

KOMATSU

GALEO

PRODUCT BULLETIN
PC800/850-8R
Hydraulic Excavators

INTERNAL USE ONLY

CEN00208-00

**Introducing the
PC800/850-8R
Hydraulic Excavators**



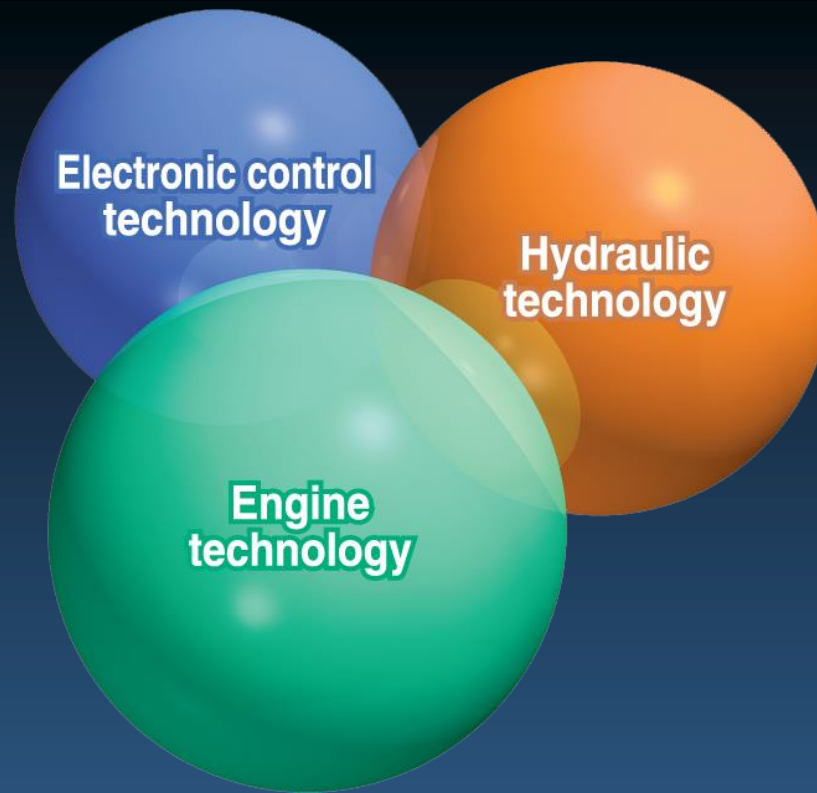
Photo may include optional equipment.

QUIT

NEXT MENU



Genuine Answers for Land & Environment Optimization



Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house.

With this "Komatsu Technology," and adding customer feedback, Komatsu is achieving great advancements in technology.

To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment friendly excavators.

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DESIGN CONCEPT

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MAIN SALES FEATURES

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- Four-level selectable Economy mode (New)
- Reduced ambient noise (New)

OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY

- High power Komatsu SAA6D140E-5 engine (New)
- Two selectable modes to meet work conditions
- Heavy lift mode
- Increased work equipment speed (New)
- Two mode setting for boom

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RELIABILITY AND DURABILITY FEATURES

- Wear-resistant, strengthened quarry bucket (KMAX bucket) (New)
- Arm with rock protector (PC850-8R: Standard) (PC800-8R: Not available)
- Guards and protectors to prevent undercarriage damage
- Clean and reliable hydraulic circuit
- Fuel pre-filter with water separator (New)
- Additional fuel main-filter for improved fuel reliability (New)
- Additional water separator (New)
- Highly reliable electric circuit

COMFORTABLE OPERATOR'S ENVIRONMENT

- Large cab -- meets ISO standard
- Adjustable operator seat
- See-through skylight for better upward visibility
- Cab damper mounting to lower noise and vibration
- Large-capacity air conditioner (Optional)
- Washable floor mat
- Multi-function color monitor

TABLE OF CONTENTS [No.3]

EASY MAINTENANCE

- Easy to clean radiator with reversible hydraulic fan (New)
- Concentrated engine check points
- Wide catwalk
- Large size tool box and grease pail space
- Electric-operated type greasing with indicator
- Electric priming pump
- EMMS (Equipment Management Monitoring System)

SAFETY FEATURES

- Super wide visibility
- Operator safety design
- Global safety design -- meets USA, EU and Japan standards
- Neutral start with PPC lock solenoid valve
- Step light with timer
- Warning light interconnected with horn (Optional)
- Anti-slip plates (New)

ATTACHMENTS & OPTIONAL EQUIPMENT

INTERCHANGEABILITY

TRANSPORTATION GUIDE

COMPETITIVE SPECIFICATIONS

DESIGN CONCEPT [No.1]

Improved environmental features

1. Fuel efficient design
2. Economy-mode four-level setting
3. Reduction of ambient noise
 - Electronic-controlled variable-speed fan
 - Large-size hybrid fan
 - Low-noise muffler and muffler sound insulation cover



Reduction of operating cost

1. Reinforced quarry bucket which has superiority in wear resistance (PC850)
 - Koma-hard, KMAX teeth
2. Fuel pre-filter as standard equipment
3. Improved fuel reliability by installing two fuel main-filter and additional water separator against poor fuel.

DESIGN CONCEPT [No.2]

Improved work performance

1. Increased dumping speed of arm and bucket
 - Employment of arm quick-return circuit

Improved safety and maintainability

1. Employment of anti-slip plates
2. Easy cleaning of the cooling unit with fan reverse rotation
3. Centralized filters and maintenance points for easy check
4. Employment of electric priming pump



SUMMARY OF FEATURES

Comparison of selling features



001
Selling features



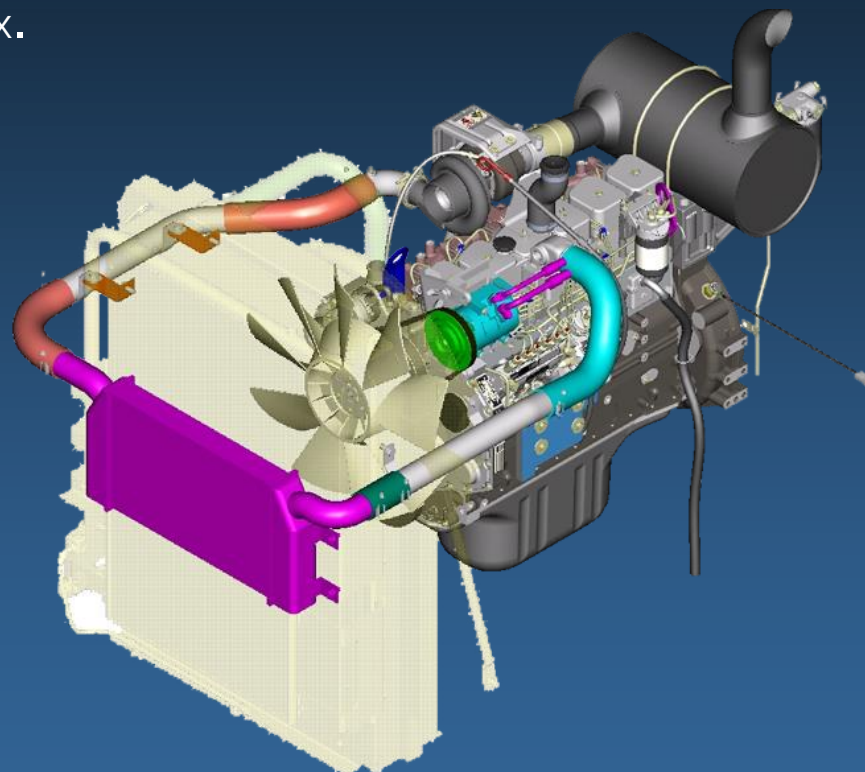
002
Selling features

ENVIRONMENT FRIENDLY FEATURES [No.1]

Fuel efficient design (New) (1/3)

- ★ **Air-to-air aftercooler contributes to low fuel consumption and NO_x reduction.**

Cooling the high-density intake air lowers the combustion temperature and reduces NO_x.



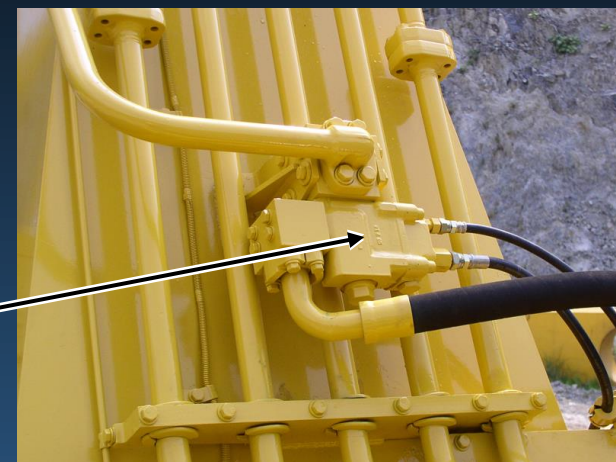
Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Aftercooler		Air-to-air cooled	Air-to-air cooled	Air-to-air cooled	Air-to-air cooled

ENVIRONMENT FRIENDLY FEATURES [No.2]

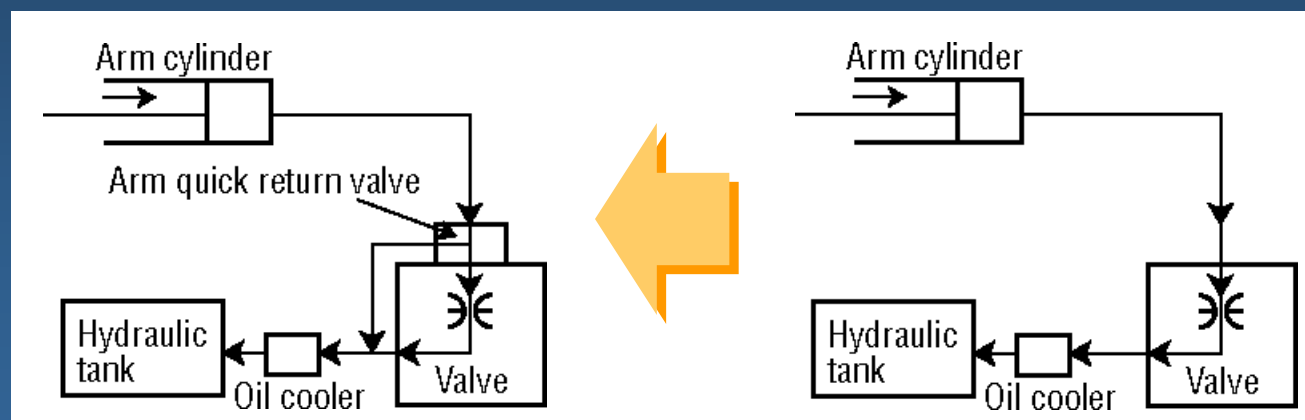
Fuel efficient design (New) (2/3)

★ Reduction of hydraulic loss by quick-return circuit

- Reduction of hydraulic loss contributes to low fuel consumption.
- Speedup of arm dumping speed



Arm quick return valve



Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Arm quick return circuit		Available	N/A	INA	INA

ENVIRONMENT FRIENDLY FEATURES [No.3]

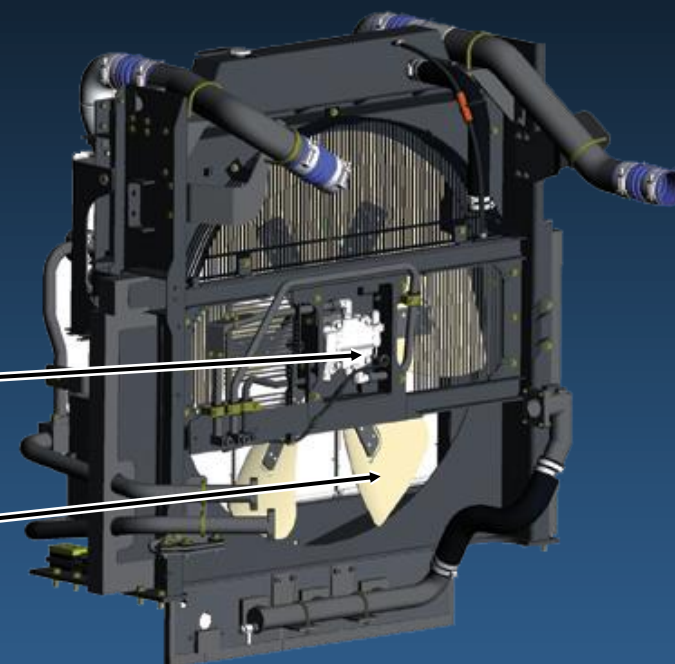
Fuel efficient design (New) (3/3)

★ Electronic-controlled, hydraulic drive, variable-speed reversible fan

- Efficient use of engine power, elimination of parasitic fuel consumption
- Easy cleaning of the cooling unit
- Low noise at normal temperatures (reduction: approx. 3dB)

Hydraulic motor for fan drive

Hybrid fan

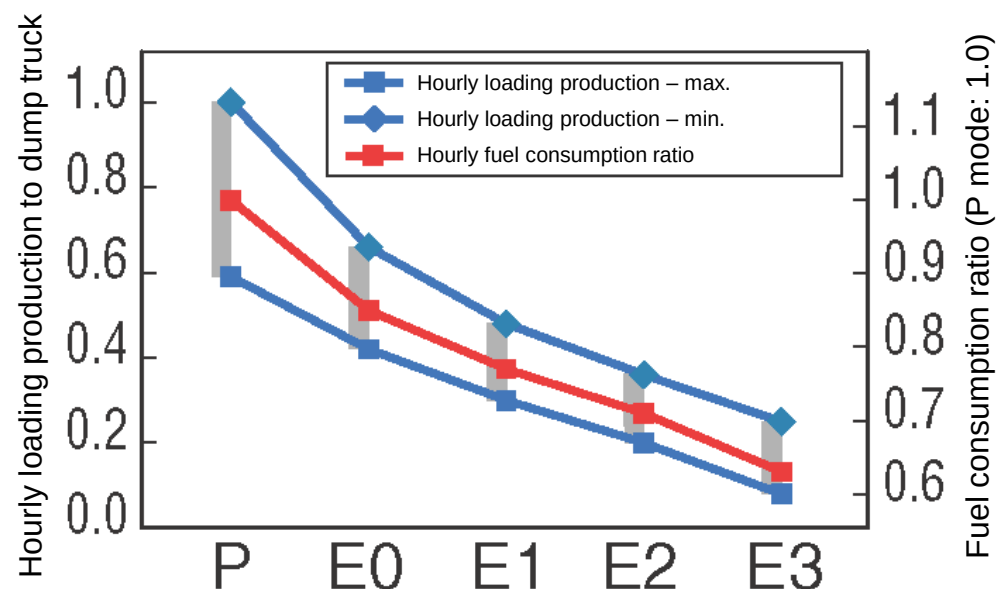
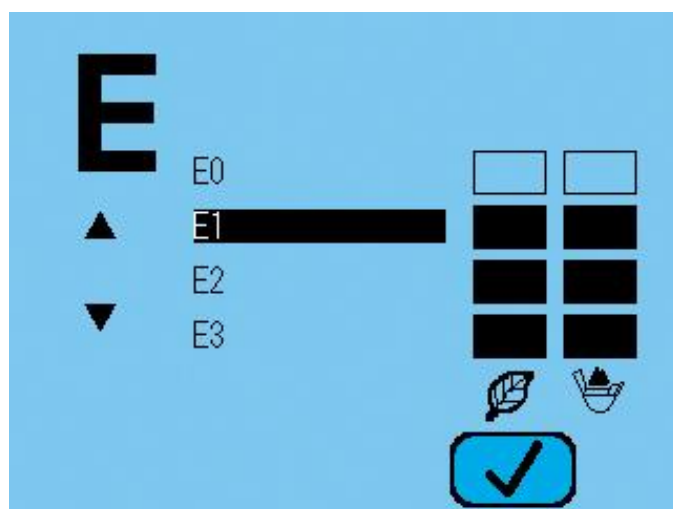


Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Fan type		Electronic-controlled, hydraulic drive, variable-speed fan	Engine direct drive fan	Electronic-controlled, hydraulic drive, variable-speed fan	Electronic-controlled, hydraulic drive, variable-speed fan

ENVIRONMENT FRIENDLY FEATURES [No.4]

★Four-level selectable Economy mode (New) (1/4)

If the setting is changed from E0 to E1, E2 and E3, production decreases but fuel consumption also decreases, resulting in higher fuel efficiency.

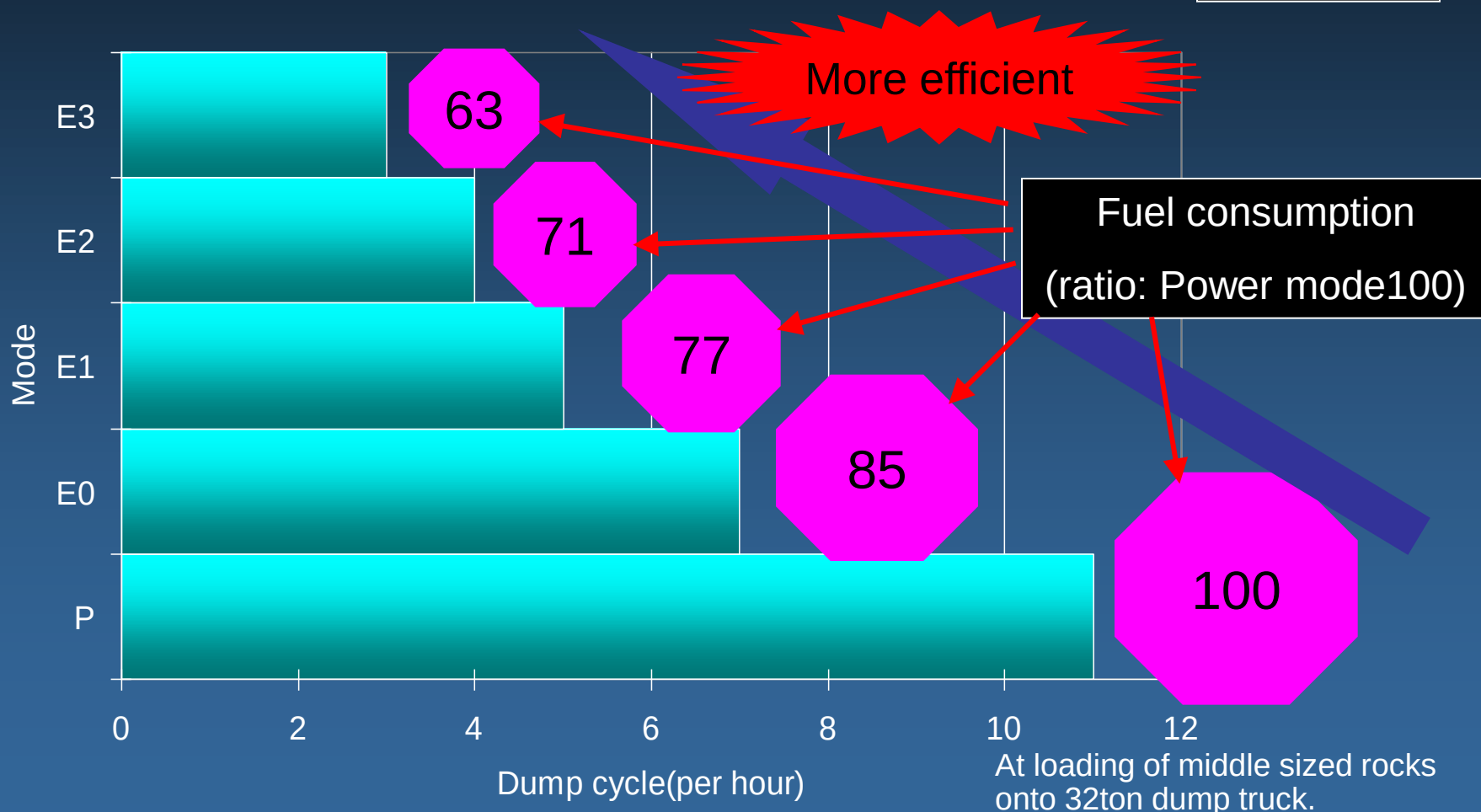


ENVIRONMENT FRIENDLY FEATURES [No.5]

★Four-level selectable Economy mode (New) (2/4)

Operation mode can be selected depending on customer's hourly production to **save fuel consumption.**

Rock loading



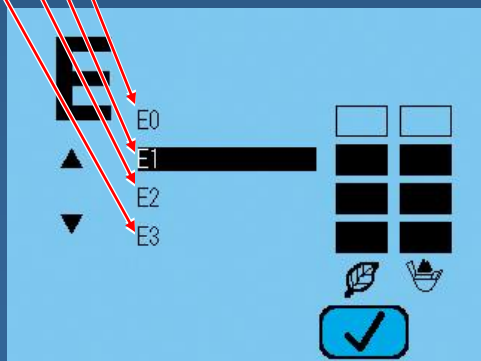
ENVIRONMENT FRIENDLY FEATURES [No.6]

★Four-level selectable Economy mode (New) (3/4)

4-mode settings for less fuel consumption depending on customer's operating condition

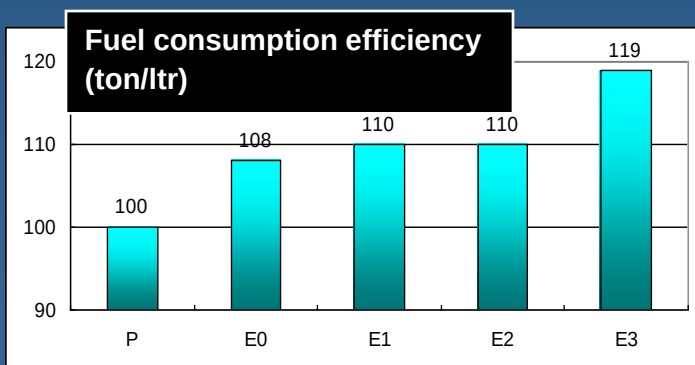
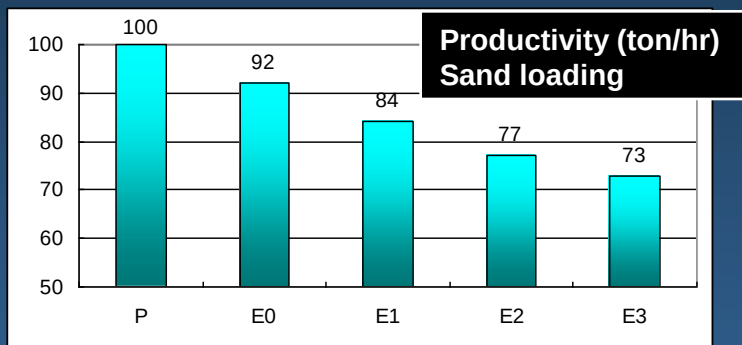
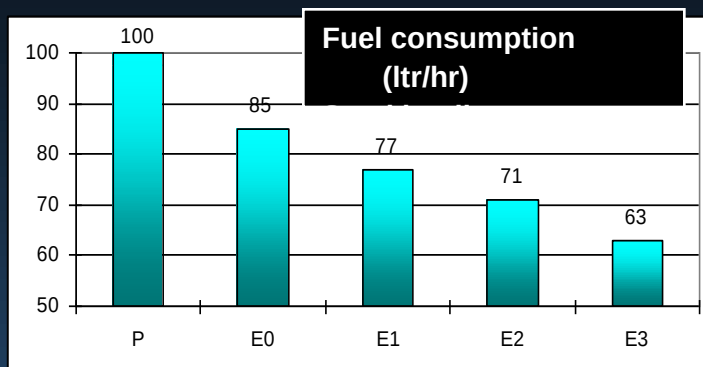


	Itr/hr	ton/hr	ton/ltr
Mode	Fuel consumption	Productivity	Fuel consumption efficiency
P			
E0	 GOOD	 HIGH	 GOOD
E1			
E2			
E3			

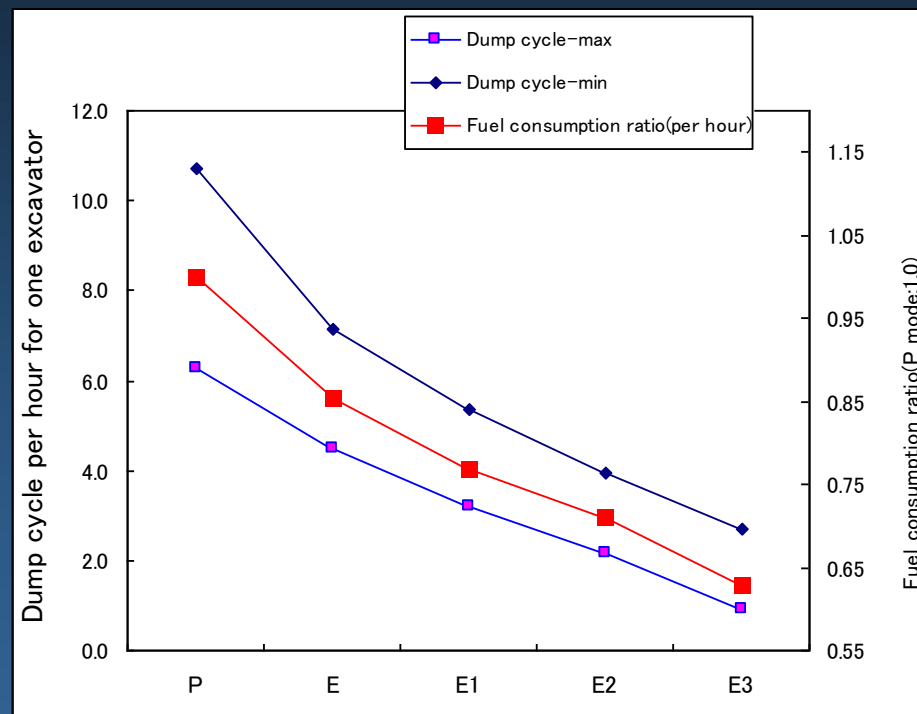


ENVIRONMENT FRIENDLY FEATURES [No.7]

★Four-level selectable Economy mode (4/4)



Rock loading

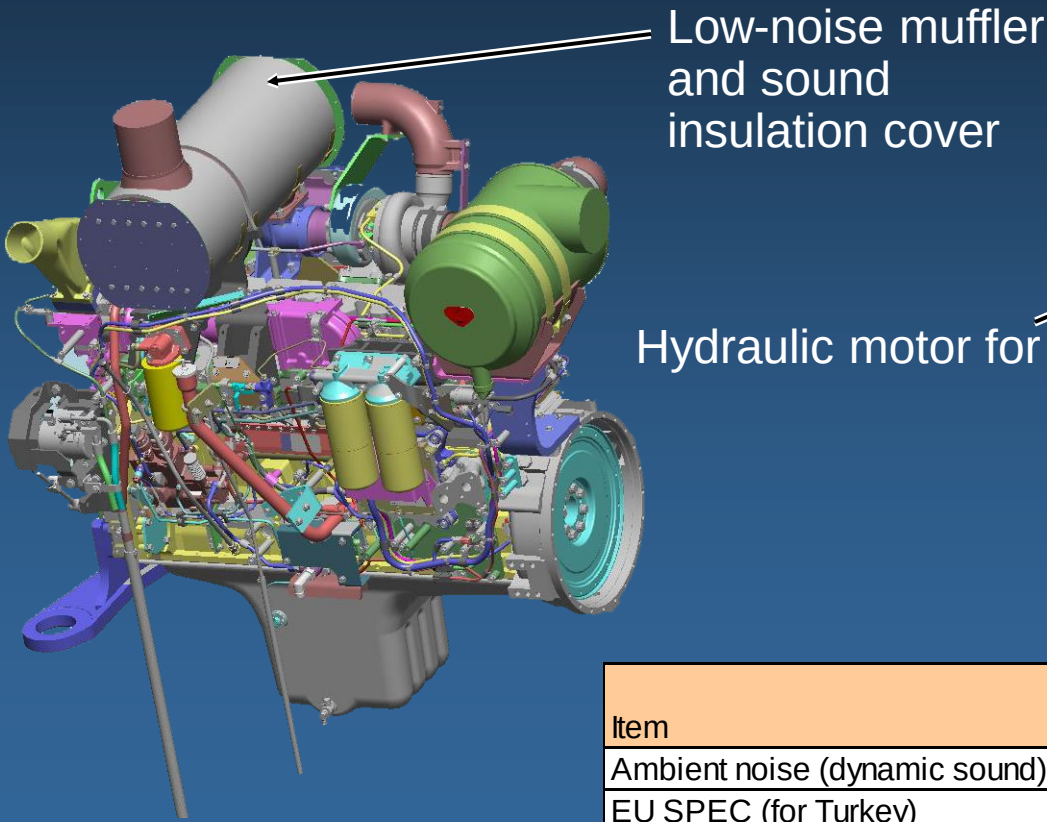


In case of combination with PC850 and 32ton dump truck at loading middle sized rocks.

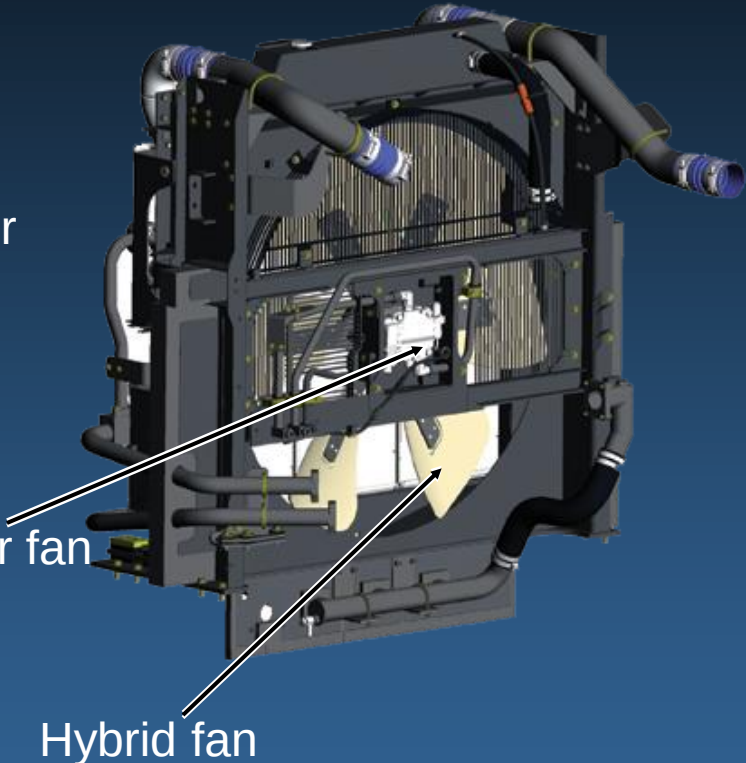
ENVIRONMENT FRIENDLY FEATURES [No.8]

★Reduced ambient noise (New)

- Electronic-controlled variable-speed fan
- Large-size hybrid fan
- Low-noise muffler with glass-wool inner liner and sound insulation cover



Hydraulic motor for fan



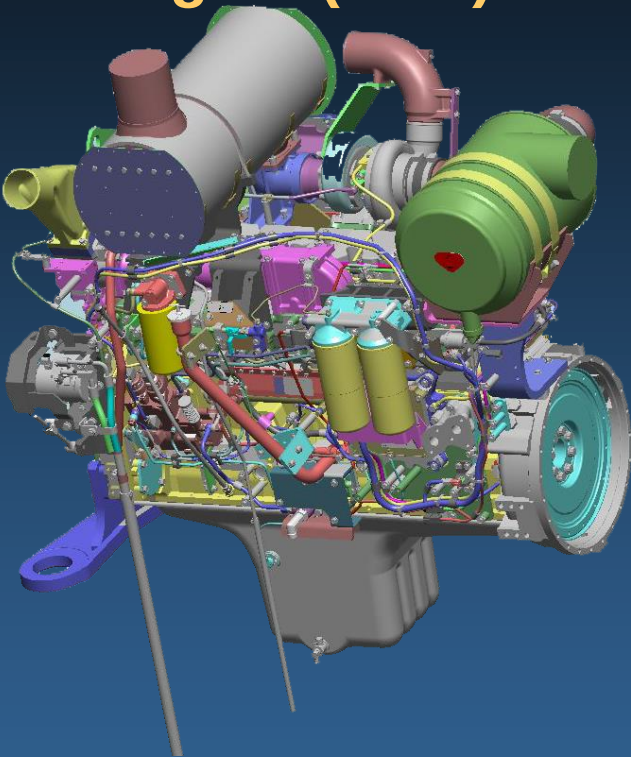
Model		Komatsu PC800/850-8R	Komatsu PC750/800-7
Item			
Ambient noise (dynamic sound)	dB(A)	108/112*	114*
EU SPEC (for Turkey)		106.5/109.5*	-

* Fan max speed

OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY [No.1]

★ High power Komatsu SAA6D140E-5 engine (New)

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides **363 kW** 487 HP. This Komatsu SAA6D140E engine actualizes high-power to low fuel consumption with the optimum fuel injection by electronic heavy duty HPCR (High Pressure Common Rail) fuel injection system.



Comparison of engine model

Model			Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850-3	CAT 385C
Item						
Engine model		-	Komatsu SAA6D140E-5	Komatsu SAA6D140E-3	ISUZU AH-6WG1XYSA	CATERPILLAR C18ATAAC
Horsepower	Net	kW/rpm {HP/rpm}	363/1800 {487/1800}	338/1800 {454/1800}	-	382/1800 {513/1800}
	Gross	kW/rpm {HP/rpm}	370/1800 {496/1800}	-	397/1800 {532/1800}	390/1800 {527/1800}

OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY [No.2]

★Two selectable modes to meet work conditions

Working Mode	Application	Advantage
P	Power mode	• Maximum production/power • Fast cycle times
E (E0, E1, E2, E3)	Economy mode	• Good cycle times • Good fuel economy



Power mode

Economy mode

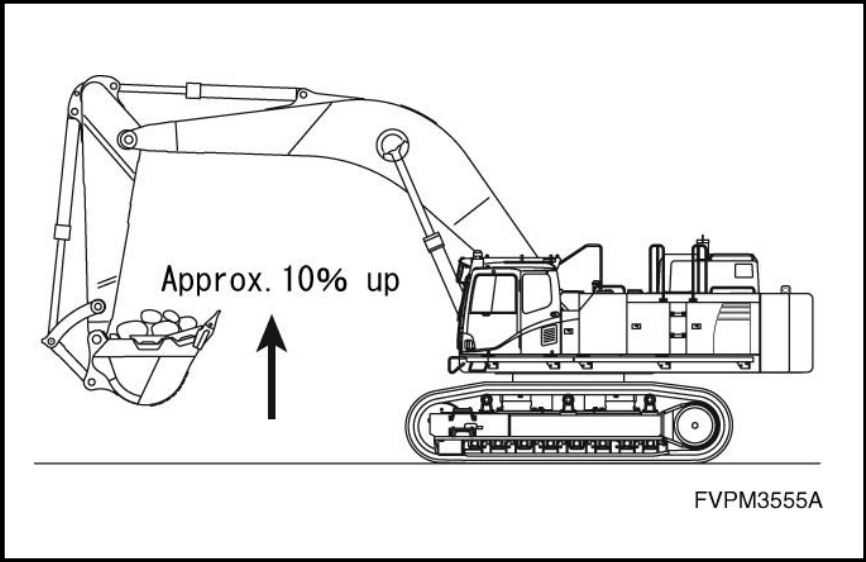
Heavy lift mode

Swing priority mode

OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY [No.3]

★ Heavy lift mode

The lifting force increases by approx. 10% when the lifting mode is selected.

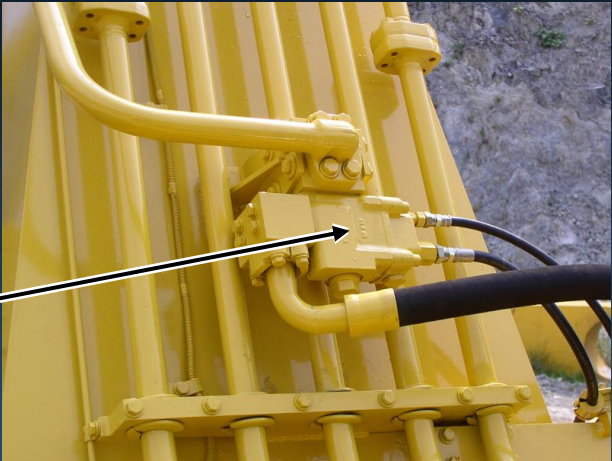


Model		Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Item					
Heavy lift mode	–	Equipped	Heavy lift	Not equipped	Equipped
Hydraulic pressure setting	MPa (kgf/cm ²) (PSI)	31.4 to 34.3 (320 to 350) (4550 to 4980)	31.4 to 34.3 (320 to 350) (4550 to 4980)	–	32.0 to 35.0 (326 to 357) (3640 to 5080)

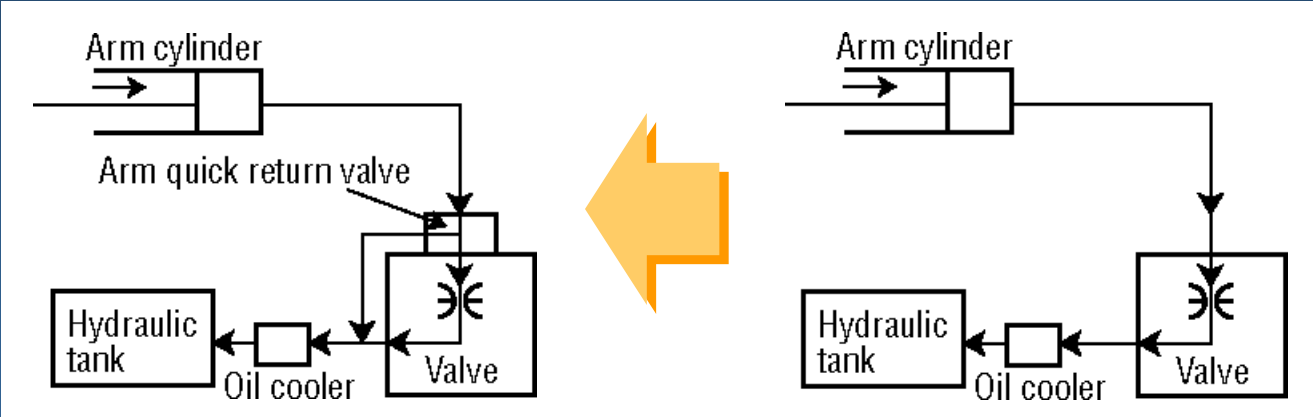
OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY [No.4]

Increased work equipment speed (New)

★ Arm and bucket dumping speed are increased.



Arm quick return valve



Item	Model		Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Arm dumping speed		sec	3.7	4.1	INA	INA
Bucket dumping speed		sec	3.4	3.7	INA	INA

OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY [No.5]

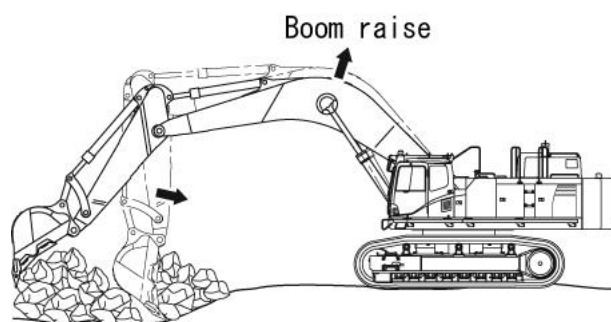
★ Two mode setting for boom (1/2)

Smooth mode

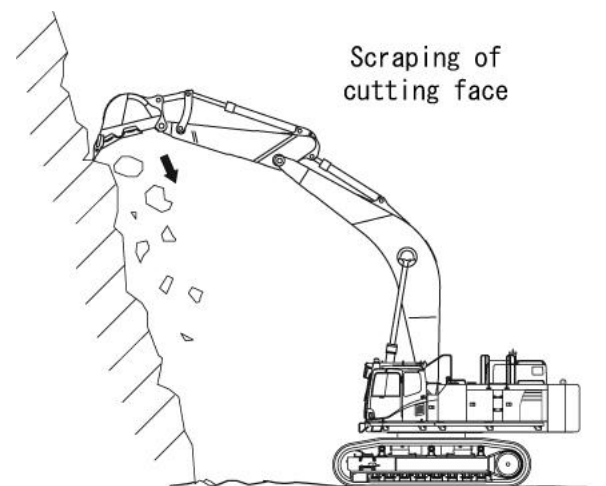
Smooth gathering work and scraping-down work with arm are possible.



Two boom setting switch



FVPM3546A



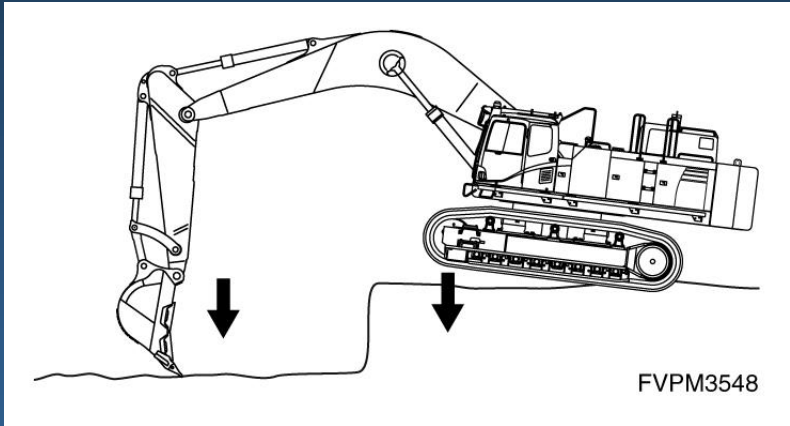
FVPM3547

OUTSTANDING WORK PERFORMANCE AND PRODUCTIVITY [No.6]

★ Two mode setting for boom (2/2)

Power mode

Boom down force is increased, ditch digging and box digging operation on hard ground are improved.

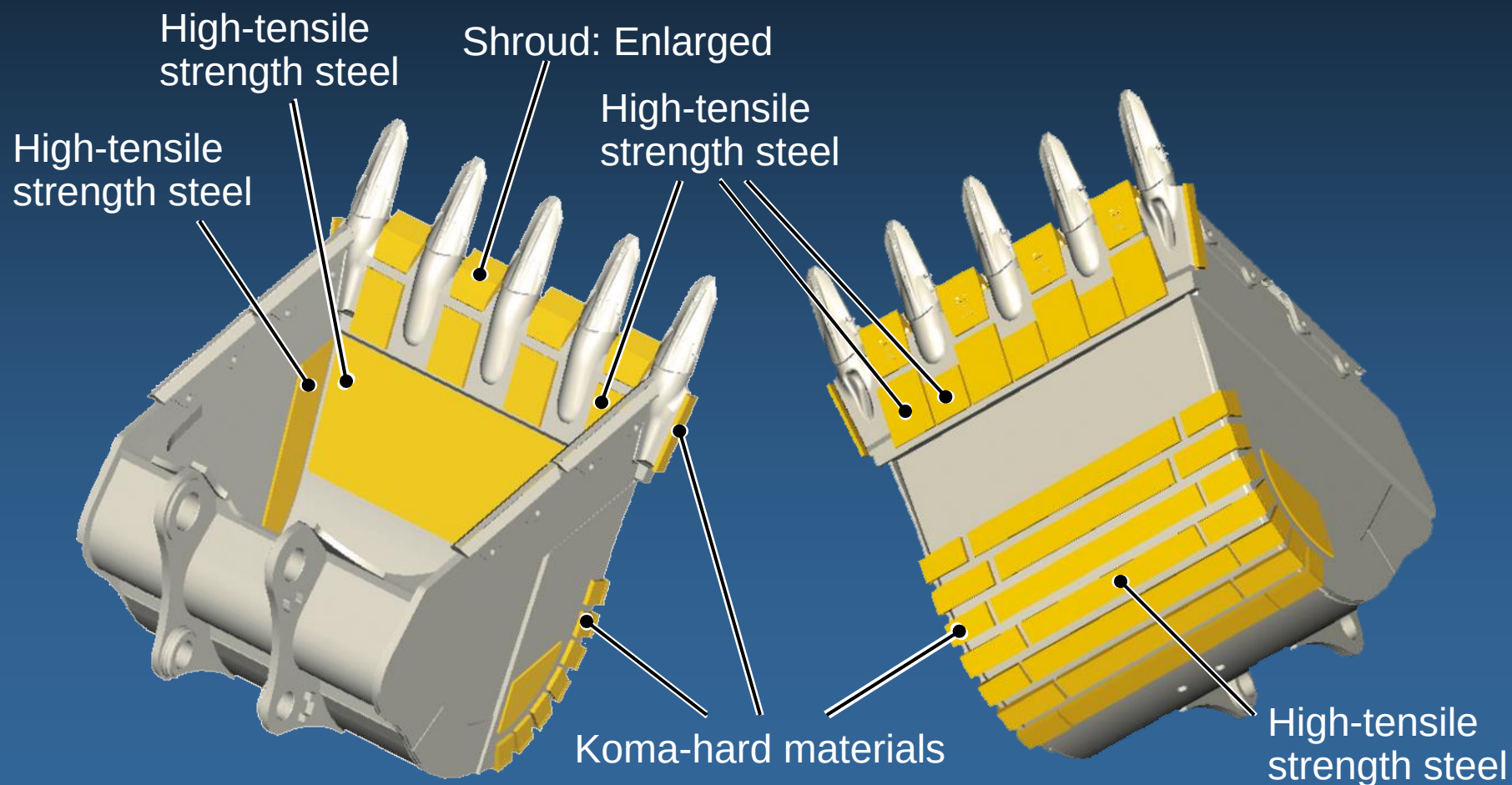


Two boom setting switch

Item		Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Two-mode setting for boom		—	Equipped	Equipped	Equipped	Not equipped

RELIABILITY AND DURABILITY FEATURES [No.1]

★ Wear-resistant, strengthened quarry bucket (KMAX bucket) (New) (1/2)

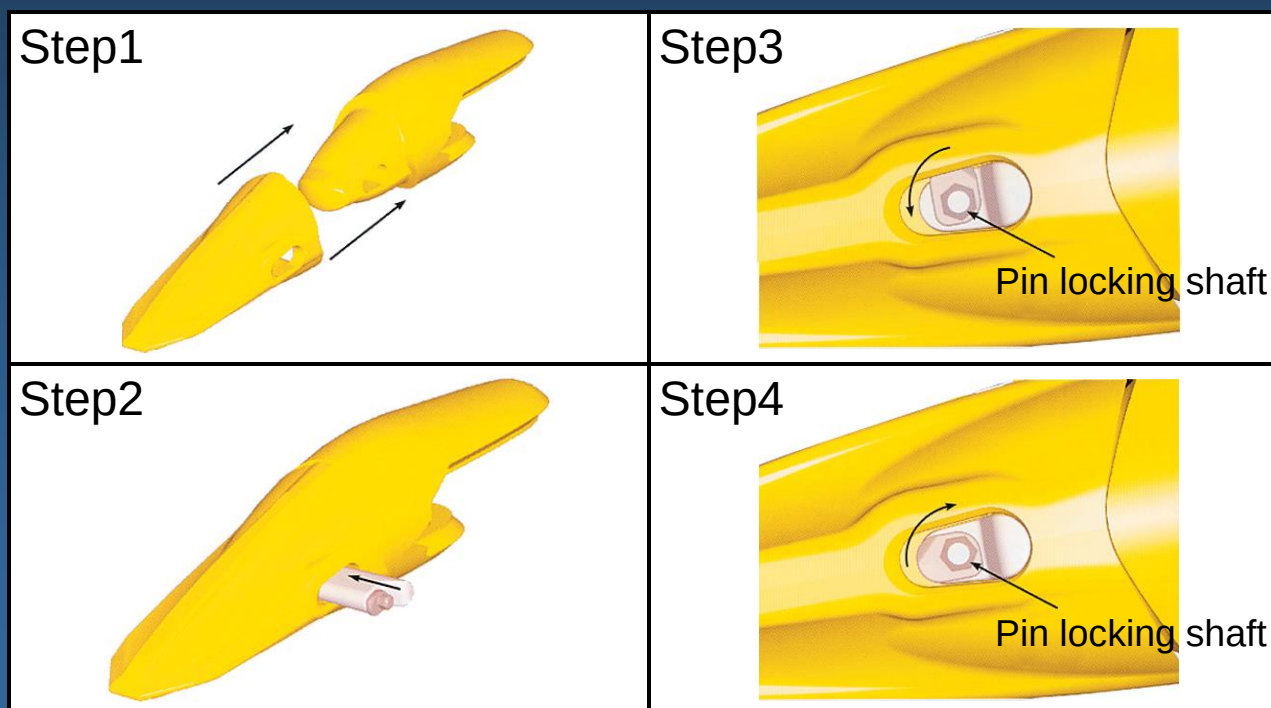


RELIABILITY AND DURABILITY FEATURES [No.2]

★ Wear-resistant, strengthened quarry bucket (KMAX bucket) (New) (2/2)

KMAX Tooth

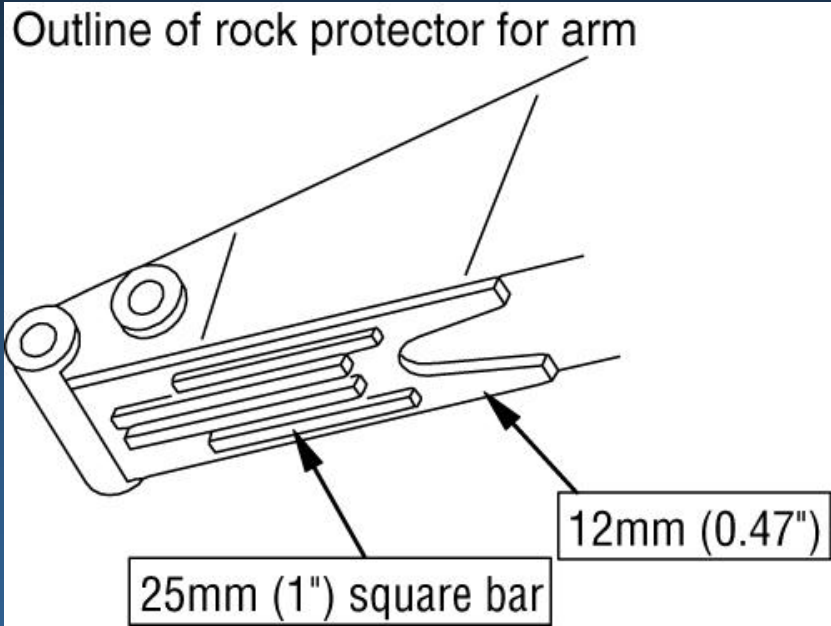
- Unique bucket tooth shape offers superior digging performance
- Long-term high sharpness
- Great penetration performance
- Hammerless, safe, and easy tooth replacement
(Tooth replacement time: Halves the conventional machine.)



RELIABILITY AND DURABILITY FEATURES [No.3]

★ **Arm with rock protector**
(PC850-8R: Standard) (PC800-8R: Not available)

A 12mm (0.47") steel plate + 25mm (1") square bar rock protector is installed to the bottom plate of the arm.

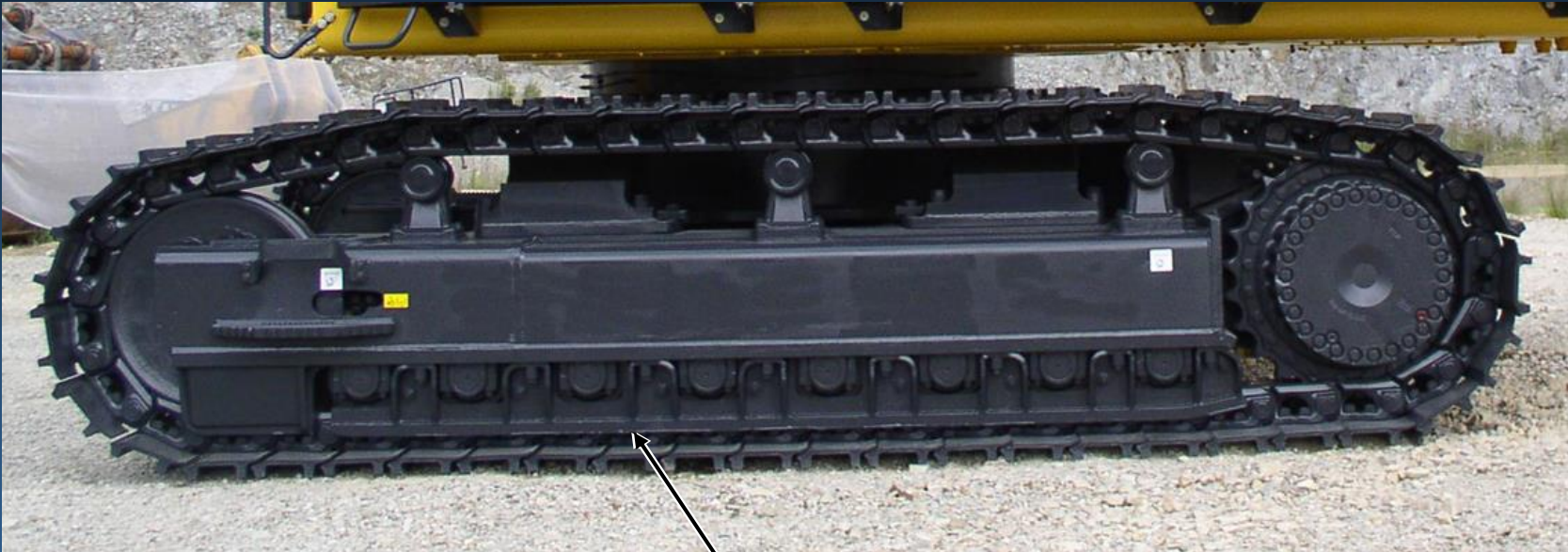


Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Rock protector for arm		N/A/STD	N/A/STD	N/A/STD	Not available

RELIABILITY AND DURABILITY FEATURES [No.4]

Guards and protectors to prevent undercarriage damage (1/2)

★ Full length roller guard (optional)



Full length roller guard (option)

Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C GMX/GMG
Full length roller guard		Optional/STD	Optional/STD	Optional/STD	Optional/STD

RELIABILITY AND DURABILITY FEATURES [No.5]

Guards and protectors to prevent undercarriage damage (2/2)

★ Rock protector

PC800 can be equipped with rock protectors which protect the travel motor.

Rock protector



Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C GMX/GMG
Rock protector		Equipped	Equipped	Not available	Not available

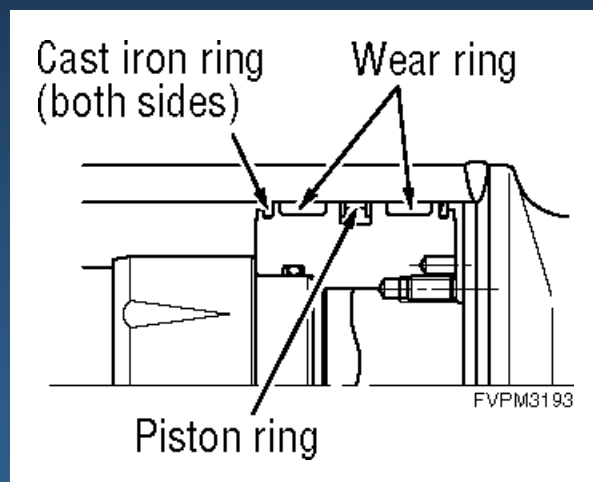
RELIABILITY AND DURABILITY FEATURES [No.6]

Clean and reliable hydraulic circuit

- ★ • High-pressure in-line filters
- ★ • Hydraulic cylinder with metal ring to prevent seizure
- ★ • O-ring face seal
- ★ • Metal guard ring



In-line filter



Piston



O-ring face seal

Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
In-line filter		Equipped	Equipped	INA	Equipped
Metal guard ring		Equipped	Equipped	INA	INA
O-ring face seal		Equipped	Equipped	INA	Equipped

RELIABILITY AND DURABILITY FEATURES [No.7]

★ Fuel pre-filter with water separator (New)

Increased reliability of the fuel system by the removal of contaminants



Fuel pre-filter
(With water separator function)

RELIABILITY AND DURABILITY FEATURES [No.8]

★ Additional fuel main-filter for improved fuel reliability (New)

The fuel reliability is improved by installing additional main-filter working against poor fuel.



Additional fuel main-filter

RELIABILITY AND DURABILITY FEATURES [No.9]

★ Additional water separator (New)

Water separator removes water from the fuel.

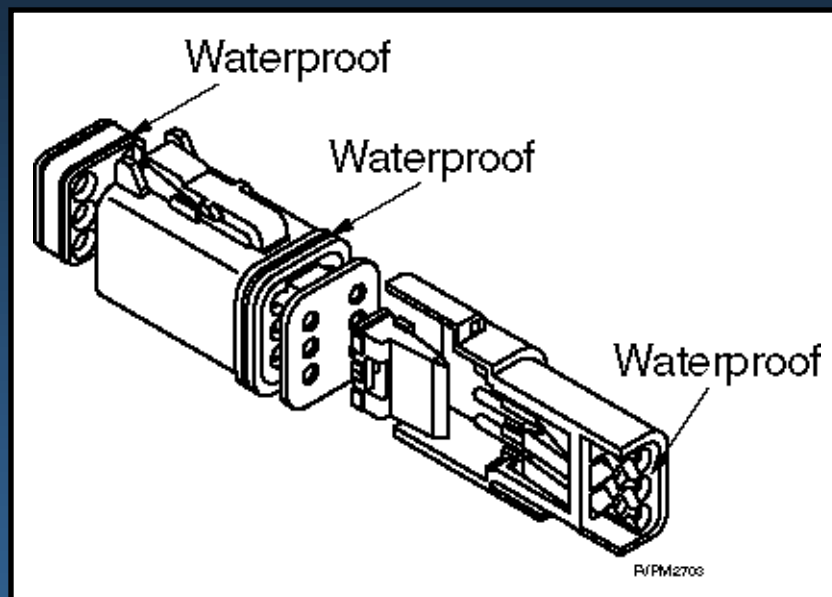


Water separator

RELIABILITY AND DURABILITY FEATURES [No.10]

Highly reliable electric circuit

- ★ DT-type connector
- ★ Heat-resistant wires
- ★ Circuit breaker



DT connector



Circuit breaker

Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
DT-type connector		Equipped	Equipped	INA	Equipped
Heat-resistant wires		Equipped	Equipped	INA	Equipped
Circuit breaker		Equipped	Equipped	INA	Equipped

COMFORTABLE OPERATOR'S ENVIRONMENT

[No.1]

★ Large cab -- meets ISO standard



Standard cab (PC800-8R)



Lower wiper
(optional)

Flashing light
(optional)

Optional quarry cab (PC850-8R)

Remark: The optional quarry cab in the photo at right is equipped with the lower wiper, flashing light, and fixed one-piece window glass.

Model			Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Item						
Volume		m ³ (yd ³)	2.67 (3.49)	2.67 (3.49)	2.67 (3.5)	2.60 (3.4)
Out side dimensions	Width	mm (ft.in)	990 (3'3")	990 (3'3")	1005 (3'4")	1000 (3'3")
	Length	mm (ft.in)	1800 (5'11")	1800 (5'11")	1820 (5'9")	1850 (5'9")
	Height	mm (ft.in)	1665 (5'11")	1665 (5'11")	INA	1690 (5'7")

COMFORTABLE OPERATOR'S ENVIRONMENT

[No.2]

★ Adjustable operator seat

The large cab enables full flat reclining of the seat back with headrest.

- Spacious foot space
- Fore-and-aft seat adjustment:
340 mm (13.4")



Item		Model	Komatsu PC800/850-8R	Komatsu PC750/800-7
Seat sliding travel	mm (in)		160 (6.3")	160 (6.3")
Console sliding travel	mm (in)		180 (7.1")	180 (7.1")
Distance from travel control lever to seat position	mm (in)		922 (36.2")	922 (36.2")

COMFORTABLE OPERATOR'S ENVIRONMENT

[No.3]

★ See-through skylight for better upward visibility

The optional quarry cab of PC800 is also equipped with a see-through skylight for better upper view. In addition, a sliding sunshade is installed as standard to block-out direct sunlight.

The standard cab of PC800 is equipped with a openable skylight.



Standard openable skylight

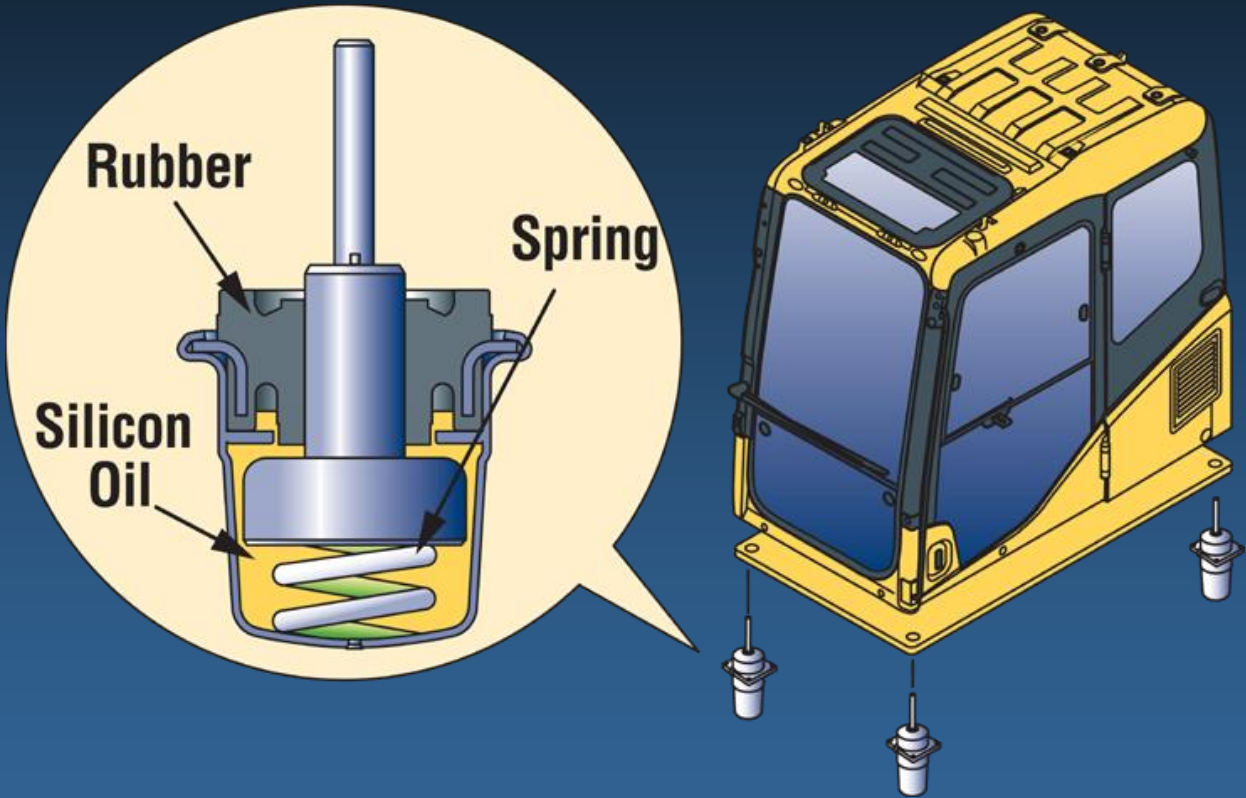


Skylight for optional quarry cab

COMFORTABLE OPERATOR'S ENVIRONMENT

[No.4]

★ Cab damper mounting to lower noise and vibration



Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Cab mount		Cab damper type	Cab damper type	Single-layer viscous	Single-layer viscous

COMFORTABLE OPERATOR'S ENVIRONMENT

[No.5]

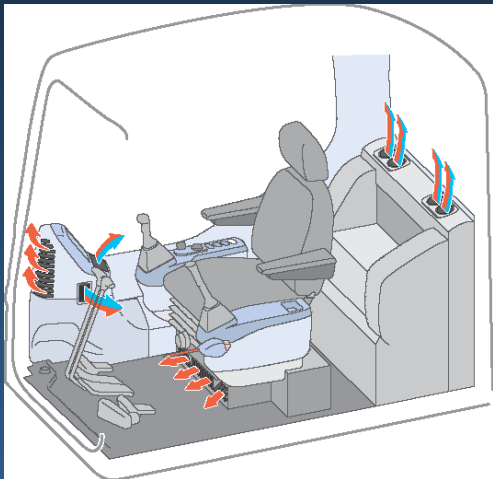
★ Large-capacity air conditioner (Optional)

Pressurized cab with optional air conditioner

- With defrost function for better visibility
- Equipped with hot/cool box



Defroster



Hot and cool box

Comparison of air conditioner

Model		Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Item					
Type	–	Full-auto	Full-auto	Full-auto	Full-auto
Cooling capacity	kcal/h	6900	6900	4700	5000
Heating capacity	kcal/h	6500	6500	6000	6000
Pressurized value	mmAq (inAq)	6.0 (0.2)/ 10 (0.39)*	6.0 (0.2)/ 10 (0.39)*	INA	INA

*: Optional quarry cab

COMFORTABLE OPERATOR'S ENVIRONMENT

[No.6]

★ Washable floor mat

The flanged floor mat is employed so that the inside of the cab can be washed with water. Since the floor inclines gently toward the door of the cab, water is drained easily. Additional water can be drained off through the draining holes at the front part of the floor under the mat.

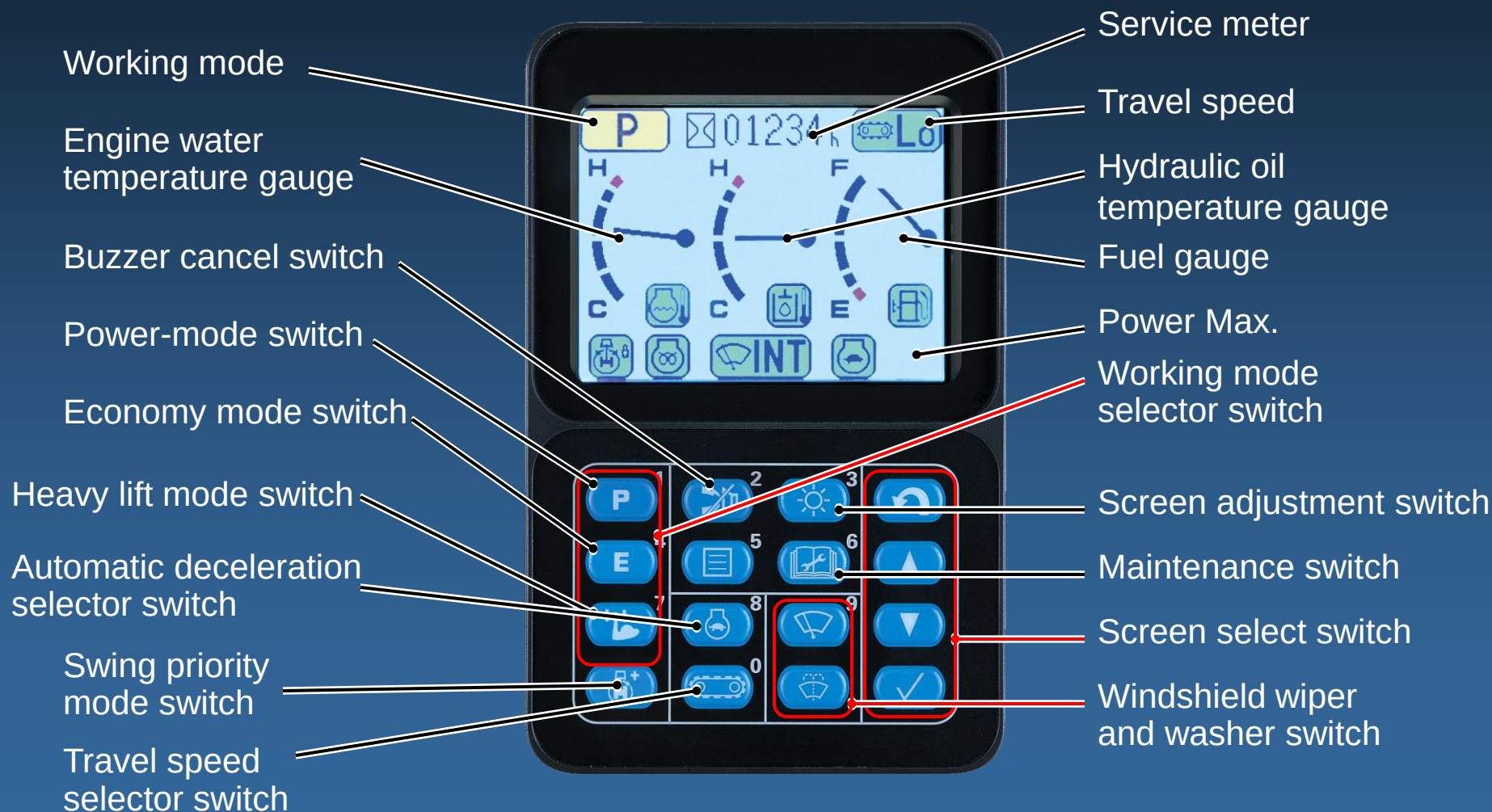


COMFORTABLE OPERATOR'S ENVIRONMENT

[No.7]

★ Multi-function color monitor (1/2)

Color graphic LCD (Liquid Crystal Display) screen



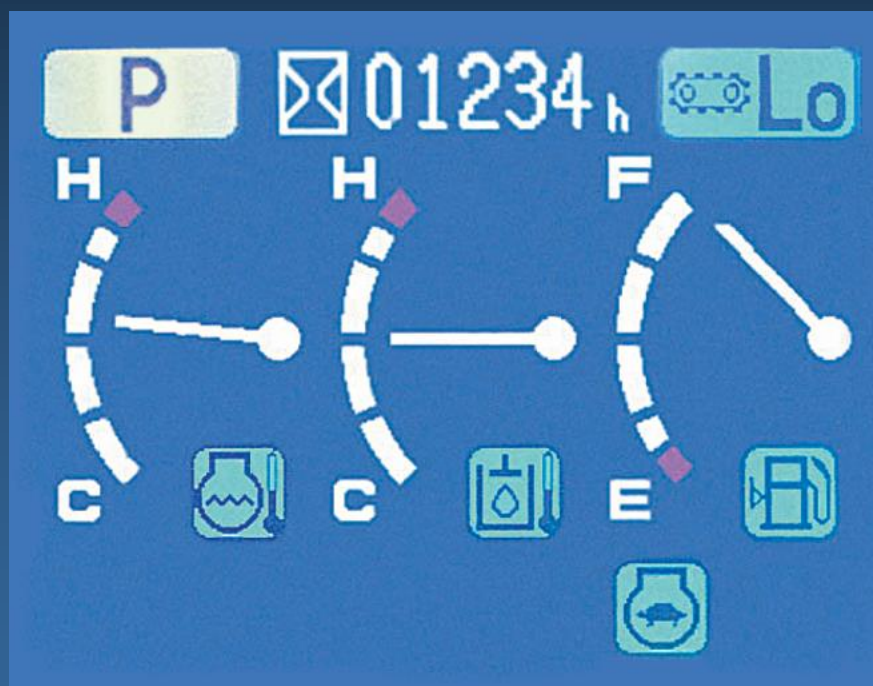
COMFORTABLE OPERATOR'S ENVIRONMENT

[No.8]

★ Multi-function color monitor (2/2)

Monitor provides excellent visibility even in bright sunlight.

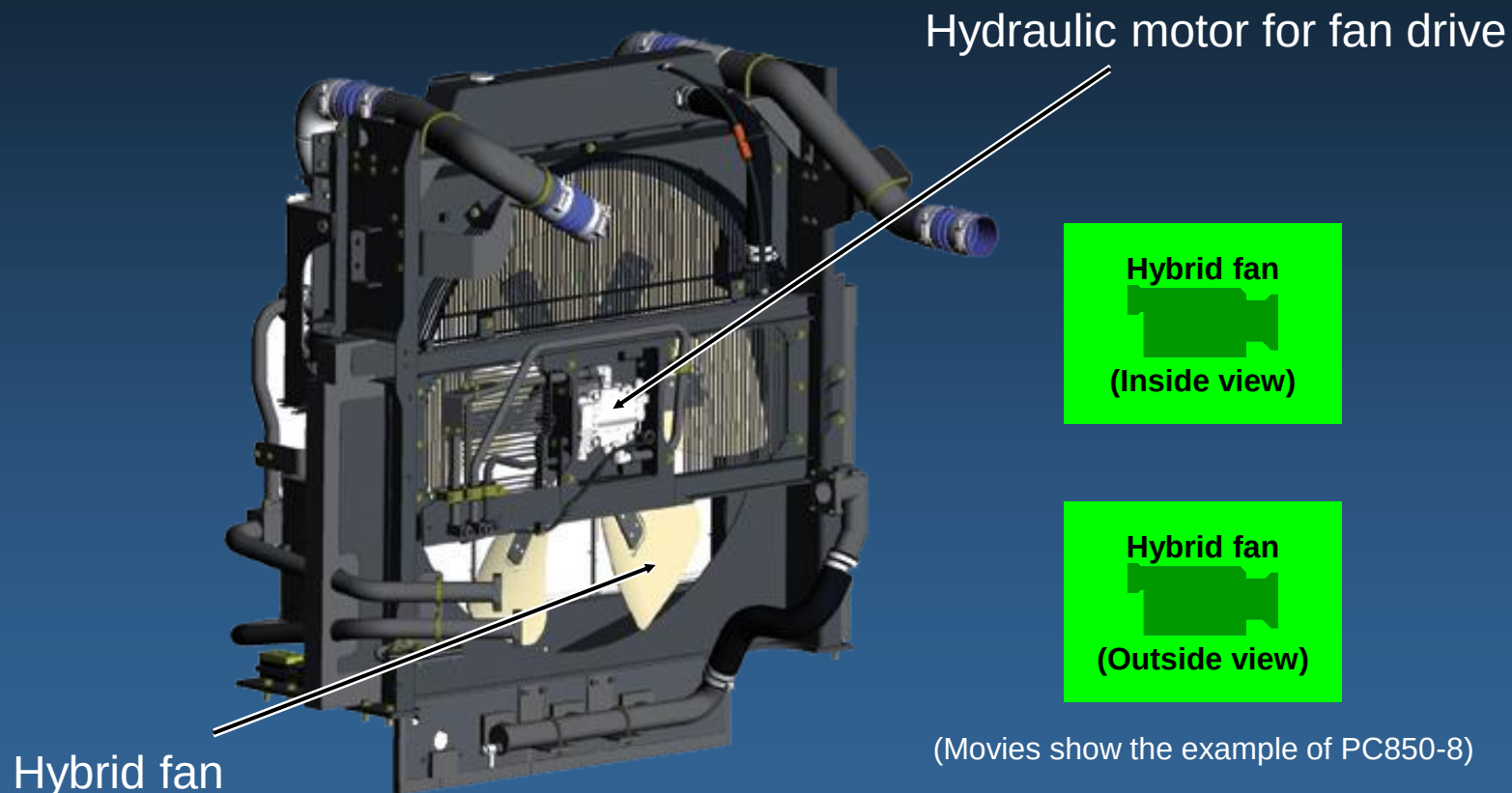
The display color is switched for the nighttime work so that it can be visually identified with a little light amount, with the background color reversed in blue.



Display under nighttime work (Working light switch is turned ON.)

EASY MAINTENANCE [No.1]

★ Easy to clean radiator with reversible hydraulic fan (New)



EASY MAINTENANCE [No.2]

★ Concentrated engine check points

Locations of the engine oil check and filters are integrated into one side to allow easy maintenance and service.



EASY MAINTENANCE [No.3]

★ Wide catwalk



Item	Model		Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Catwalk width		mm (in)	500(19.7")	500(19.7")	510(20")	450(17.7")

EASY MAINTENANCE [No.4]

★ Large size tool box and grease pail space

Large grease pail holding space and large tool box are provided on the machine body. These provide a convenience in holding a grease pail and a tool box.

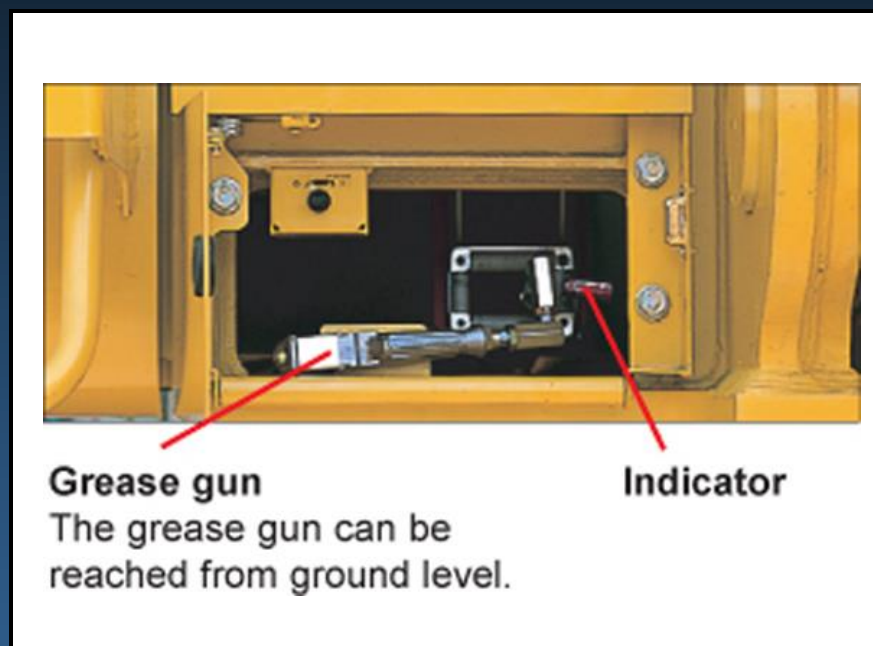


large tool box

EASY MAINTENANCE [No.5]

★Electric-operated greasing type with indicator

Lubrication indicator confirms greasing is being performed.

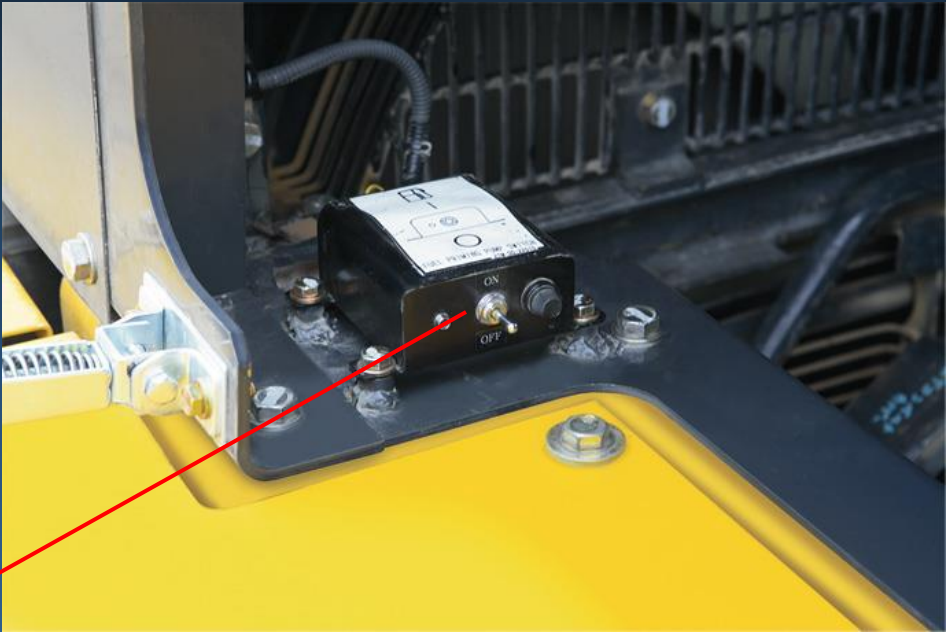


Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Type of grease pump		Electric drive with indicator	Electric drive with indicator	Electric drive	Electric drive

EASY MAINTENANCE [No.6]

★ Electric priming pump

When fuel filters are replaced, recharging of the fuel system can be performed in a short time and easily.



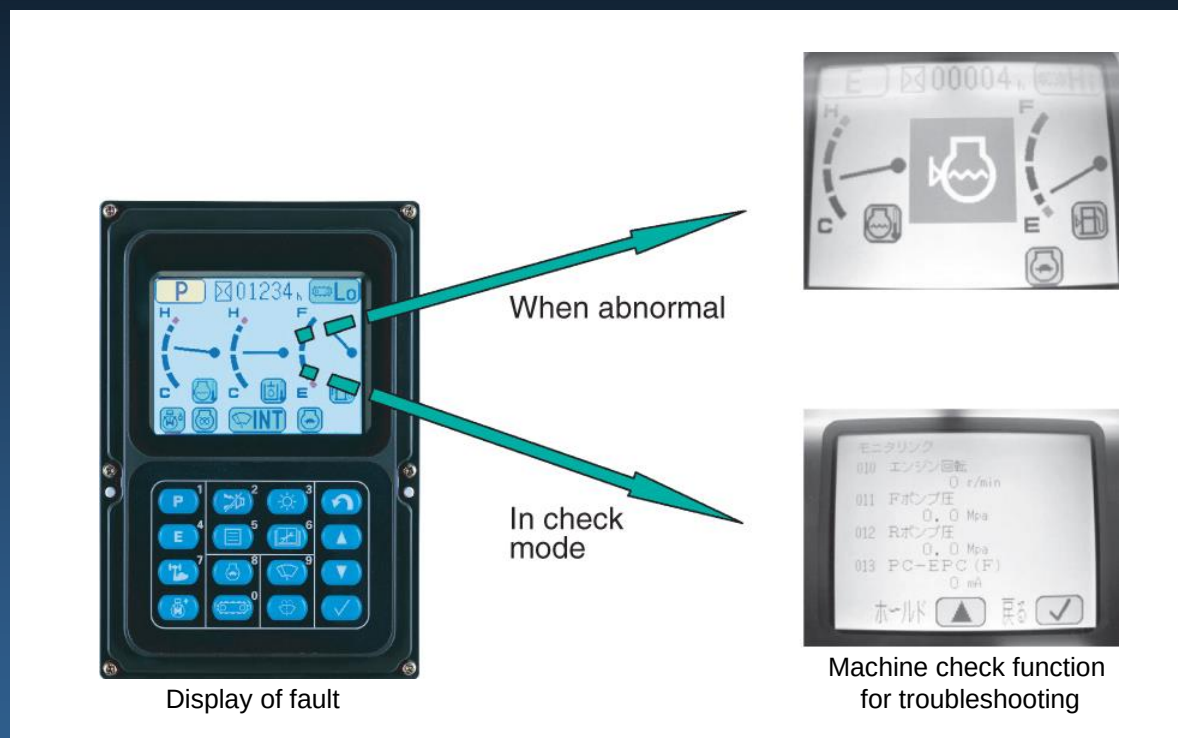
Electric priming pump switch

Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Type of priming pump		Electric	Manual	INA	INA

EASY MAINTENANCE [No.7]

★EMMS (Equipment Management Monitoring System) (1/2)

Display of faults and function of checking machine condition

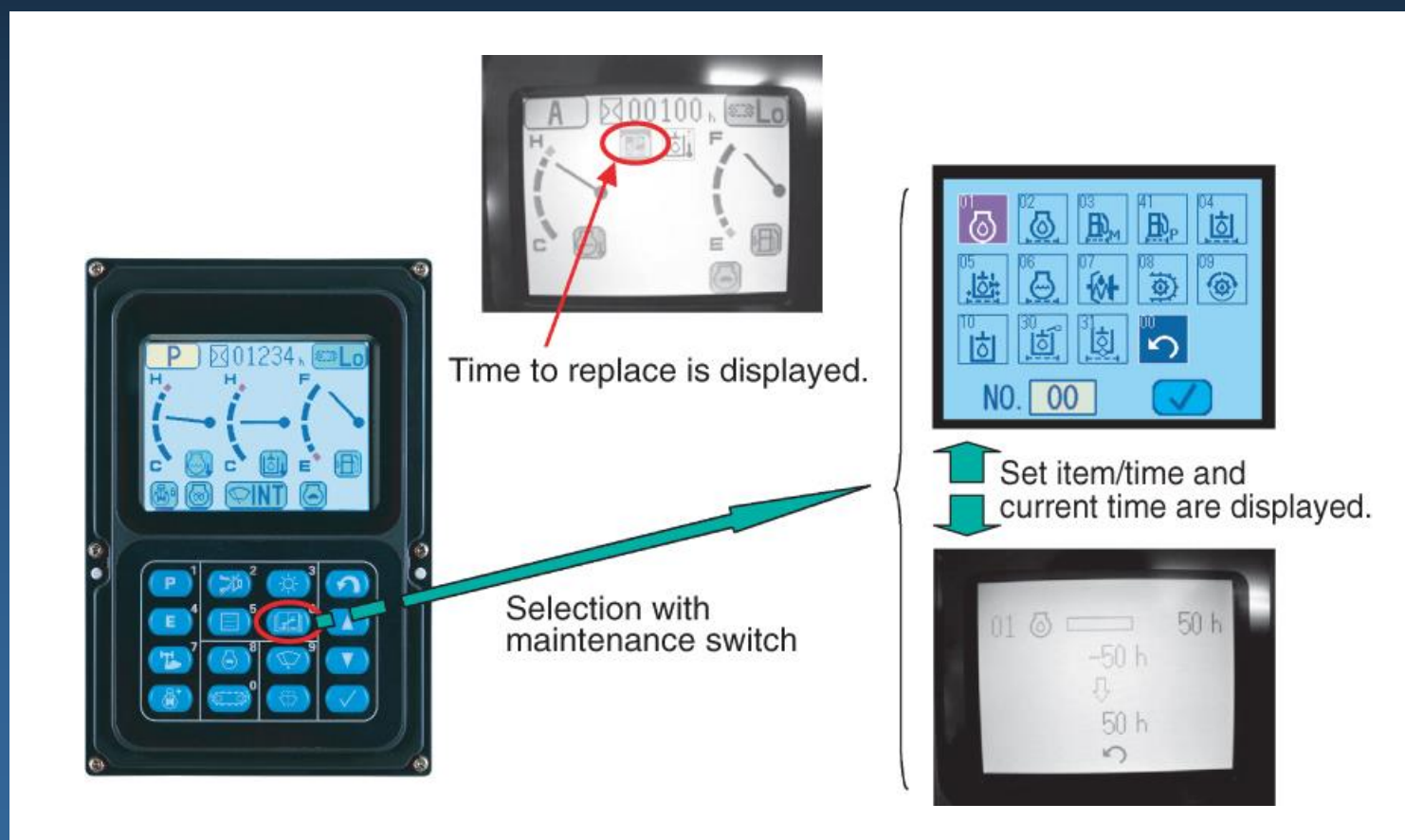


Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Display function abnormal condition		Equipped	Equipped	INA	Equipped
Analyzing function of abnormal condition		Equipped	Equipped	INA	Equipped
Maintenance (Filter & oil change interval)		Equipped	Equipped	Equipped	Equipped
Trouble history memory function		Equipped	Equipped	INA	Equipped

EASY MAINTENANCE [No.8]

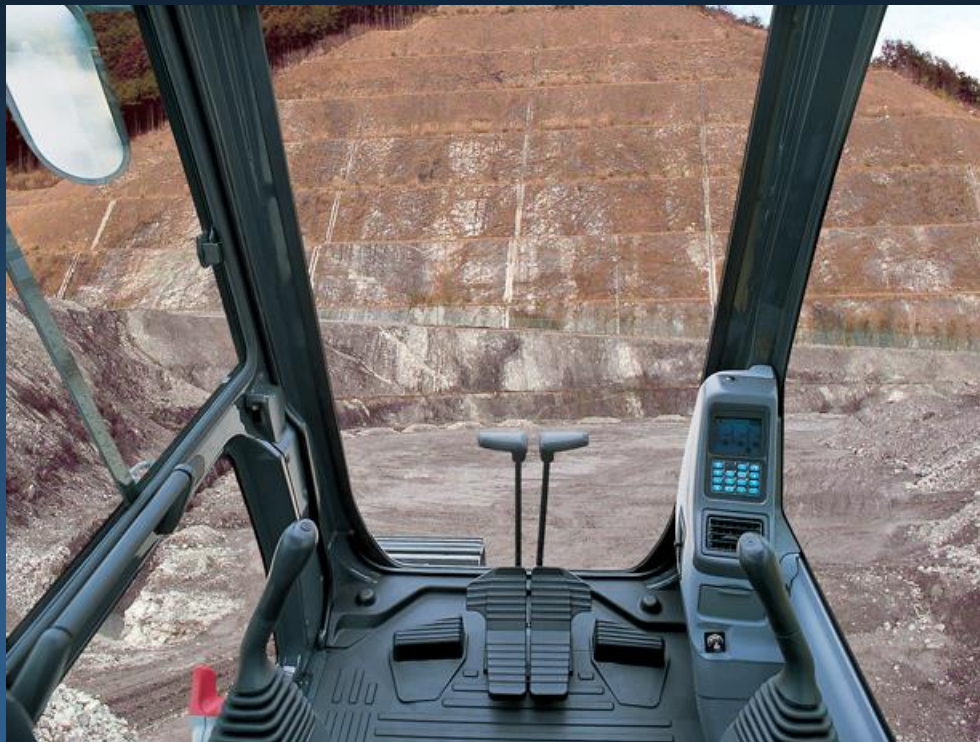
★EMMS (Equipment Management Monitoring System) (2/2)

- Maintenance function
- Maintenance history data memory function
- Trouble data memory function



SAFETY FEATURES [No.1]

★ Super wide visibility



Quarry cab

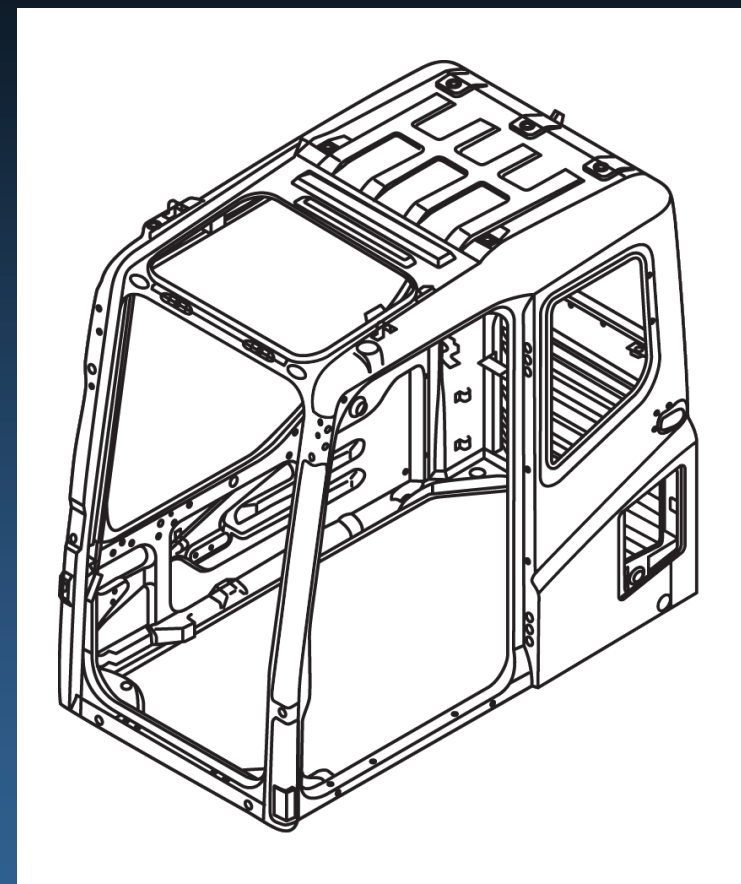
SAFETY FEATURES [No.2]

Operator safety design (1/2)

★ Strengthened fully pressed cab

The newly designed, fully pressed, and reinforced cab is manufactured by solid press forming process to attain an ideal strong frame structure having high rigidity.

Optional quarry cab has capability to comply OPG top guard level 2 (FOG) with bolt-on top guard.



★ Retractable seat-belt (optional)

The retractable seat belt is out of the way of operation when not used.

SAFETY FEATURES [No.3]

Operator safety design (2/2)

★ OPG top guard (optional)

OPG top guard is an available option for quarry cab only.

OPG top guard



SAFETY FEATURES [No.4]

★ Global safety design -- meets USA, EU and Japan standards

Optional quarry cab has capability for OPG top guard level 2 compliance with optional bolt-on top guard

Tempered green glass

The front glass is tempered green glass having high strength. It also blocks out ultraviolet rays.

Lock lever

This lever locks hydraulic system to prevent accidental operation. Since the engine neutral start system is utilized, the engine can start only when the lock lever is at the LOCK position.

Retractable-type seat belt

The convenient retractable seat belt holds the operator's body securely. (Optional)

Large-sized handrail

The operator can get on and off the machine safely.

Fan guard and thermal guard

These guards prevent the operator from touching a hot part or the fan during inspection of the engine.

★ Anti-slip plate

Prevents operator from slipping during inspection, etc.

Oil splash prevention wall (Fire wall)

If a hydraulic leak occurs, the bulkhead between the pump compartment and engine compartment prevents the oil from spraying over the hot parts.

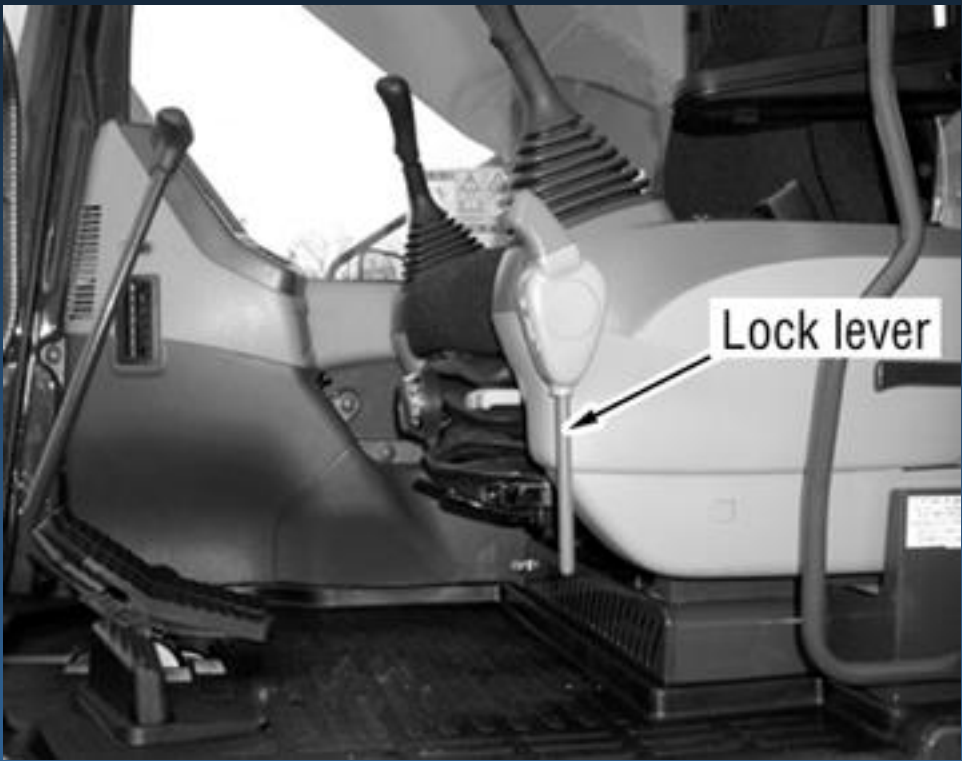
Catwalk

The surface is improved to prevent operator from slipping for higher safety.



SAFETY FEATURES [No.5]

★ Neutral start with PPC lock solenoid valve



Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Engine neutral start		Equipped	Equipped	Equipped	Equipped

SAFETY FEATURES [No.6]

★ Step light with timer

The step light lights up for approx. 1 minute to allow the operator to get off the machine safely even at night. The light goes out automatically.

Step light



Step light switch

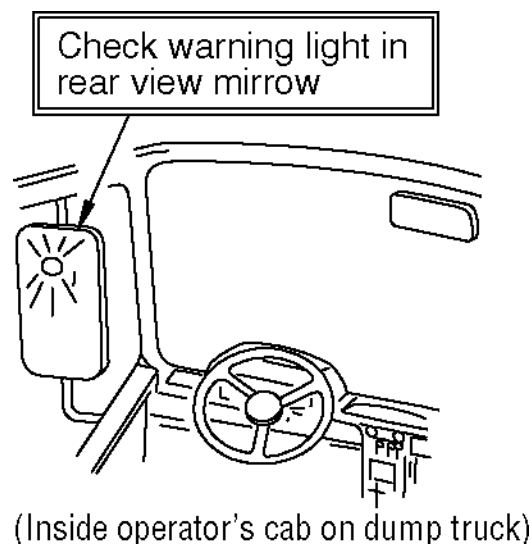


Item	Model	Komatsu PC800/850-8R	Komatsu PC750/800-7	Hitachi ZX850/870H-3	CAT 385C
Step light with timer		Available	Available	Not available	Not available

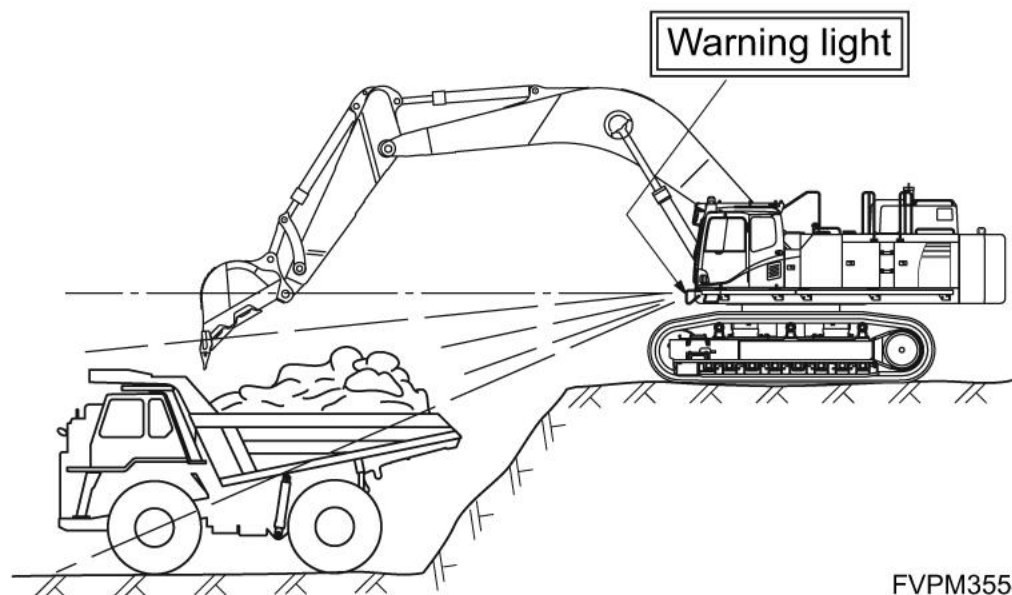
SAFETY FEATURES [No.7]

★ Warning light interconnected with horn (Optional)

Possible to signal dump truck operator with warning light even if horn cannot be heard. (Warning light flashes for approx. 5 seconds when horn is sounded.)



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FVPM3554A

SAFETY FEATURES [No.8]

★ Anti-slip plates (New)

The spiked type anti-slip plate made of steel maintains a function of non-slip for a long term without deterioration.



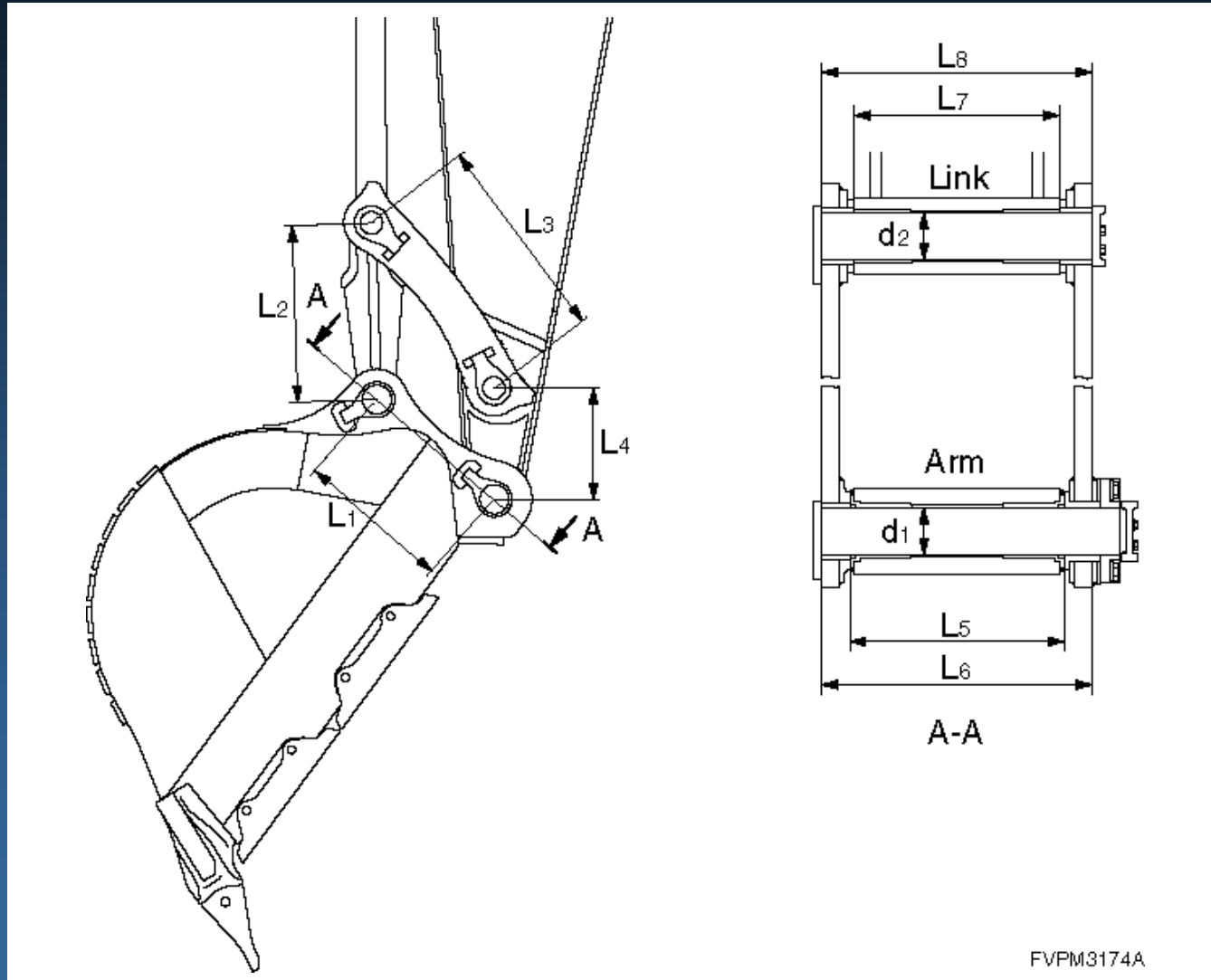
ATTACHMENTS & OPTIONAL EQUIPMENT [No.1]

- **Interchangeability of bucket**

The buckets of PC800-7 and PC800-8R are interchangeable.

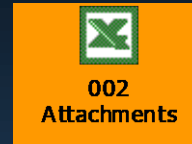


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Attachments



ATTACHMENTS & OPTIONAL EQUIPMENT [No.2]

- Combination of work equipment and working range



- **Additional counterweight [11850 kg (26,120 lb)]**

An additional counterweight is available to increase the lifting capacity.

Note: This additional counterweight is for increasing the lifting capacity. Accordingly, after installing it, do not use the machine for severe work in a quarry, etc.

INTERCHANGEABILITY [No.1]



Interchangeability between PC800-8R and PC750-7

Unit (1/3)

Name	Interchangeability	Reason for non-interchangeability
Engine assembly	Not interchangeable	Changed engine from SAA6D140-3 to SAA6D140E-5. Additional fuel main-filter
Fan	Not interchangeable	Electronically controlled hydraulic driven fan is adopted. Steel fan 1280 mm (4'2") in diameter to Hybrid fan 1400 mm (4'7") in diameter
Fuel tank	Not interchangeable	Fuel tank capacity is increased from 880 ltr (232 U.S. gal) to 980 ltr (259 U.S. gal) and anti-slip plate is added.
Cooling assembly	Not interchangeable	Aluminium made core used.
Swing circle	Interchangeable	
Swing machinery	Interchangeable	
Final drive, sprocket	Interchangeable	
Idler	Interchangeable	
Idler cushion assembly	Interchangeable	
Track roller, carrier roller	Interchangeable	
Center frame	Interchangeable	
Crawler frame	Not interchangeable	Crawler frame of PC850 quarry specification machine is reinforced at stepladder portion. Interchangeable by reinforcing the stepladder portion.
Track shoes	Interchangeable	
PTO	Not interchangeable	Changed to direct coupling type due to the installation of HPV375 pump.
Revolving frame	Not interchangeable	Changed due to the installation of the engine and HPV375 pump.
Counterweight	Not interchangeable	The thickness is increased by 100 mm (3.9") [Tail swing radius: 4300 mm (14'1") to 4400 mm (14'5")]

INTERCHANGEABILITY [No.2]



Interchangeability between PC800-8R and PC750-7

Unit (2/3)

Name	Interchangeability	Reason for non-interchangeability
Cab	Not interchangeable	The same cab as that of PC400-7 is adopted.
Air conditioner	Not interchangeable	Air conditioner common to that for PC400-7 is adopted.
Operator's seat	Interchangeable	
Monitor	Not interchangeable	Monitor corresponding to Cummins controller is adopted.
Controller, engine control	Not interchangeable	Cummins engine controller is installed. Hydraulic driven fan control is added.
Pump controller	Not interchangeable	Changed to meet the electronic OLSS.
Solenoid valve	Not interchangeable	Valve models are changed.
Main pump assembly	Not interchangeable	Pump model is changed (HPV95 + 95 x 2 to HPV375 + 375). LPV90 fan pump, a self pressure reducing valve and a gear pump for lubrication are installed.
Pilot pump	Not interchangeable	Abolished due to the adoption of a self-pressure reducing valve.
Control valve assembly	Not interchangeable	Changed to meet the electronic OLSS (Differential pressure sensor <- limit switch)
Swing motor	Interchangeable	
Travel motor	Interchangeable	
Center swivel	Interchangeable	
Hydraulic tank	Not interchangeable	Changed due to the adoption of HPV375 pump.
Quick return valve	Not interchangeable	Newly added.
PPC valve for work equipment	Not interchangeable	Second step pressure is changed.

INTERCHANGEABILITY [No.3]



Interchangeability between PC800-8R and PC750-7

Unit (3/3)

Name	Interchangeability	Reason for non-interchangeability
PPC valve for travel	Not interchangeable	Damper structure is simplified. Opening pattern of the pressure reducing valve is changed.
Hydraulic driven fan motor	Not interchangeable	Newly added.
Boom cylinder	Not interchangeable	Changed for quality improvement. Interchangeable in the case of unit exchange including piping and clamps.
Arm cylinder	Not interchangeable	Changed for quality improvement. Interchangeable in the case of unit exchange including piping and clamps.
Bucket cylinder	Not interchangeable	Rod diameter is increased.
Boom assembly	Not interchangeable	Quick return circuit is added. Greasing piping and front lights are changed.
Arm assembly	Not interchangeable	Greasing piping is changed.
Bucket assembly	Interchangeable	Bucket tooth is changed to KMAX tooth.

INTERCHANGEABILITY [No.4]



Interchangeability between PC800-8R and PC750-7 Consumable parts

Name	Interchangeability	Reason for non-interchangeability
Engine oil filter	Interchangeable	Interchangeable except that the number of filters is changed from 1 to 2.
Hydraulic oil return filter	Interchangeable*1	Strengthened.
Pilot filter	Not interchangeable	High performance filter is installed corresponding to the electronic OLSS.
Flushing filter	Interchangeable	
Fuel filter	Not interchangeable	Fuel main-filter is added.
Fuel pre-filter	Interchangeable	
Air cleaner element	Interchangeable	
Hydraulic hose	Not interchangeable	Interchangeable except hoses connecting to newly added fan pump and quick return circuit.
Bucket tooth	Not interchangeable	Changed to the KMAX tooth
Tooth adapter	Not interchangeable	Changed to the KMAX tooth adapter
Side shroud	Interchangeable	
Side cutter	Interchangeable	

TRANSPORTATION GUIDE [No.1]

Posture for transportation

Backhoe

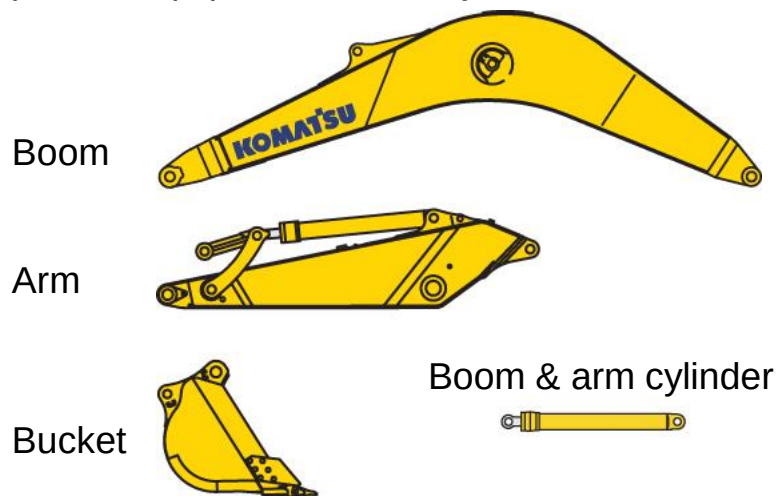
Four-part transportation



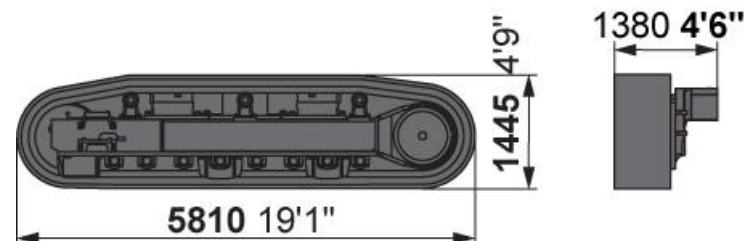
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Transportation

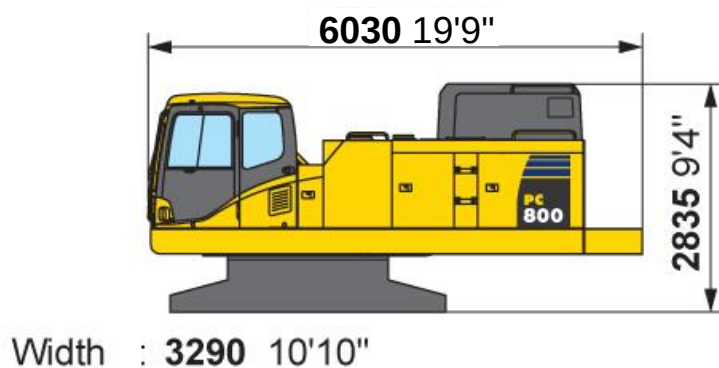
(1) Work equipment assembly



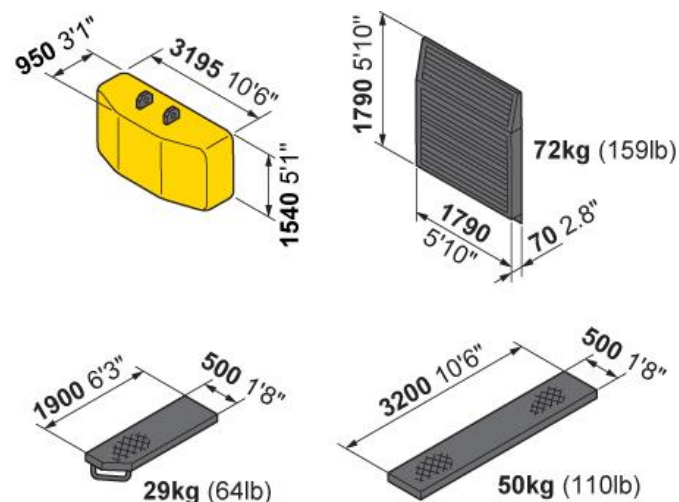
(3) Undercarriage



(2) Upper structure



(4) Others



TRANSPORTATION GUIDE [No.2]

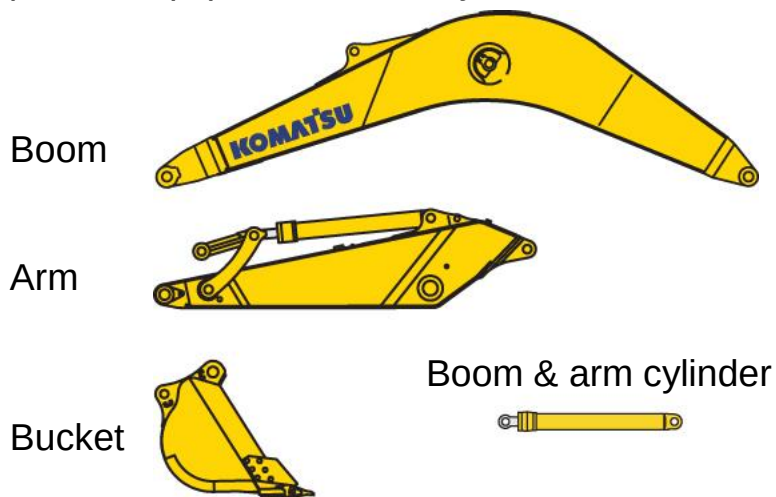
Posture for transportation

Backhoe

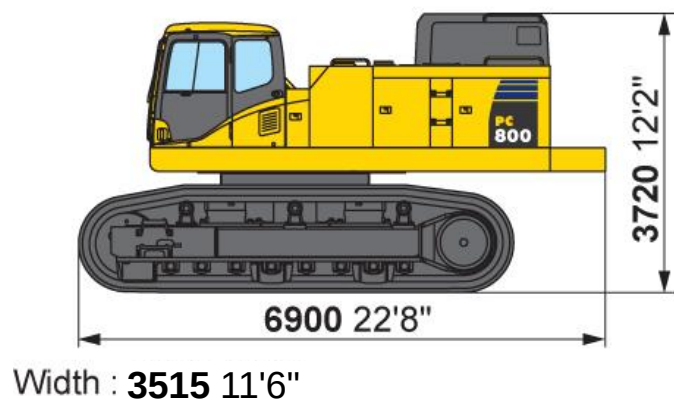
Three-part transportation



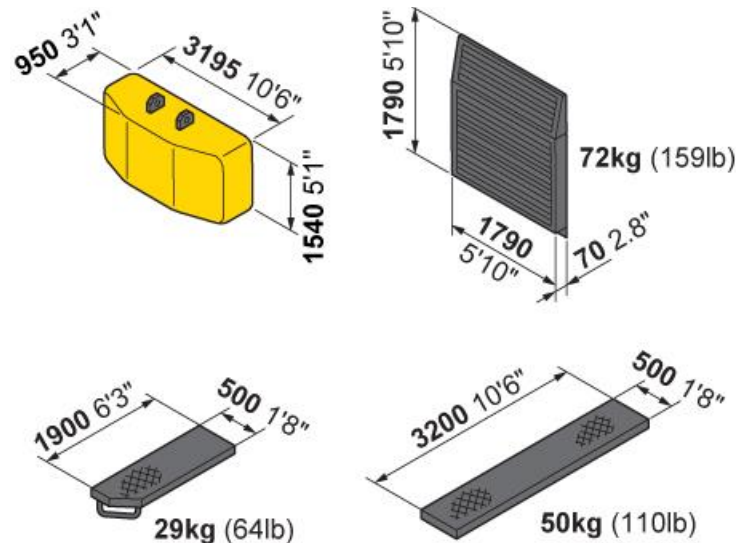
(1) Work equipment assembly



(2) Base machine



(3) Others

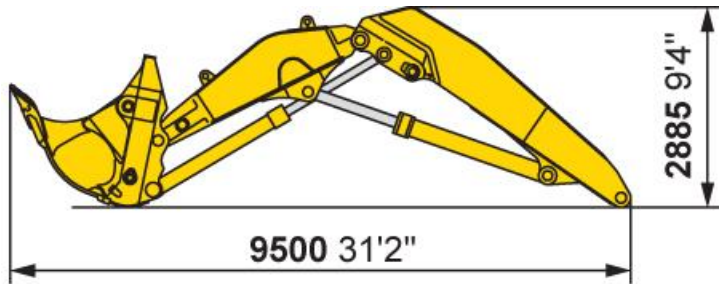


TRANSPORTATION GUIDE [No.3]

Posture for transportation

Loading shovel

(1) Work equipment assembly



Width : 2320 (7'7")

Weight : 19.6 t (21.6 U.S.ton)

COMPETITIVE SPECIFICATIONS



Comparative
Specification PC800/85

KOMATSU