

KOMATSU®

PC70-8

HORSEPOWER
Gross: 50.7 kW 68 HP @ 1950 min⁻¹
Net: 48.5 kW 65 HP @ 1950 min⁻¹

OPERATING WEIGHT
6500 kg

BUCKET CAPACITY
0.3-0.37m³

PC
70

COMPACT
HYDRAULIC EXCAVATOR



Photo may include optional equipment.

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KOMATSU®

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WALK-AROUND

HORSEPOWER
 Gross: 50.7 kW 68 HP @ 1950 min⁻¹
 Net: 48.5 kW 65 HP @ 1950 min⁻¹

OPERATING WEIGHT
 6500 kg

BUCKET CAPACITY
 0.3 – 0.37 m³

Ecology and Economy Features

- Turbocharged and powerful engine Komatsu SAA4D95LE
- Low emission engine
- Selectable working modes
- Auto-decelerator to minimize fuel consumption
- Eco-gauge that assists energy-saving operations
- Idling caution for fuel conservation
- Closed-center Loading Sensing System (CLSS)

See pages 4 and 5.

Large Comfortable Cab

- Exceptionally low-noise cab
- Excellent visibility
- Wide spacious cab
- Automatic air conditioner

See page 6.

Large TFT LCD Monitor

- Easy-to-view and use 7" large multi-function color monitor
- EMMS (Equipment Management Monitoring System)

TFT : Thin Film Transistor
 LCD : Liquid Crystal Display

See page 7.

Easy Maintenance and Durability

- Wide-open cover and optimum layout of components are enable easy maintenance
- Easy to clean cooling facilities
- Easy access to engine-oil filter, fuel filter and fuel drain valve
- Equip fuel pre-filter (with water separator)
- Long-life oil and filter
- Easy to clean air conditioner filter
- Air cleaner with double element
- Large capacity tool box
- Steel plate for all external
- Heavy-duty work equipment
- Large carrier rollers
- Revolving flame with undercover as standard
- Durable travel motor
- Reinforced revolving flame
- Accumulator on work hydraulic circuit as standard

See pages 8 and 9.



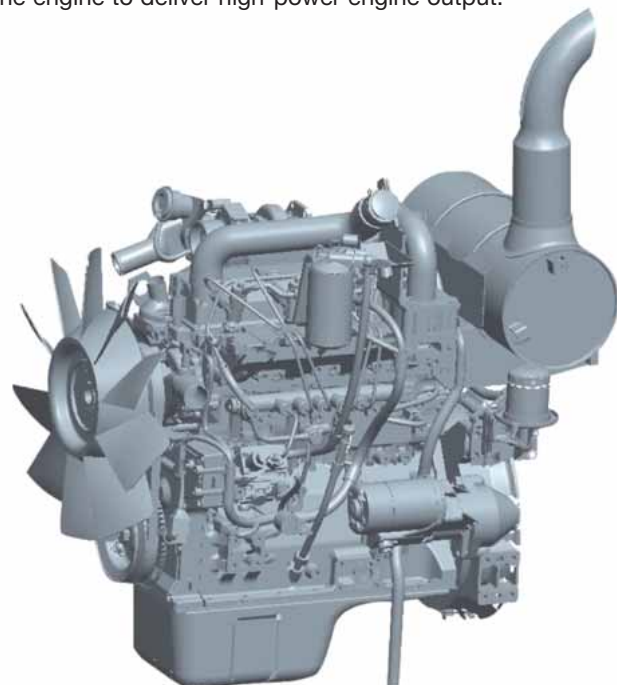
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ECOLOGY FEATURES



Turbocharged and Powerful Engine Komatsu SAA4D95LE

Increased flywheel horsepower and the turbocharger allow the engine to deliver high-power engine output.



Newly Designed Engine with turbocharger

- Benefit 1** Compact and lightweight engine with high power.
- Benefit 2** Thermal efficiency by better combustion conditions.
- Benefit 3** Minimal power drop at high altitude.

PC70-8
48.5kW/1950min⁻¹
(65HP/1950min⁻¹)

Low Emission Engine

The newly-developed Komatsu ecot3 engine enables NOx emissions to be significantly reduced. This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.



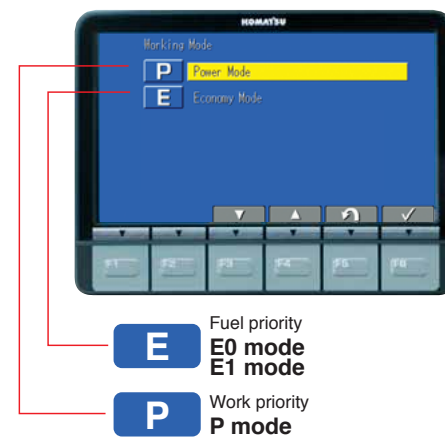
Selectable Working Modes

Two established work modes are further improved.

P mode- Power or work priority mode has improved fuel consumption, while maintaining fast equipment speed and maximum production and power are maintained.

E mode- Economy of fuel priority mode further reduces fuel consumption. But maintains the P mode-like working equipment speed for light duty work.

You can select Power or Economy modes using a one-touch operation on the monitor panel depending on work load. In addition, you can select E0 or E1 modes within E mode depending on work load.



Auto-decelerator to Minimize Fuel Consumption

Engine speed automatically slows down when all control levers are set in neutral to minimize fuel consumption.

Eco-gauge that Assists Energy-saving Operations

The Eco-gauge on the right side of the multi-function color monitor provides environment-friendly energy-saving operation. Focus on operation in the green range allows reduction of CO₂ emissions and efficient fuel consumption.



Idling Caution for Fuel Conservation

To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.



Closed-center Loading Sensing System (CLSS)

Due to the field-proven "pressure compensation CLSS" hydraulic system and Komatsu's excellent hydraulics tuning technology, the machine satisfies both requests for powerful operation and fine controllability. Operator can control at will and work efficiently.



OPERATOR ENVIRONMENT



Exceptionally Low-noise Cab

Cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows this machine to generate a low level of noise.

Excellent Visibility

The operator's station design allows the operator to maintain a 360° field-of-view.



Wide Spacious Cab

Newly designed large cab provides roomy work space and wide legroom. In addition, large operator's seat is fore-and-aft sliding and has a reclining function, allowing even a large build operator to operate the machine in comfortable operating posture.



Automatic Air Conditioner

The automatic air conditioner uses a bi-level control function to keep the operator's head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps cab glass clear.



LARGE TFT LCD MONITOR



Large TFT LCD Monitor

A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. The switches are simple and easy to operate. Industry first function keys facilitate multi-function operations. Displays data in 12 languages to globally support operators around the world.

Indicators

- | | |
|----------------------------------|-----------------------------------|
| 1 Clock | 6 Hydraulic oil temperature gauge |
| 2 Auto-decelerator | 7 Fuel gauge |
| 3 Working mode | 8 Eco-gauge |
| 4 Travel speed | 9 Function switches menu |
| 5 Engine water temperature gauge | |

Basic operation switches

- | | |
|-------------------------|---------------------|
| 1 Auto-decelerator | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper |
| 3 Traveling selector | 6 Windshield washer |

EMMS (Equipment Management Monitoring System)

Monitor function

Controller monitors engine oil level, coolant temperature, battery charge and air clogging, etc. If the controller finds any abnormality, it is displayed on the LCD.



Maintenance function

The monitor informs replacement time of oil and filters on the LCD when the replacement interval is reached.



Trouble data memory function

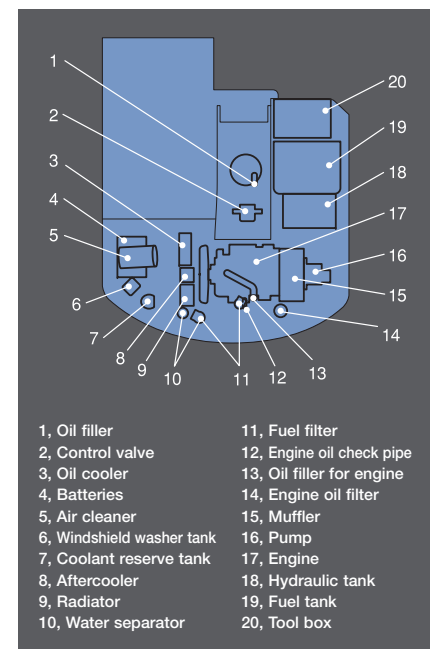
Monitor stores abnormalities for effective troubleshooting.

MAINTENANCE FEATURES



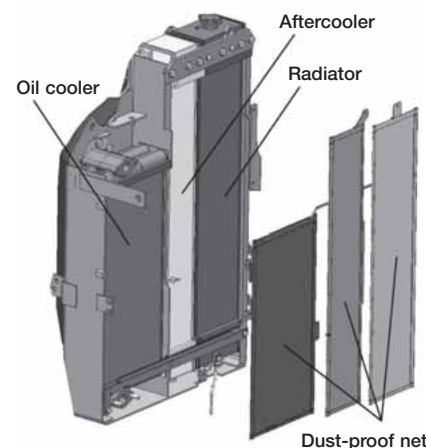
Easy Maintenance

Wide-open cover enable to easy maintenance. In addition, maintenance points of the machine are laid out taking the ease of checks and maintenance into consideration.



Easy to Clean Cooling Facilities

The oil cooler, aftercooler and radiator are installed side by side. As result, it is very easy to clean, remove and install them. Dust-proof net is included as standard equipment.



Easy Access to Engine Oil Filter, Engine Main Fuel Filter and Fuel Drain Valve

Engine oil filter, engine main fuel filter and fuel drain valve are remote mounted to improve accessibility.



Equip Fuel Pre-filter (with Water Separator)

Removes water and contaminants in the fuel to prevent fuel problems. (with built-in priming pump)



Long-life Oil and Filter

Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.



Hydraulic oil filter (Eco-white element)

Engine oil & Engine oil filter	every 500 hours
Hydraulic oil	every 5000 hours
Hydraulic oil filter	every 1000 hours

Easy to Clean Air Conditioner Filter

The air conditioner filter is removed and installed without the use of tools facilitating filter maintenance.



Air Cleaner with Double Element

Air cleaner and double element prevent from dust.



Large Capacity Tool Box

Tool box attached on right side of machine is very large to store normal tool kit and pail can.



Steel Plate for All External

Easy to maintenance and repair.



Heavy-duty Work Equipment

Due to simple and economical structure, work equipment is more durable than old model.



Large Carrier Roller

High durability, due to large carrier roller.



Revolving Flame with Undercover as Standard

It prevent inner of machine from being broken by heavy-duty environment.



Durable Travel Motor

Durability buildup significantly, due to change structure of final gear about travel motor.

Reinforced Revolving Flame

High reliability, due to thickening width of plate significantly.

Accumulator on Work Hydraulic Circuit as Standard

It enable to down work equipment for a little while before stopping engine.

STANDERD ACCESSORYS, OPTIONS, SPECIAL MODEL

STANDARD EQUIPMENT

- Closed-center system with load-sensing valve and pressure-compensated valve
- PPC wrist control lever
- Fuel control dial
- Cushion at end of boom stroke
- Parking brake
- Swing lock brake
- Auto-decelerator
- Auto shift travel gear
- Boom and Arm holding valve
- Working mode selection system
- Lock lever
- Rear view mirror(right side of machine)
- Emergency escape hammer
- Thermal guard
- Fan guard
- Hand rail for up and down
- 7 inch TFT LCD Monitor
- Magazine rack
- Washable floor mat
- Large roof window
- Automatic Air Conditioner
- Beverage holder
- Defroster
- AM/FM radio
- Room light
- Ashtray
- Cigarette lighter
- Wiper
- Hand rail
- Footrest
- Reinforced front glass
- Left side door
- Large sheet
- Komatsu SAA4D95LE-5 engine
- Air cleaner (double elements)
- Side-by-side cooling
- Wave fin radiator
- Radiator and oil cooler with dustproof net
- Fuel pre-filter (with water separator)
- Large tool box
- Grease gun holder
- Working lights



Large roof window



Left window



Wiper with washer



Hand rail



Cigarette lighter



Ashtray



Magazine rack and Beverage holder



AM/FM radio

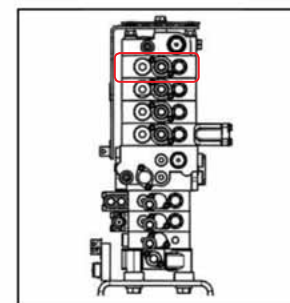
ADDITIONAL HYDRAULIC FUNCTIONS SPEC



Stop valve



Shifting valve & expanded filter
Shifting valve for breaker and crusher/common piping



Service valve
Service valve is standard equipment in piping spec

HEAVY-DUTY SPEC



Reinforced arm



Reinforced bucket



Reinforced revolving guard

Operating weight.....6615kg
Horsepower..... 48.5kW 65HP /1950min⁻¹
Bucket capacity..... 0.37m³ reinforced bucket

BLADE SPEC



Operating weight.....7200kg
Horsepower..... 48.5kW 65HP /1950min⁻¹
Blade width × height..... 2260mm×470mm
Blade max. lift above ground..... 410 mm
max. drop below ground270mm

OPTIONAL EQUIPMENT

- Dustproof net
- Head light
- Rear mirror (left side of machine)
- Seat belt
- Service valve
- Suspension seat
- Track roller guard

SPECIFICATIONS



ENGINE

ModelKomatsu SAA4D95LE-5-L
 Type Water-cooled, 4-cycle, direct injection
 Aspiration Turbocharged, and air-to-air aftercooled
 Number of cylinders4
 Bore 95 mm
 Stroke 115 mm
 Piston displacement3.26 L
 Horsepower:
 SAE J1995 Gross 50.7 kW 68 HP
 ISO 9249 / SAE J1349 Net 48.5 kW 65 HP
 Rated rpm 1950 min⁻¹
 Fan drive method for radiator cooling Mechanical
 Governor All-speed control, electronic

EPA Tier 3 Interim and EU Stage 3A emissions certified.



HYDRAULICS

TypeClosed-center system with load sensing valves and pressure-compensated valves

Main pump:

Type Variable displacement, axial piston
 Maximum flow 172 L / min

Hydraulic motors:

Travel Variable displacement, axial piston
 Swing Fixed displacement, axial piston

Relief valve setting:

Implement circuits 24.5 MPa 250 kg/cm²
 Travel circuit 24.5 MPa 250 kg/cm²
 Swing circuit 21.1 MPa 215 kg/cm²
 Pilot circuit 3.1 MPa 32 kg/cm²

Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

Boom 1–115 mm x 840 mm x 65 mm
 Arm 1–100 mm x 865 mm x 60 mm
 Bucket 1–90 mm x 710 mm x 55 mm



DRIVES AND BRAKES

Steering control Two levers with pedals
 Drive method Fully Hydrostatic
 Hydraulic motors Variable, displacement, axial piston motors
 Maximum drawbar pull 56.4 kN 5750 kg
 Maximum travel speed: High 4.5 km/h
 Low 2.8 km/h
 Service brake Hydraulic lock
 Parking brake Hydraulic release lock



SWING SYSTEM

Drive method Hydraulic motor
 Swing reduction Planetary gear
 Swing circle lubrication Grease-bathed
 Swing lock Hydraulic lock
 Swing speed 11 min⁻¹



UNDERCARRIAGE

Track frame Box-section
 Shoe type Triple grouser shoe
 Track adjuster Hydraulic
 Number of shoes (each side)38
 Number of carrier rollers 1 each side
 Number of track rollers (each side)5



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 130 L
 Coolant 10 L
 Engine12.5 L
 Final drive, each side 1.1 L
 Hydraulic tank 90 (57) L



OPERATING WEIGHT (APPROXIMATE)

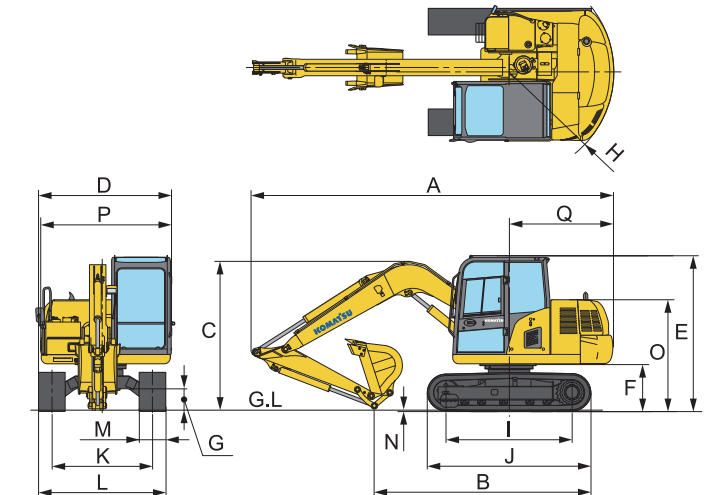
Operating weight including boom, arm, bucket with 0.3 m³ capacity, rated capacity of lubricants, coolant, operator, full fuel tank, and standard equipment.

Shoes		Operating Weight	Ground Pressure
selection	width		
Steel shoe	450 mm	6500 kg	28.4 kPa 0.29 kg/cm ²

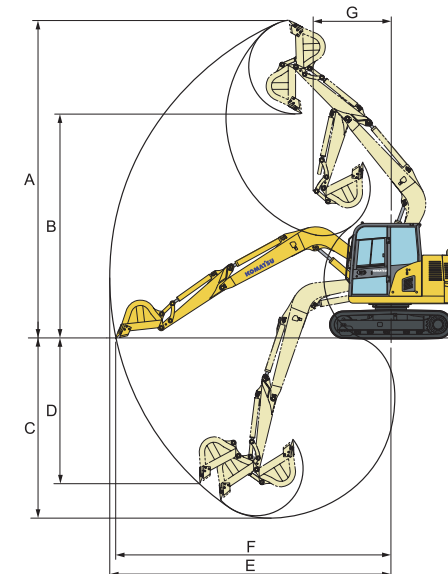


DIMENSIONS

A	Overall length	6080 mm
B	Length on ground (transport)	3655 mm
C	Overall height (to top of boom)	2500 mm
D	Overall width	2225 mm
E	Overall height (to top of cab)	2620 mm
F	Ground clearance, counterweight	750 mm
G	Ground clearance (minimum)	350 mm
H	Tail swing radius	1750 mm
I	Track length on ground	2130 mm
J	Track length	2765 mm
K	Track gauge	1700 mm
L	Width of crawler	2150 mm
M	Shoe width	450 mm
N	Grouser height	20 mm
O	Machine cab height	1865 mm
P	Machine cab width	2190 mm
Q	Distance, swing center to rear end	1750 mm



WORKING RANGE



A	Max. digging height	7150 mm
B	Max. dumping height	5015 mm
C	Max. digging depth	4100 mm
D	Max. vertical wall digging depth	3505 mm
E	Max. digging reach	6360 mm
F	Max. digging reach at ground level	6220 mm
G	Min. swing radius	1750 mm
	Bucket digging force	54.8 kN 5590 kg
	Arm crowd force	38.2 kN 3900 kg
	STD Bucket	0.3 m ³

Bucket capacity	Width		Number of Teeth
	Without side cutters	With side cutters	
0.3 m ³	655 mm	750 mm	4
0.37 m ³	815 mm	925 mm	5
0.37 m ³	680 mm	775 mm	4

Use application	Working conditions	Bucket			Arm		Revoframe	
		Capacity	Width	strengthened	STD	strengthened	STD	strengthened
General digging	Sand, gravel, clay, trenching and loading general construction job	0.3 m ³	655 mm	×	○	(○)	○	(○)
Light-duty digging	Dry, loose soil, mud, trenching and loading	0.37 m ³	815 mm	×	○	(○)	○	(○)
Heavy-duty	Dynamic high shock loads when material breaks with difficulty : quarry or tough, highly abrasive applications	0.37 m ³	680 mm	○	×	○	×	○

○ : Standard (○) : Usable × : Unusable

M E M O

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M E M O

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