

# KOMATSU

**PC**  
**380**



PC380LC-7

## PC380LC-7

HYDRAULIC EXCAVATOR

**NET HORSEPOWER**  
180kW / 242HP / 245PS

**OPERATING WEIGHT**  
PC380LC-7: UP TO 40.000 kg

**BUCKET CAPACITY**  
1,12 m<sup>3</sup> – 2,54 m<sup>3</sup>



The PC380-7 is a rugged, productive, all-European machine. Designed and expressly built for European markets, adjustable with mechanical undercarriage, it delivers productivity, reliability and operator comfort in a robust, environmentally-friendly package. Komatsu's exclusive, on-board, HydraulMind system assists in all operations, providing enhanced machine performance that's always perfectly matched to the task.

## What's new on Dash 7:

- Higher production
- Low fuel consumption
- Easier maintenance and serviceability
- Improved operator comfort
- Lower noise
- Meets stage II emission regulations
- Multi-function colour monitor
- Advanced attachment control



# SPECIFICATIONS



## ENGINE

Type . . . . . 6 cylinder, direct injection, emissionised, turbocharged, after-cooled diesel.  
 Model . . . . . Komatsu SAA6D114E-2  
 Power rating  
 ISO 9249 (Net) . . . . . 180kW (242HP/ 245PS) at 1.900 rpm  
 Bore x stroke . . . . . 114mm x 135mm  
 Piston displacement . . . . . 8,27 Ltr  
 Air-cleaner and cooling . . . . . Double element type with monitor panel dust indicator and auto dust evacuator.  
 Suction type cooling fan with radiator fly screen.



## ELECTRICAL SYSTEM

Alternator . . . . . 24 Volt - 60 ampere  
 Batteries . . . . . 2 x 12 Volt - 140 Ah  
 Starter motor . . . . . 24 Volt - 11 kW



## HYDRAULIC SYSTEM

Type . . . . . HydrauMind. Closed-centre system with load sensing and pressure compensation valves.  
 Additional circuits . . . . . Depending on specification up to 2 additional circuits can be installed.  
 Main pump . . . . . 2 variable displacement piston pumps supplying boom, arm, bucket, swing and travel circuits.  
 Maximum pump flow . . . . . 2 x 268 Ltr/min  
 Relief valve settings  
 Implement . . . . . 380 kg/cm<sup>2</sup>  
 Travel . . . . . 380 kg/cm<sup>2</sup>  
 Swing . . . . . 285 kg/cm<sup>2</sup>  
 Pilot circuit . . . . . 33 kg/cm<sup>2</sup>



## ENVIRONMENT

Engine emissions . . . . . Fully complies with EC stage 2 exhaust emission regulations.  
 Noise levels . . . . . LWA External noise 106dB(A) (2000/14/EC)  
 LPA Operator ear noise 75dB(A) (ISO 6396)



## OPERATION WEIGHT (APPROXIMATE)

Operating weight, including 6.470 mm one-piece boom, 3,2 m arm, 971kg bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.



## SWING SYSTEM

Type . . . . . Axial piston motor driving through planetary double reduction gearbox.  
 Swing lock . . . . . Electrically actuated wet multi-disc brake integrated into swing motor.  
 Swing speed . . . . . 0 to 9,5 rpm.



## DRIVES AND BRAKES

Steering control . . . . . 2 levers with pedals giving full independent control of each track.  
 Drive method . . . . . Enclosed variable displacement axial piston motor driving through planetary double reduction gearbox for each track.  
 Travel operation . . . . . Automatic 3-speed selection  
 Gradeability . . . . . 70%, 35°.  
 Travel speeds Lo / Mi / Hi . . . . . 2,0 / 3,4 / 4,3 km/h  
 Maximum drawbar pull . . . . . 34.000 kg  
 Brake system . . . . . Hydraulically operated discs in each travel motor.



## UNDERCARRIAGE

Construction . . . . . X-frame centre section with box section track-frames  
 Track assembly  
 Type . . . . . Fully sealed.  
 Shoes (each side) . . . . . 49  
 Rollers  
 Track rollers (each side) . . . . . 8  
 Carrier rollers (each side) . . . . . 2



## COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank . . . . . 605 ltr  
 Radiator . . . . . 32 ltr  
 Engine . . . . . 35 ltr  
 Swing drive . . . . . 13,4 ltr  
 Hydraulic tank . . . . . 188 ltr  
 Final drive (each side) . . . . . 9,5 ltr

### MONO BOOM

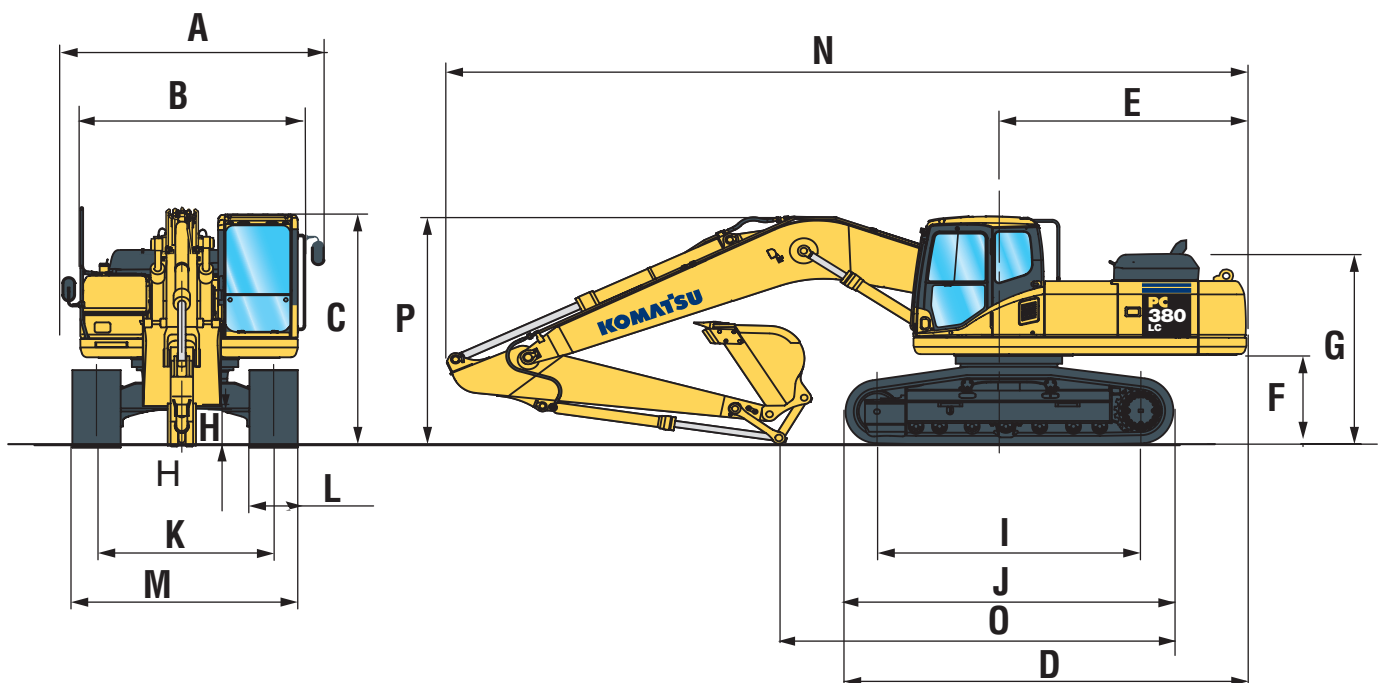
Triple grouser shoes	PC380LC-7	
	Operating weight	Ground pressure
600 mm	39.800 kg	0,70 kg/cm <sup>2</sup>
700 mm	40.300 kg	0,61 kg/cm <sup>2</sup>
800 mm	40.700 kg	0,54 kg/cm <sup>2</sup>



# MACHINE DIMENSIONS

MACHINE DIMENSIONS		PC380LC	
A	Overall width of upper structure with mirrors and handrail	3.397 mm	
B	Overall width of upper structure	2.995 mm	
C	Overall height of cab	3.265 mm	
D	Overall length of basic machine	5.955 mm	
E	Tail length	3.405 mm	
	Tail swing radius	3.450 mm	
F	Clearance under counterweight	1.320 mm	
G	Machine tail height (top of engine cover)	2.715 mm	
H	Ground clearance	706 mm	
I	Track length on ground	4.350 mm	
J	Track length	5.356 mm	
K	Track gauge	2.372*	2.870 mm
L	Track shoe width	600, 700, 800 mm	
M	Overall track width with 600 mm shoe	2.972*	3.470 mm
	Overall track width with 700 mm shoe	3.072*	3.570 mm
	Overall track width with 800 mm shoe	3.172*	3.670 mm

\*transport dimensions



Arm length one-piece boom	2,2 m	2,5 m	3,2 m	4,0 m
N Transport length	11.290 mm	11.180 mm	11.140 mm	11.170 mm
O Length on ground (transport)	7.155 mm	6.760 mm	5.930 mm	5.475 mm
P Overall height (to top of boom)	3.400 mm	3.410 mm	3.280 mm	3.760 mm



### BUCKET OPTIONS & DIGGING FORCES

Specifications and equipment may vary according to regional availability

## PC380LC-7

BUCKET AND ARM COMBINATION		Weight	Arm			
Bucket capacity (heaped) SAE, PCSA	Width		2,2 m	2,55 m	3,19 m	4,02 m
1,12 m <sup>3</sup>	1.000 mm	873 kg	○	○	○	○
1,38 m <sup>3</sup>	1.200 mm	977 kg	○	○	○	○
1,65 m <sup>3</sup>	1.400 mm	1.062 kg	○	○	○	○
1,79 m <sup>3</sup>	1.500 mm	1.104 kg	○	○	○	□
1,92 m <sup>3</sup>	1.600 mm	1.166 kg	○	○	○	□
2,12 m <sup>3</sup>	1.750 mm	1.230 kg	○	○	○	□
2,38 m <sup>3</sup>	1.800 mm	1.450 kg	□	□	□	△
2,54 m <sup>3</sup>	1.850 mm	1.820 kg	△	△	△	x

Please consult with your distributor for the correct selection of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical operating conditions.

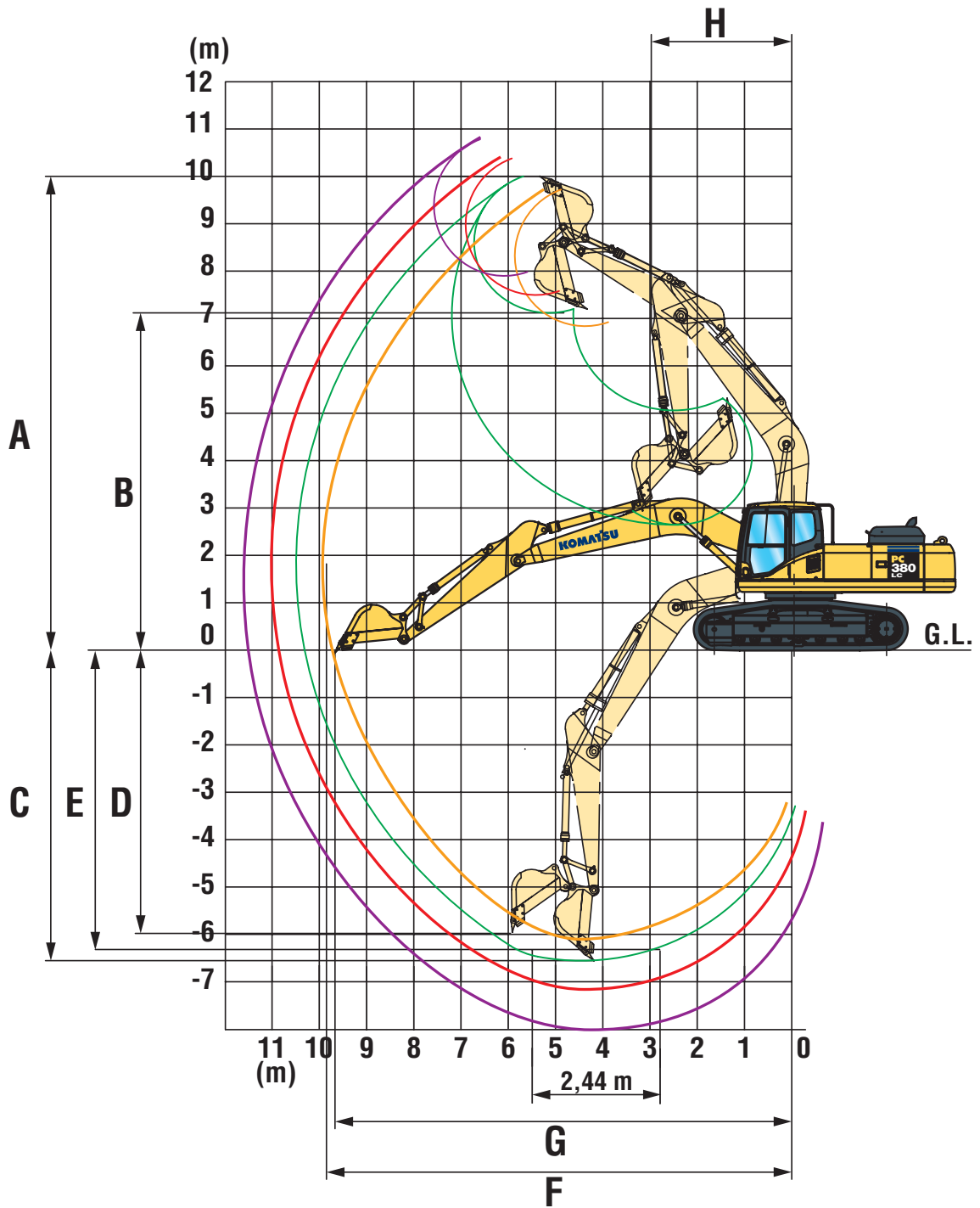
- Material weight up to 1,8 t/m<sup>3</sup>
- Material weight up to 1,5 t/m<sup>3</sup>
- △ Material weight up to 1,2 t/m<sup>3</sup>
- x Not usable.



BUCKET AND ARM FORCE				
Arm length	2,2 m	2,5 m	3,2 m	4,0 m
Bucket digging force	24.700 kg (242 KN)	24.700 kg (242 KN)	21.600 kg (212 KN)	21.600 kg (212 KN)
Bucket digging force at power max	26.400 kg (259 KN)	26.400 kg (259 KN)	23.100 kg (227 KN)	23.100 kg (227 KN)
Arm crowd force	22.400 kg (220 KN)	19.100 kg (187 KN)	16.300 kg (160 KN)	13.700 kg (134 KN)
Arm crowd force at power max.	24.000 kg (235 KN)	20.500 kg (201 KN)	17.400 kg (171 KN)	14.700 kg (144 KN)

# WORKING RANGES

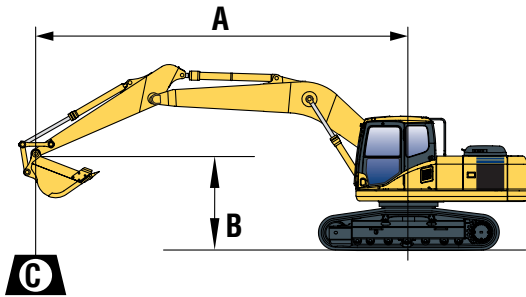
## PC380LC-7



Arm length	2.200 mm	2.550 mm	3.190 mm	4.020 mm
A Max. digging height	9.715 mm	10.100 mm	10.345 mm	10.685 mm
B Max. dumping height	6.730 mm	7.030 mm	7.245 mm	7.625 mm
C Max. digging depth	6.220 mm	6.570 mm	7.245 mm	8.045 mm
D Max. vertical wall digging depth	4.985 mm	5.745 mm	6.345 mm	7.145 mm
E Max. digging depth of cut for 2.44 m level	5.995 mm	6.385 mm	7.045 mm	7.910 mm
F Max. digging reach	10.155 mm	10.550 mm	11.100 mm	11.900 mm
G Max. digging reach at ground level	9.950 mm	10.355 mm	10.920 mm	11.730 mm
H Min. swing radius	4.390 mm	4.400 mm	4.310 mm	4.320 mm

# LIFTING CAPACITY

## PC380LC-7 ONE-PIECE BOOM



- A – Reach from swing center
  - B – Bucket hook height
  - C – Lifting capacities, including bucket linkage (200 kg) and bucket cylinder (140 kg)
- Rating over front
  - Rating over side
  - Rating at maximum reach

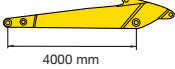
When removing bucket, linkage or cylinder, lifting capacities can be increased by their respective weights

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


With 700 mm shoe

Arm length	A			7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	

With 700 mm shoe



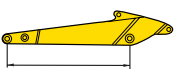
4000 mm




977 kg  
1.38 m<sup>3</sup>

6.0 m	kg	* 3.700	* 3.700										
4.5 m	kg	* 3.750	* 3.750	* 7.000	* 7.000								
3.0 m	kg	* 3.950	* 3.950	* 7.850	7.300	* 9.500	* 9.500	* 12.550	* 12.550	* 19.950	* 19.950		
1.5 m	kg	* 4.250	3.850	* 8.650	6.900	* 10.900	9.800	* 15.250	* 15.250	* 8.550	* 8.550		
0.0 m	kg	* 4.750	3.900	* 9.250	6.600	* 11.850	9.150	* 16.700	14.500	* 8.750	* 8.750		
-1.5 m	kg	* 5.550	4.150	* 9.450	6.450	* 12.250	9.000	* 16.950	14.100	* 11.700	* 11.700	* 7.500	* 7.500
-3.0 m	kg	* 6.650	4.650	* 9.150	6.350	* 11.850	8.900	* 16.150	14.050	* 15.950	* 15.950	* 11.250	* 11.250
-4.5 m	kg	* 6.650	5.650	* 8.050	6.450	* 10.700	9.750	* 14.300	* 14.100	* 19.800	* 20.050	* 15.650	* 15.650

With 700 mm shoe



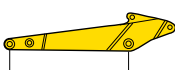
3200 mm




977 kg  
1.38 m<sup>3</sup>

6.0 m	kg	* 4.900	* 4.900	* 7.150	* 7.150								
4.5 m	kg	* 5.000	4.900	* 7.750	7.450	* 9.050	* 9.050						
3.0 m	kg	* 5.300	4.550	* 8.500	7.150	* 10.450	10.200	* 14.000	* 14.000				
1.5 m	kg	* 5.850	4.450	* 9.150	6.850	* 11.700	9.650	* 16.450	14.950				
0.0 m	kg	* 6.650	4.500	* 9.550	6.600	* 12.350	9.250	* 17.150	14.350	* 8.150	* 8.150		
-1.5 m	kg	* 7.300	4.850	* 9.500	6.500	* 12.300	9.050	* 16.700	14.200	* 13.000	* 13.000	* 9.150	* 9.150
-3.0 m	kg	* 7.400	5.600	* 8.700	6.500	* 11.500	9.050	* 15.300	14.300	* 18.950	* 18.950	* 13.950	* 13.950
-4.5 m	kg	* 7.200	7.200			* 9.350	9.250	* 12.650	* 12.400	* 16.750	* 16.750		

With 700 mm shoe



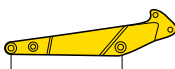
2550 mm




977 kg  
1.38 m<sup>3</sup>

6.0 m	kg	* 6.900	6.250	* 7.850	7.550								
4.5 m	kg	* 7.100	5.450	* 8.350	7.350	* 9.900	* 9.900	* 12.800	* 12.800				
3.0 m	kg	* 7.550	5.050	* 9.000	7.100	* 11.150	10.050	* 15.500	* 15.500				
1.5 m	kg	* 7.650	4.950	* 9.500	6.850	* 12.100	9.400	* 17.100	14.650				
0.0 m	kg	* 7.800	5.100	* 9.700	6.650	* 12.550	9.250	* 17.150	14.300				
-1.5 m	kg	* 7.900	5.550	* 9.400	6.550	* 12.150	9.150	* 16.200	14.300	* 13.850	* 13.850		
-3.0 m	kg	* 7.800	6.500	* 8.200	6.650	* 10.700	9.000	* 14.300	* 14.150	* 18.400	* 18.400		
-4.5 m	kg	* 7.300	* 7.300			* 8.250	* 8.000	* 11.000	* 11.000	* 13.650	* 13.650		

With 700 mm shoe



2200 mm



977 kg  
1.38 m<sup>3</sup>

6.0 m	kg	* 8.000	6.950	* 8.150	7.450	* 9.150	* 9.150						
4.5 m	kg	* 7.950	5.950	* 8.600	7.300	* 10.250	* 10.250	* 13.450	* 13.450				
3.0 m	kg	* 8.050	5.500	* 9.150	7.000	* 11.450	9.900	* 16.000	15.250				
1.5 m	kg	* 8.150	5.350	* 9.600	6.750	* 12.100	9.200	* 17.150	14.400				
0.0 m	kg	* 8.300	5.500	* 9.700	6.600	* 12.450	9.150	* 16.850	14.200				
-1.5 m	kg	* 8.400	6.050	* 9.150	6.550	* 11.900	9.100	* 15.650	14.250	* 15.950	* 15.950		
-3.0 m	kg	* 8.350	7.300			* 10.350	9.100	* 13.500	* 13.300	* 16.500	* 16.500		
-4.5 m	kg	* 7.700	* 7.700					* 9.850	* 9.850	* 11.600	* 11.600		

# CRAWLER EXCAVATOR



## STANDARD EQUIPMENT

Standard and optional equipment may vary. Consult your Komatsu dealer for more information.

- Komatsu SAA6D114E-2 180kW direct injection emissionised stage II intercooled turbo charged diesel engine.
- Double element type air-cleaner with dust indicator and auto-dust evacuator.
- Suction type cooling fan with radiator fly screen.
- Automatic fuel line de-aeration
- Engine key stop
- Alternator, 24 Volt 60 ampere
- Batteries, 2x12 Volt 140Ah
- Starter motor, 24 Volt 11 kW
- Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydraMind).
- Pump and engine mutual control (PEMC) system
- Multi function colour monitor with equipment management monitoring system (EMMS)
- 4-working mode selection system; Active mode, economy mode, breaker mode and lifting mode
- In-line filter for hydraulics.
- Standard counterweight
- Standard colour scheme and decals
- Power-Max function
- Auto-deceleration function.
- 2-mode boom control setting.
- Automatic engine warm-up system.
- Engine overheat prevention system.
- Fuel control dial.
- Adjustable PPC wrist control levers with 3 button controls for arm, boom, bucket and swing.
- PPC control levers and pedals for steering and travel.
- One additional 2-way proportional service valve. (full flow)
- Hydrostatic, 3-speed travel system with automatic shift and planetary gear type final drives, and hydraulic travel and parking brakes.
- SpaceCab™; Highly pressurized and tightly sealed viscous mounted cab with tinted safety glass windows, opening roof hatch with window pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, ashtray, luggage box, floor mat
- Track roller guards
- Parts book and operator manual
- Lockable fuel cap and covers.
- Remote greasing for swing circle and pins
- Fuel supply pump
- Track frame under-guards
- 12 Volt power supply
- Overload warning device
- Boom safety valves
- Large handrails and rear-view mirrors
- Cigarette lighter
- Radio cassette preparation.
- Beverage holder and magazine rack
- Electrical horn
- Climate control/Airconditioning
- Hot and cool box.
- Toolkit and spare parts for first service.
- Lights; 2 revolving frame lights and 1 boom light
- Suspension seat with adjustable arm rests and retractable seat belt.
- Engine ignition can be password secured on request.

## OPTIONAL EQUIPMENT

- 600, 700, 800 mm triple grouser track-shoes
- Mono boom
- 2,2 m, 2,5 m, 3,2 m, 4,0 m arms
- Automatic greasing system
- Additional hydraulic circuits
- Arm safety valve
- Additional cab roof lights
- Rain visor
- Komatsu buckets
- Heated air suspension seat
- Full length track roller guards
- Radio-Cassette
- Service points
- Beacon preparation
- Bio oil
- OPG top guard
- OPG front guard



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