KOMATSU®

PC350LC-7

PC
350

FLYWHEEL HORSEPOWER
Net: 242 HP 180 kW @ 1900 RPM

OPERATING WEIGHT
34,500 kg (76,060 lb)

BUCKET CAPACITY
1.4 m^3 (SAE)

Photos may include optional equipment.

TOUGH MACHINE FOR TOUGHER APPLICATIONS

Heavy-Duty Boom

Granite Bucket

KOMTRAX

Information and Communication Technology

- KOMTRAX™ website to optimise your maintenance planning and fleet management
- Large Multi-lingual High Resolution Liquid Crystal Display (LCD) Monitor

Unmatched Productivity

- Powered by heavy duty Komatsu SAA6D114E-2 diesel engine
- Active mode for fast cycle times & higher production
- Advanced CLSS hydraulics for fine control and quick working speeds
- Two Boom Setting: Smooth & Power modes can be toggled to change the operation depending on the application

Productivity, Ecology & Economy

- High Production and Low Fuel Consumption by Total Control of the Engine, Hydraulic and Electronic System
- Low Emission Engine and Low Operation Noise
- Large Drawbar Pull and Digging Force
- Two-mode Setting for Boom

Comfort & Safety

- Cabin top guard provides protection to the operator and machine cabin from falling objects.
- Front guard with mesh protects the operator from smaller objects.
- Two additional lamps mounted on top of the cabin facilitates better lighting
- Rear View Monitor System (Optional)

Maintenance & Reliability

- Easy Maintenance
- High Rigidity Work Equipment

Strengthened revolving frame
Additional Protection
for tough Granite
Marble & Stone
Applications

30% Stronger
(compared to PC300 Mighty)
HD undercarriage with double flange rollers

HORSEPOWER	: 242 HP 180 kW @ 1900 RPM
OPERATING WEIGHT	: 34,500 kg (76 060 lb)
BUCKET CAPACITY	: 1.4 m^3 (SAE)

PRODUCTIVITY

High Production and Low Fuel Consumption

The increased output and fuel savings of the Komatsu SAA6D114E-2 engine result in increased production and improved production per unit of fuel.

Engine

The PC350LC-7 gets its exceptional power and work capacity from a Komatsu SAA6D114E-2 engine. Output is 180 kW 242 HP, providing increased hydraulic power and improved fuel efficiency.

Hydraulics

Unique two-pump system ensures smooth compound movement of the work equipment. HydrauMind controls both pumps for efficient engine power use. This system also reduces hydraulic loss during operation.

Hydraulic Pump Oil Flow Adjustment

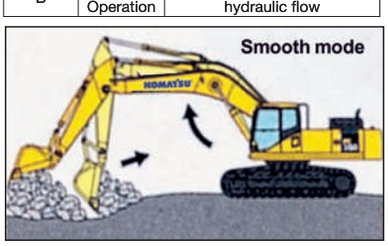
When installing attachment (breaker, crusher, etc.) and B, A or E mode is selected, it is possible to adjust engine and hydraulic pump discharge flow to match attachment characteristics.

Three Working Modes

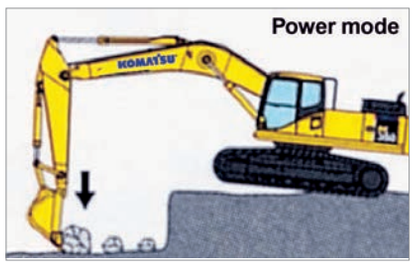
Working Mode Selection

The PC350LC-7 excavator is equipped with three working modes (A, E and B mode). Each mode is designed to match engine speed, pump speed, and system pressure with the current application. This provides the flexibility to match equipment performance to the job at hand.

Working Mode	Application	Advantage
A	Active Mode	Maximum production/power Fast Cycle times
E	Economy Mode	Excellent Fuel Economy
B	Breaker Operation	Optimum engine rpm, hydraulic flow



Boom floats upward, reduced lifting of machine front. This facilitates gathering blasted rock and scraping down operations.

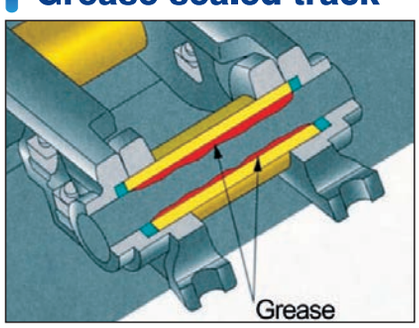


Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.

Reliable Components

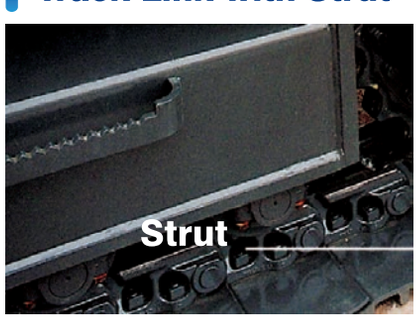
All the major machine components, such as engine, hydraulic pumps, hydraulic motors and control valves are exclusively designed and manufactured by Komatsu.

Grease sealed track



Komatsu PC350LC-7 uses grease sealed tracks for extended undercarriage life.

Track Link with Strut



Komatsu PC350LC-7 uses track links with strut providing superb durability.

Highly Reliable Electronic Devices

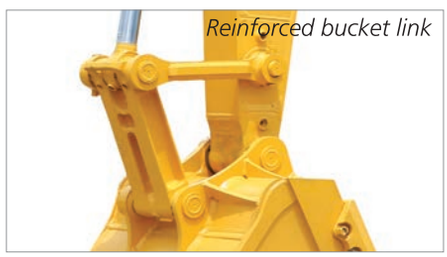
Exclusively designed electronic devices have passed severe testing.

- Controller
- Sensors
- Connectors
- Heat resistant wiring
- Metal guard rings protect all the hydraulic cylinders and improve reliability.

Excellent reliability durability

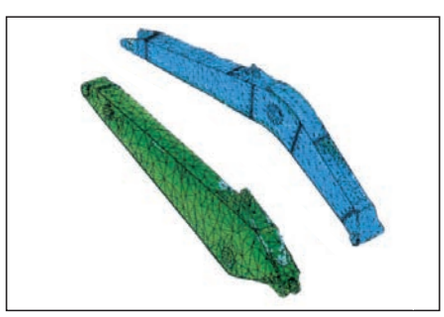
Reinforced Work Equipment

The boom and bucket link are strengthened for improved durability in hard site working conditions.



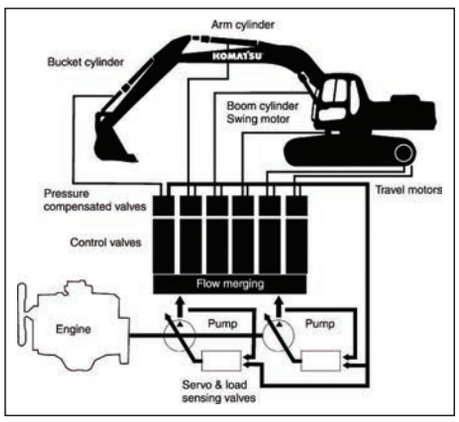
Sturdy frame Structure

The revolving frame, center frame and undercarriage are designed by using the most advanced three-dimensional CAD and FEM analysis technology.



ADVANCED HYDRAULICS

What is HydrauMind?



It's a technologically complex yet mechanically simple system which supervises the work operations of the excavator. Its strength lies in its simplicity.

The system incorporates many major breakthroughs and has earned Komatsu almost 200 patents.

What are the benefits of the HydrauMind?

Power, versatility, maneuverability, controllability – you name it. Never has an excavator been so easy to operate, so natural, so intuitive. In a sense, you don't really operate it at all, you wear it.

For example, when the ground condition changes in digging...

You don't have to think about changing your lever strokes because the HydrauMind instantly, silently, automatically sends just the right amount of oil to the actuators at just the right pressure to accommodate the change.

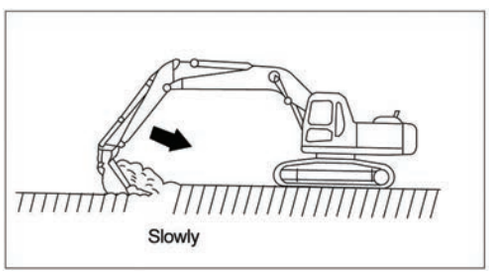
When you move the boom, arm and bucket at the same time...

All the equipment works organically with the optimum combination of speed and power as if it were a human hand.

The HydrauMind also makes it easy to change or add valves and work equipment. Moreover, because the system is hydraulic and not electronic, it ensures the best service availability in the industry.

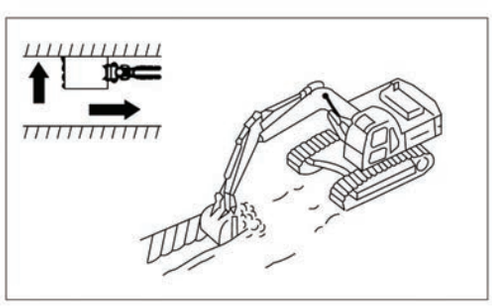
The HydrauMind system makes everything easier

It is easier to fully load the buckets.



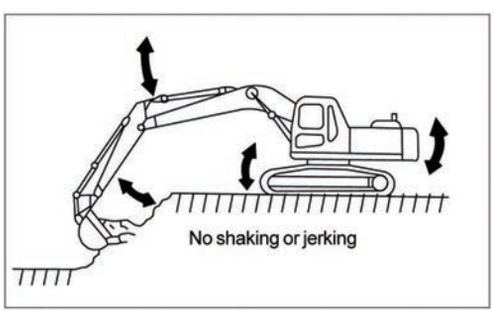
During simultaneous operations, the work equipment moves slowly at maximum power, without being influenced by the other actuators, so it is easy to fully load the bucket.

It is easier to carry out digging work along the face of walls



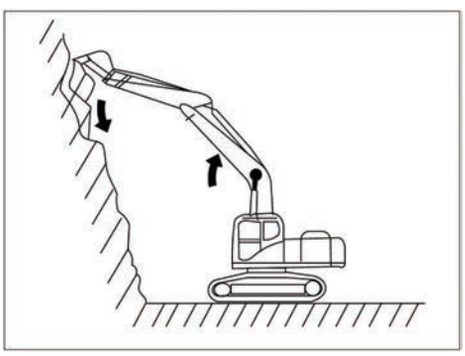
Lateral power pushing is powerful, allowing digging operation to be carried out efficiently

The machine can carry out operations easily without any undue chassis vibration



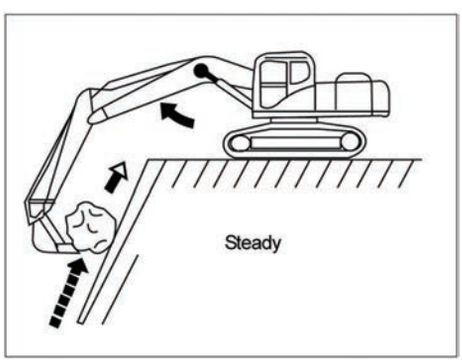
During simultaneous operations, there is no change in the work equipment speed caused by change in load. Thus, there is minimal chassis vibration.

It is easy to scrape down



Even without operating the lever to the maximum position, maximum digging power can be obtained, making it possible to carry out slow control.

It is easy to dig soft rock or dig up boulders



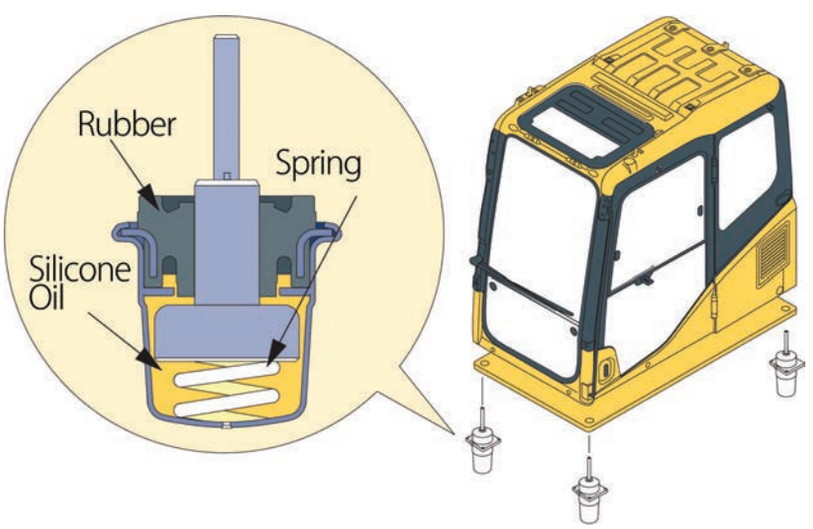
It is easy to control the boom RAISE, so the cutting edge does not deviate from the boulders

Spacious Cab

The cabin is spacious and air-cooled. An ergonomically-designed operator's seat and easy access to all control levers ensure maximum operator comfort and better concentration on the job.

Low Vibration with Cab Damper Mounting

Komatsu PC350LC-7 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck aids vibration reduction at the operator's seat.



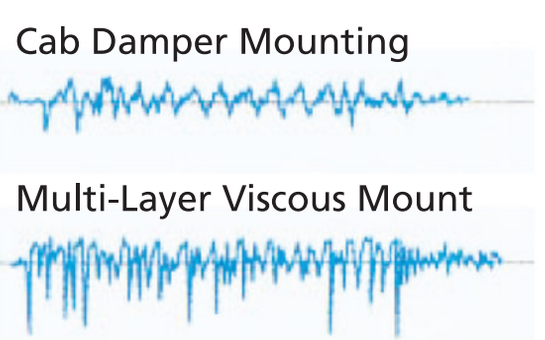
Adjustable seat and control levers

The suspension seat slides forward and backward together with the work equipment control levers to ensure the best operating position at all times.

Lock Lever

Locks the hydraulic pressure to prevent unintentional movement. Neutral start function only allows machine to be started in lock position.

Comparison of Riding Comfort



SAFETY

Pump/Engine Room Partition

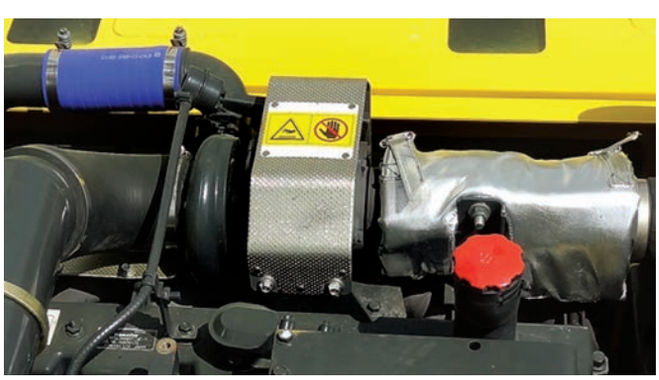
Prevents oil from spraying on the engine if a hydraulic hose bursts.

Large Handrail

The large handrail with a provision to mount rear-view mirror, supports easy climbing.

Protective Guards

Thermal guard placed around high temperature parts of the engine provides adequate protection against accidental contacts, while the fan guard wards off impending hazards.



Anti-Skid Pads

Steps with anti-skid pads provide safe grip while climbing on the machine for maintenance work.

MAINTENANCE

Self-Diagnostic Monitor

Komatsu PC350LC-7 features an advanced diagnostics system. The Komatsu exclusive system identifies maintenance items, reduces diagnostic times, indicates oil and filter replacement hours and displays error codes.

Continuous Machine Monitoring System

When turning starting switch ON, check-before-starting item and caution items appear on the liquid crystal panel. If abnormalities are found, a warning lamp blinks and a warning buzzer sounds. The continuous machine condition checks help prevent the development of serious problems and allows the operator to concentrate on the controls.

Abnormalities on Electronic System Display with Code

When an error occurs during operation, a user code is displayed. When an important user code is displayed, a caution lamp blinks and a warning buzzer sounds to prevent the development of serious problems.

Oil Maintenance Function

When machine exceeds oil or filter replacement time, oil maintenance monitor lights up to inform operator.

A. Engine Water Temperature
B. Battery Charge
C. Engine Oil Pressure
D. Air Cleaner Clogging Monitor
E. Auto-Decel Switch
F. Travel Speed Select Switch
G. Working Mode Select Switch
H. Fuel Lever Monitor
I. User or Trouble Code Display
J. Service Meter Display
K. Engine Oil Level
L. Engine Preheat
M. Swing Lock Display
N. Oil Maintenance

RELIABILITY

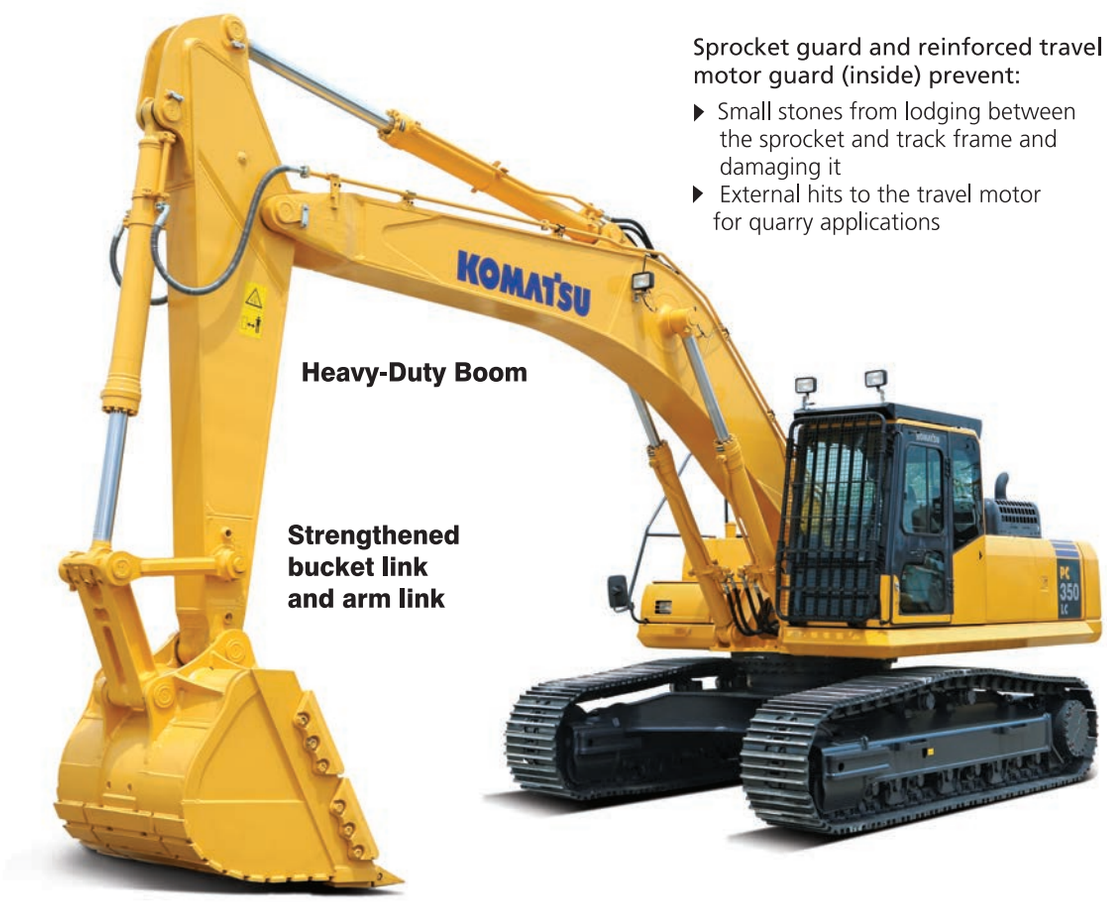
The PC350-7 is a specially designed heavy-duty machine. The PC350-7 has strengthened work equipment and various machine body parts for use in severe job sites such as quarry and gravel gathering, etc.

Cab with two-piece pull-up window

Deck guard

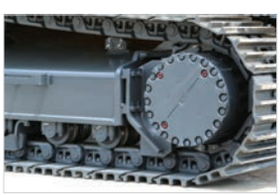
Additional work lamps

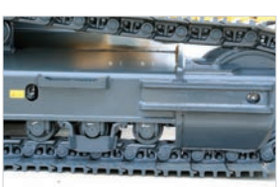
Front mesh guard



Sprocket guard and reinforced travel motor guard (inside) prevent:

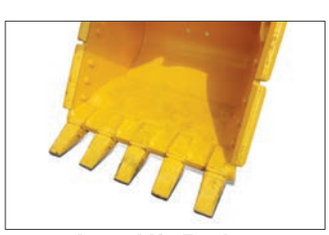
- Small stones from lodging between the sprocket and track frame and damaging it
- External hits to the travel motor for quarry applications



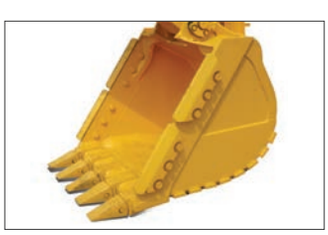


Idler track reinforcement prevents the idler guide from opening and subsequently damaging the track component

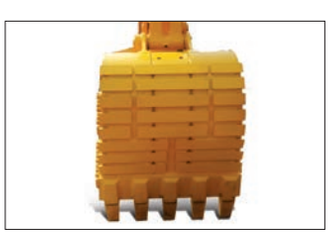
Heavy duty triple grouser track shoes have higher plate thickness and weight and are specially meant for quarry applications



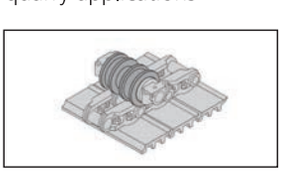
Long Life Bucket Teeth Lip Shrouds



Side Reinforcement plate



Bottom Wear Plate



Double-flange roller guides track link correctly and extends life of undercarriage.

ICT & KOMTRAX

KOMTRAX™ is a revolutionary machine tracking system designed to save your time and money. You can now monitor your equipment anytime and anywhere. Use valuable machine data received via the KOMTRAX™ website to optimise your maintenance planning and fleet management.

KOMTRAX™ assists you with:

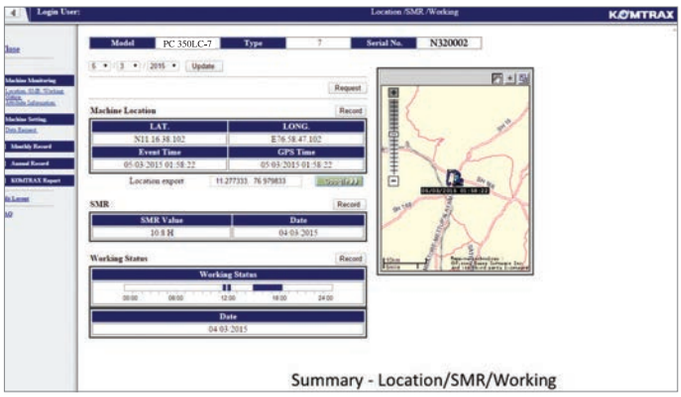
- **Full machine monitoring**
  Get detailed operation data to know when your machines are used
- **Total fleet management**
  Keep track of the location of your machines at all times and discourage unauthorized usage
- **Easy access to machine information**
  Machine working details can be easily obtained from anywhere using internet facility

Monitor your machine from anywhere, anytime for complete peace of mind!

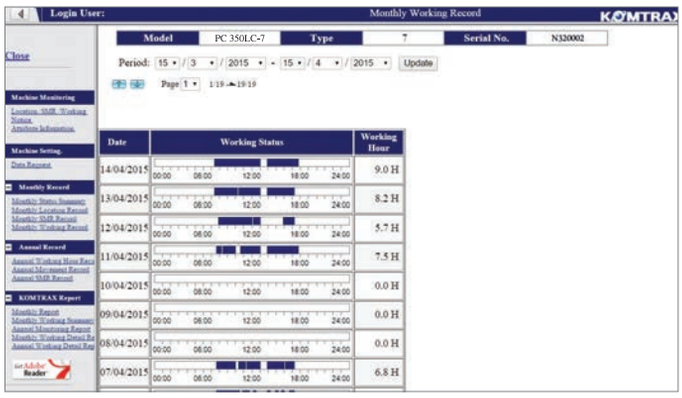
Data communication using GPRS signal

Identify location using GPS satellite

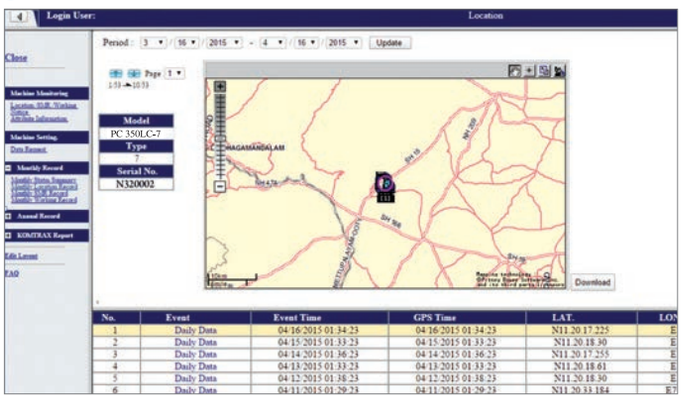
Summary – Location / SMR / Working



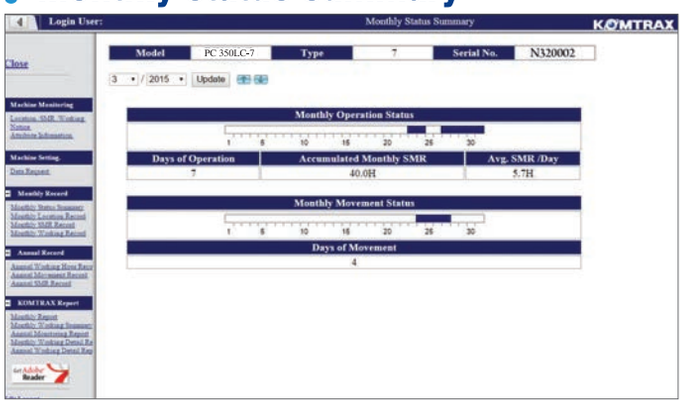
Working hour record



Machine location record



Monthly status summary



Komatsu Genuine Attachment Tool

Komatsu recommends a wide range of attachment tools for Hydraulic Excavators provided to suit customer's specific applications.

Hydraulic Breaker

Hydraulic Breaker is an attachment tool used for crushing rock beds, paved surfaces and demolishing concrete structures, etc. The large gas chamber, ideal gas pressure ratio and long-stroke piston deliver a powerful impact force. Since the breaker unit does not require an accumulator, the number of parts has been reduced, resulting in lower maintenance costs.

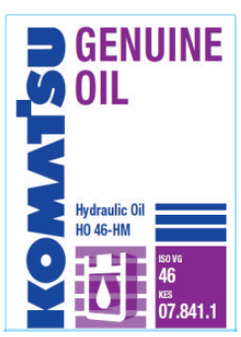
Komatsu Breakers deliver high impact force with every blow thus, an ideal choice for primary and second breaking.

Model type		JTHB350-3
Working weight	kg	2790
Oil flow	l/min	180~230
Operating pressure	MPa	13~18
Impact rate	bpm	350~450
Chisel diameter	mm	ø146

- Accumulator-free design
- High Impact Energy
- High Reliability & Durability
- Low Operating Cost

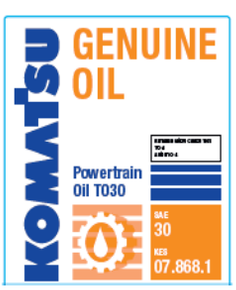
Komatsu Genuine Oil

Hydraulic Oil (HO46-HM)



- Maintains and enhances the efficiency of the hydraulic system through high performance properties such as water separation, air release, antifoam characteristics, cleanliness and filterability
- Excellent wear protection delivered via zinc-based anti-wear additives
- Superior protection against rust and copper corrosion

Powertrain Oil (TO30)



- Excellent protection of gears, bearings
- Very high thermal and oxidation stability
- Highly consistent and reliable friction performance which ensures minimum clutch slippage, smooth and quiet brake operation and trouble free transmission operation.

New Diesel Engine Oil (15W-40 DH1)

- New 15W-40 DH1 Diesel Engine oil meets API CI4 Specifications
- Introducing all new high grade premium oil in India.

SPECIFICATIONS

ENGINE

Model . . . . . Komatsu **SAA6D114E-2**
Type . . . . . Water-cooled, 4-cycle, direct injection
Aspiration . . . . . Turbocharged, aftercooled
Number of cylinders 6
Bore . . . . . 114 mm 4.49”
Stroke . . . . . 135 mm 5.31”
Piston displacement . . . . . **8.27 ltr** 505 in^3
Flywheel Horse Power:
SAE J1349 . . . . . **242 HP** 180 kW @ 1900 rpm
DIN6270 . . . . . **245 PS** 180 kW @ 1900 rpm
Rated rpm . . . . . 1850 rpm
Governor . . . . . All-speed control, mechanical

Meets 2001 EPA, EU, and Japan Tier-II emission regulations.

HYDRAULICS

Type ..... **HydrauMind** (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves
Number of selectable working modes 3
Main Pump:
Type ..... Variable displacement piston type Pumps supplying to Boom, arm, bucket, swing, and travel circuits
Maximum flow ..... **535 ltr/min** 141 U.S. gal/min
Supply for control circuit ..... Self-reducing valve
Hydraulic motors:
Travel ..... 2 x axial piston motor with parking brake
Swing ..... 1 x axial piston motor with swing holding brake
Relief valve setting:
Implement circuits ..... **37.3 MPa** 380 kgf/cm^2 5,400 psi
Travel circuit ..... **37.3 MPa** 380 kgf/cm^2 5,400 psi
Swing circuit ..... **27.9 MPa** 285 kgf/cm^2 4,050 psi
Pilot circuit ..... **3.2 MPa** 33 kgf/cm^2 470 psi
Hydraulic cylinders:
(No of cylinders – bore x stroke x rod diameter)
Boom ..... 2 – 140 mm x 1480 mm x 100 mm
Arm ..... 1 – 160 mm x 1825 mm x 110 mm
Bucket ..... for 3.19 m ..... 1 – 140 mm x 1285 mm x 100 mm
..... for 2.22 m ..... 1 – 150 mm x 1285 mm x 110 mm

DRIVES AND BRAKES

Steering control ..... Two levers with pedals
Drive method ..... Hydrostatic
Maximum drawbar pull ..... **264 kN**, 26900 kgf, 59,300 lb
Gradeability ..... 70%, 35°
Maximum travel speed: High ..... **5.5 km/h** 3.4 mph
(Auto-Shift) Low ..... **3.2 km/h** 2.0 mph
Service brake ..... Hydraulic lock
Parking brake ..... Mechanical disc brake

SWING SYSTEM

Drive method ..... Hydrostatic
Swing reduction ..... Planetary gear
Swing circle lubrication ..... Grease-bathed
Service brake ..... Hydraulic lock
Holding brake/Swing lock ..... Mechanical disc brake
Swing speed ..... 9.5 rpm

UNDERCARRIAGE

Center frame ..... X-frame
Track frame ..... Box-section
Seal of track ..... Sealed track
Track adjuster ..... Hydraulic
Number of shoes (each side) 48
Number of carrier rollers ..... 2 each side
Number of track rollers (each side) 8

COOLANT AND LUBRICANT

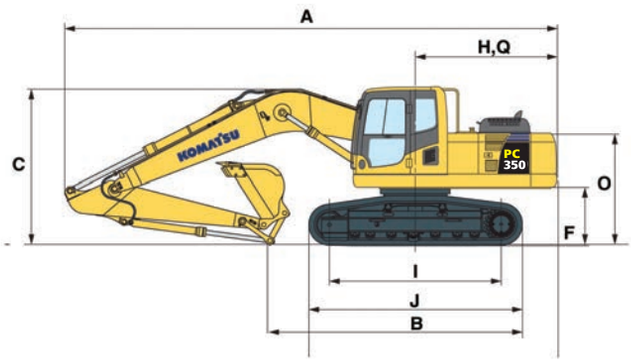
Fuel tank ..... **605 ltr** 160 U.S. gal
Coolant ..... **32.0 ltr** 8.5 U.S. gal
Engine ..... **35.0 ltr** 9.2 U.S. gal
Final drive, each side ..... **8.5 ltr** 2.2 U.S. gal
Swing drive ..... **13.4 ltr** 3.5 U.S. gal
Hydraulic tank ..... **188 ltr** 49.7 U.S. gal

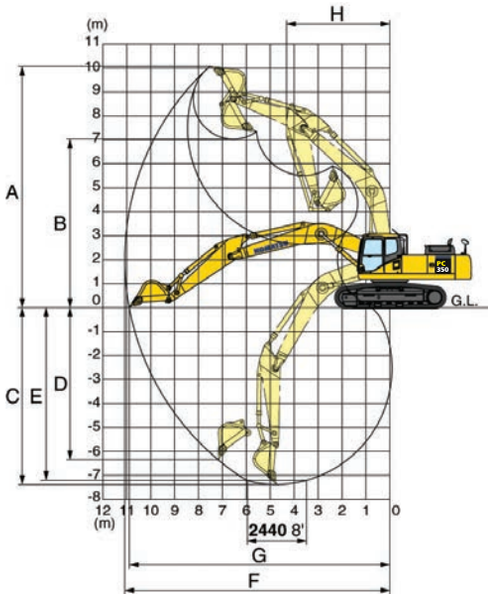
OPERATING WEIGHT

Operating weight includes standard equipment, 6470 mm 21'3" one-piece boom, 3185 mm 125.4" arm, SAE heaped 1.4 m^3 1.83 yd^3 bucket, fully filled lubricants, coolants, hydraulic oil, fuel with functional operator.

Komatsu PC350LC-7		
Shoes	**Operating Weight**	**Ground Pressure**
600 mm 23.5"	34,500 kg 76,060 lb	67.7 kPa 0.69 kgf/cm^2 9.81psi

DIMENSIONS AND WORKING RANGE





	Arm Length	3185 mm	10'5"
A	Overall length	11245 mm	36'11"
B	Length on ground (transport)	5930 mm	19'5"
C	Overall height (to top of boom)	3280 mm	10'9"
D	Overall width	3190 mm	10'6"
E	Overall height (to top of cab)	3130 mm	10'3"
F	Ground clearance, counterweight	1185 mm	3'11"
G	Ground clearance (minimum)	500 mm	1'8"
H	Tail swing radius	3555 mm	11'8"
I	Track length on ground	4030 mm	13'3"
J	Track length	4955 mm	16'3"
K	Track gauge	2590 mm	8'6"
L	Width of crawler	3190 mm	10'6"
M	Shoe width	600 mm	23'6"
N	Grouser height	36 mm	1'4"
O	Machine cab height	2580 mm	8'6"
P	Machine cab width	2995 mm	9'10"
Q	Distance, swing center to rear end	3510 mm	11'6"

	Arm	3185 mm	10'5"	2550 mm	8'6"
A	Max digging height	10080 mm	33'1"	9970 mm	32'8"
B	Max dumping height	7350 mm	24'1"	7220 mm	23'8"
C	Max digging depth	7380 mm	24'3"	6740 mm	22'1"
D	Max vertical wall digging depth	6200 mm	20'4"	5730 mm	18'9"
E	Max digging depth of cut for 8' level	7130 mm	23'5"	6540 mm	21'6"
F	Max digging reach	11080 mm	36'4"	10550 mm	34'7"
G	Max digging reach at ground level	10890 mm	35'9"	10350 mm	33'11"
H	Min swing radius	4330 mm	14'3"	4470 mm	14'8"
SAE rating	Bucket digging force at power max	200 kN 20,400 kgf/44,970 lb		200 kN 20,400 kgf/44,970 lb	
SAE rating	Arm crowd force at power max	165 kN 16,800 kgf/37,040 lb		165 kN 16,800 kgf/37,040 lb	
ISO rating	Bucket digging force at power max	228 kN 23,200 kgf/51,150 lb		228 kN 23,200 kgf/51,150 lb	
ISO rating	Arm crowd force at power max	171 kN 17,400 kgf/38,360 lb		171 kN 17,400 kgf/38,360 lb	

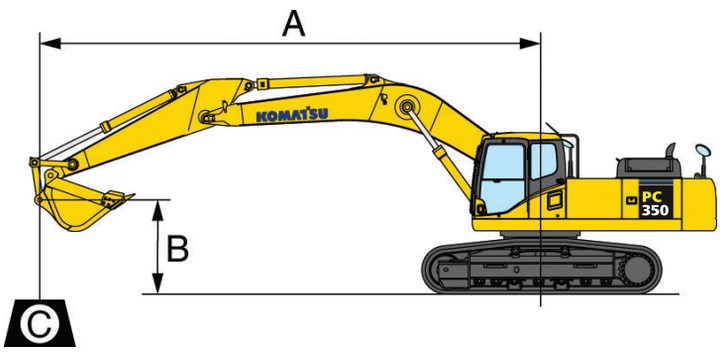
BACKHOE BUCKET, ARM AND BOOM COMBINATION

Working Conditions	Bucket Capacity		Width		Weight	Number of Teeth	Arm Lenth	
	SAE, PCSA	CECE	Without side cutters	With side cutters	With side cutters		2.55 m 8'4"	3.19 m 10'5"
Granite / Marble Quarry	1.40 m3 1.83 y3	1.20 m3 1.57 y3	1412 mm 55.59"	1516 mm 59.69"	1645 kg 3626 lbs	5	●	○

○ General purpose use, material weight up to 1.8 t/m^3

● Applicable

LIFTING CAPACITY



A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
□: Rating at maximum reach

PC350LC-7 Arm: 2.6M Bucket: 1.4 cu.m SAE heaped Shoe : 600 mm triple grouser										
A / B	□ MAX		7.6 m 25 ft		6.1 m 20 ft		4.6 m 15 ft		3.0 m 10 ft	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m	*6850	6150								
25 ft	*15100	13590								
6.1 m	*6600	4680	*6700	5300						
20 ft	*14550	10320	*14770	11680						
4.6 m	*6500	3930	*7100	5150	*8420	7640	*10900	*10900		
15 ft	*14330	8665	*15650	11350	*18560	16840	*24030	*24030		
3.0 m	*6550	3500	*7630	4850	*9560	7060	*13350	11000		
10 ft	*14440	7715	*16820	10690	*21075	15560	*29430	24250		
1.5 m	*6600	3360	*8050	4600	*10400	6600	*14700	10110		
5 ft	*14550	7410	*17750	10140	*22930	14550	*32410	22290		
0 m	*6700	3450	*8200	4450	*10650	6300	*14750	9780		
0 ft	*14770	7605	*18080	9810	*23480	13890	*32520	21560		
-1.5 m	*6800	3780	*7830	4400	*10300	6200	*13750	9770	*12520	*12520
- 5 ft	*14990	8335	*17260	9700	*22710	13670	30315	21540	*27600	*27600
-3.0 m	*6700	4570	*6620	4500	*9100	6280	*11950	9950	*15400	*15400
- 10 ft	*14770	10075	*14595	9920	*20060	13840	*26340	21930	*33950	*33950
-4.6 m	*6050	*6050			*6100	*6100	*8550	*8550	*10550	*10550
- 15 ft	*13340	*13340			*13450	*13450	*18850	*18850	*23260	*23260

** Load is limited by hydraulic capacity rather than tipping. Rating are based on SAE Standard No: J1097.*
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load

STANDARD & OPTIONAL EQUIPMENT

- Air Cleaner (Pre-filter)
- All-weather steel cab
- Alternator, 35 Ampere, 24V
- Arm 2550mm with 1.4 m^3 (SAE) Granite Bucket
- FOPS Cabin (cab front guard and top guard)
- Additional lamps on cab front
- Auto-Deceleration
- Automatic Engine Warm-up System
- Automatic de-aeration system for fuel line
- Batteries, 12V / 150 Ah x 2
- Boom holding valve
- Corrosion resistor
- Reinforced Track for Granite Sector
- Dry-type air-cleaner, double element
- Electric horn
- Engine, Komatsu SAA6D114E-2
- Engine overheat prevention system
- Fan guard structure
- Fuel Lift Pump
- Hydraulic track adjusters (each side)
- Monitor panel, 7-segment
- One piece Boom 6470 mm
- Power maximizing system
- PPC hydraulic control system
- Pre-Fuel Filter
- Radiator & Oil Cooler dust proof net
- Radio (AM/FM)
- Rear view mirror, R.H.
- Starter motor, 7.5kW / 24Vx1
- Suction fan
- Suspension Seat
- Tool Kit
- Track guiding guard, center section
- Track roller 8 each side
- Track shoe 600 mm 24” triple grouser
- Two settings for boom
- Water Separator
- Working light, 2 (boom and RH)
- Working mode selection system

Optional Equipment

- 7 segment valve for Rock Breaker with adaptation kit
- 800 mm Track
- Air-Conditioner (Cooler) Unit in Cabin
- Fire Extinguisher
- Automatic fire Suppression System
- Battery disconnect switch
- Audio Visual alarm
- Rear view monitor

Product improvement is a continuous process. Specifications given in this publication are therefore subject to change without notice.
Photographs depicted may be of optional equipment.

M E M O

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