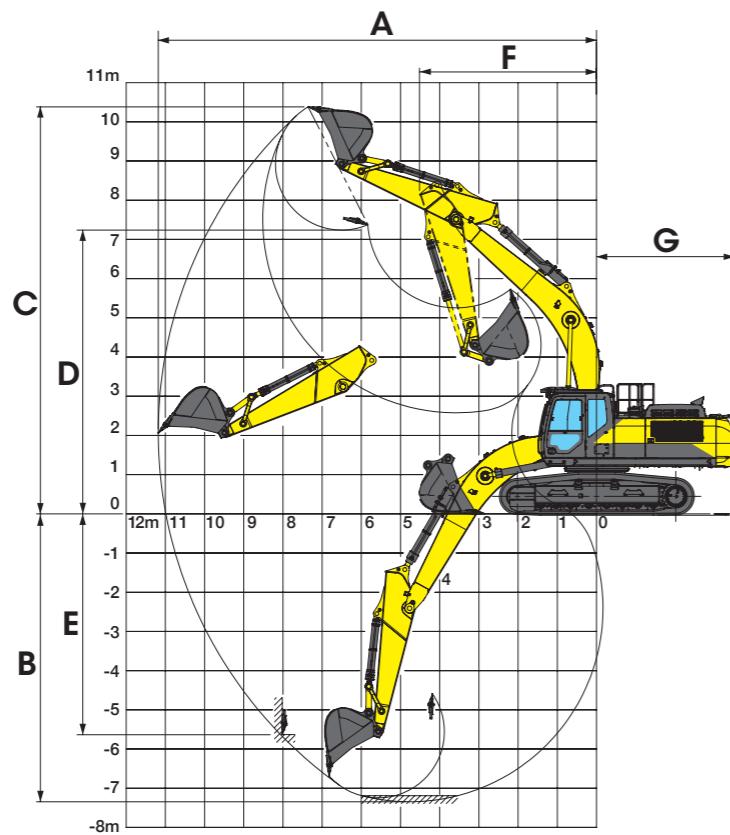
Accessories (option)



Accessories and specifications may differ depending on countries and regions.

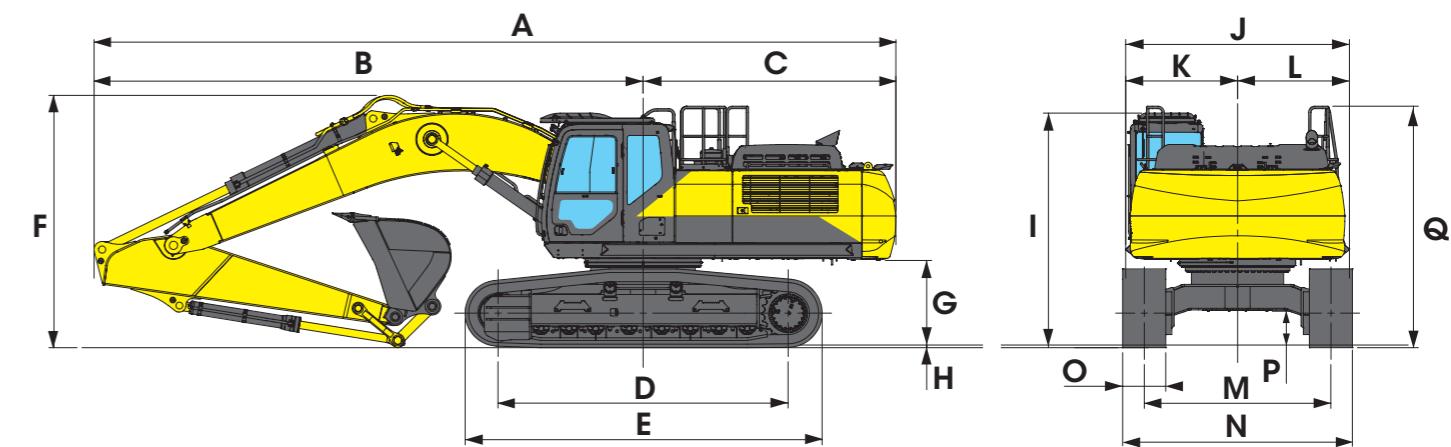
Specifications

Working Range



	SH360LC/380LHD-7	
Arm length	2.63 m	3.25 m
Boom length	6.45 m	
A Max. digging radius	10,660 mm	11,180 mm
B Max. digging depth	6,730 mm	7,350 mm
C Max. digging height	10,290 mm	10,380 mm
D Max. dumping height	7,100 mm	7,240 mm
E Max. vertical wall cut depth	5,360 mm	5,630 mm
F Min. front swing radius	4,440 mm	4,520 mm
G Rear end swing radius	3,540 mm	

Dimensions



Model	SH360LC-7		SH380LHD-7	
Arm length	2.63 m	3.25 m	2.63 m	3.25 m
A Overall length	11,220 mm	11,170 mm	11,220 mm	11,170 mm
B Length from centre of machine (to arm top)	7,700 mm	7,650 mm	7,700 mm	7,650 mm
C Length from centre of machine (to rear end)		3,520 mm		
D Centre to centre of wheels		4,040 mm		
E Overall track length		4,980 mm		
F Overall height	3,670 mm	3,510 mm	3,670 mm	3,510 mm
G Clearance height under upper structure		1,180 mm		
H Shoe lug height		36 mm		
I Cab height		3,270 mm		
J Upper structure overall width	3,030 mm		3,120 mm	
K Width from centre of machine (left side)	1,540 mm		1,560 mm	
L Width from centre of machine (right side)	1,490 mm		1,560 mm	
M Track gauge		2,600 mm		
N Overall width		3,200 mm		
O Std. shoe width		600 mm		
P Minimum ground clearance		470 mm		
Q Handrail height		3,360 mm		