

KOMATSU

PC75-10M0



Photos may include optional equipment.

Hydraulic excavator

CE

Engine power

Gross 48.2 kW / 64.6 HP @2000 min⁻¹

Net 40.6 kW / 54.5 HP @2000 min⁻¹

Operating weight

7350 kg

Bucket capacity

0.30 m³ – 0.35 m³

Combination of low fuel consumption and high productivity

- High power engine output
- Reduction of fuel consumption



Fuel efficiency redefined

Welcome the next-redefining performance of technology

Comfort

- Low-noise cab **New**
- Excellent visibility
- Wide spacious cab
- Selectable working modes

Safety

- ROPS cab (ISO 12117-2) **Upgrade**
- Rear view mirror
- Lock lever

Maintenance

- Easy access to engine oil filter, engine main fuel filter and fuel drain valve
- Equip fuel pre-filter (with water separator)
- Side-by-side cooling
- Air cleaner with double element

Durability

- Long-life oil and filter
- Large carrier rollers
- Durable travel motor
- Revolving frame with undercover
- Reinforced revolving frame

information and communication technology (ICT)

- Large Liquid Crystal Display (LCD) color monitor with touch screen **New**
- Komtrax



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Combination of low fuel consumption and high productivity

New 4-cylinder engine

PC75-10M0, which is equipped with a 4-cylinder engine, achieves high power engine output and improvement in fuel efficiency.

Engine power (ISO 9249/SAE J1349)

40.6 kW



CG image

Improved efficiency

- Low fuel consumption
 - Compact and lightweight engine with high power
 - Mechanical engine with less maintenance
 - Closed-center Load Sensing System (CLSS)
- Komatsu's advanced hydraulic tuning technology delivers an ideal balance of powerful performance and precise controllability, enabling operators to work smoothly, accurately, and efficiently.

Assists energy-saving operation

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

High productivity 0.35 m³ Me bucket

- Low resistant
- Low resistant excavation with a well-engineered bucket to improve fuel efficiency.
- High productivity
- High productivity even in the toughest application with the Me bucket.

Improved filtration system

A rotary air pre-cleaner is incorporated to deliver clean air to the engine even in a dusty environment, extending filter life.

New hybrid hydraulic filter for improved filtration and hydraulic oil life.

Selectable working modes New

Two established work modes are further improved.

P mode – Power mode gives priority to work, while maintaining fast equipment speed and maximum production and power.

E mode – Economy mode reduces fuel consumption. Speed of work equipment is almost same as P mode for light duty work.

ATT mode – Breaker mode.

Operator can choose ATT mode for breaker operation, and the breaker hours will be automatically calculated upon selection.

Work priority

P mode

P

Fuel priority

E mode

E

Operation priority

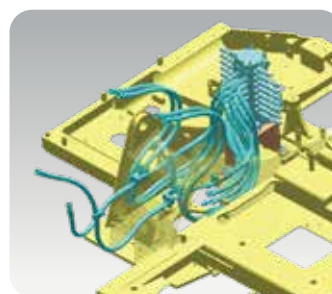
Breaker mode

ATT



Reduction of hydraulic pressure loss

The internal design of the control valves, piping diameters, and fitting shapes has been thoroughly optimized. These improvements significantly reduce hydraulic losses, contributing to improved fuel efficiency.



Comfort



Low-noise cab New

Cab is highly rigid and has excellent sound absorption ability. Improvement of noise source reduction and use of low noise engine, hydraulic equipment, and Air Conditioner (A/C) allow this machine to generate a low level of noise.

Excellent visibility

Spacious cab has wide glass area to provide the operator with excellent visibility.

Wide spacious cab

Newly designed large cab provides roomy work space and wide legroom. In addition, large operator's seat has a fore-and-aft sliding and a reclining function.



Air conditioner system with access control



Bluetooth® radio with USB

Delivers seamless wireless audio connectivity and convenient USB media support for an enhanced, enjoyable cab experience.

Soft joystick with control

Soft-control joystick with consoles features easy-access switches placed ergonomically for quick and easy access.

Safety

ROPS cab (ISO 12117-2) Upgrade

The machine is equipped with a ROPS cab (ISO 12117-2) for excavators as standard equipment. The ROPS cab has high shock-absorption performance, featuring excellent durability and impact strength. It also satisfies the requirements of OPG top guard level 1 (ISO 10262) for falling objects. Combined with the retractable seat belt, The ROPS cab protects the operator in case of tipping over and against falling objects.



Battery disconnect switch

Enhance your machine's reliability with a reliable Battery disconnect switch, ensuring quick and secure power shutdowns. Perfect for long-term storage and maintenance, it safeguards your electrical system and provides peace of mind all the time.



Lock lever

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



Front guard and head guard (Optional)

Improve operator safety with our optional durable Level-2 front guard and head guard, designed to shield operators from flying stones and debris in challenging work environments while providing easy access.



Safety guard and protection cover

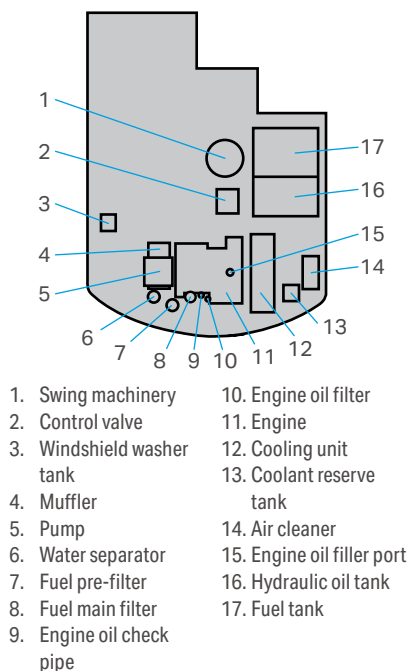
Fan guards improve safety during inspections and maintenance by preventing injuries from accidental hand placement in the engine fan while also protecting the fan and radiator from debris.



Maintenance

Easy maintenance

Operator can open all covers wide. It is very easy to access key components and filters. Also it is very easy to check oil.



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.



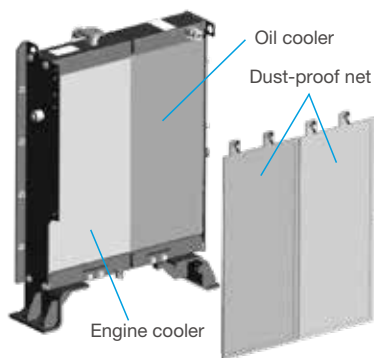
Equip fuel pre-filter (with water separator)

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



Side-by-side cooling

Since radiator and oil cooler are arranged side-by-side with improved air flow and improved cooling area. The core made of aluminum fins have high cooling efficiency and are easily recycle.



Air cleaner with double element

Air cleaner and double element prevent dust from entering the system.



Durability

Long-life oil and filter

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



Hydraulic oil filter

Engine oil & engine oil filter & hydraulic oil filter	every 500 hours
Hydraulic oil	every 5000 hours

Large carrier rollers

Bigger outside diameter used, to provide longer life.



Durable travel motor

This travel motor uses planetary gear. Structure is simple and reliable.

Revolving frame with undercover

Seven undercovers protects inner components from objects thrust up from the bottom.



Reinforced revolving frame

High reliability, due to thickening plate significantly.

Cover for all exterior parts

Exterior parts are easy to repair.

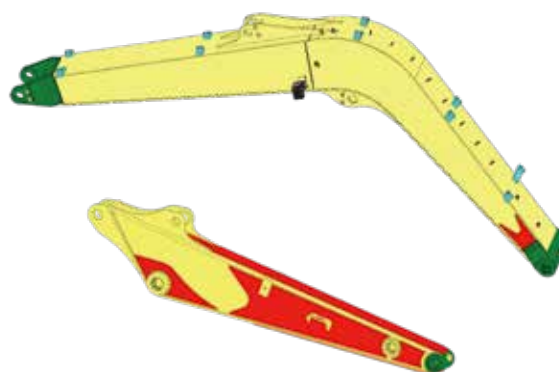


High rigidity work equipment

Boom and arm are constructed of thick plates of high-tensile-strength steel. Furthermore, it is equipped with an arm optimized for sheet metal structures for civil engineering work. Despite its lightweight design, it features a large cross-sectional area and achieves high durability.

- Reinforced boom, arm can be selected according to the application

Reliable and conventional reinforced boom, arm is also available as an optional extra. Increasing plate thickness enhances durability, enabling even tougher work to be performed.

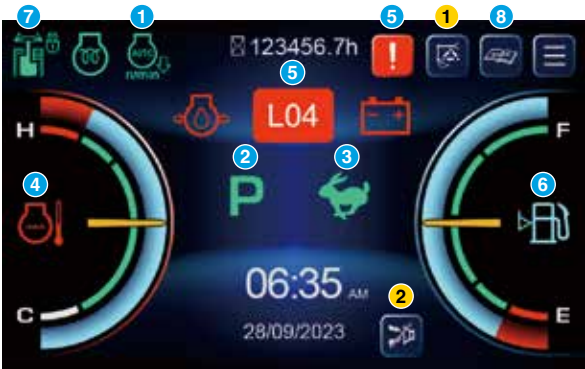


ICT

Large LCD color monitor with touch screen New

A large user-friendly touch color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved, which is easily readable at various angles and lighting conditions. The touch switches are simple and easy to operate. Industry-first function keys facilitate multi-function operations.

- Custom monitoring feature
Maintenance list monitoring function, includes a periodic items list with hour tracking, accessible from the home screen. It notifies operators of upcoming maintenance by turning on the reminder.



Indicators

- | | |
|----------------------------------|------------------------|
| 1 Auto-decelerator | 5 Machine abnormality |
| 2 Working mode | 6 Fuel gauge |
| 3 Travel speed | 7 Swing lock |
| 4 Engine water temperature gauge | 8 Maintenance due time |

Basic operation switches

- | | |
|-------------------------|-----------------|
| 1 Working mode selector | 2 Buzzer cancel |
|-------------------------|-----------------|



Pre-defined monitoring has been enhanced to world-class standards and now includes an abnormality record to meet customer needs.



Komtrax assists you with

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

- Full machine monitoring

Get detailed data on machines operation whenever it is 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 the internet.

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



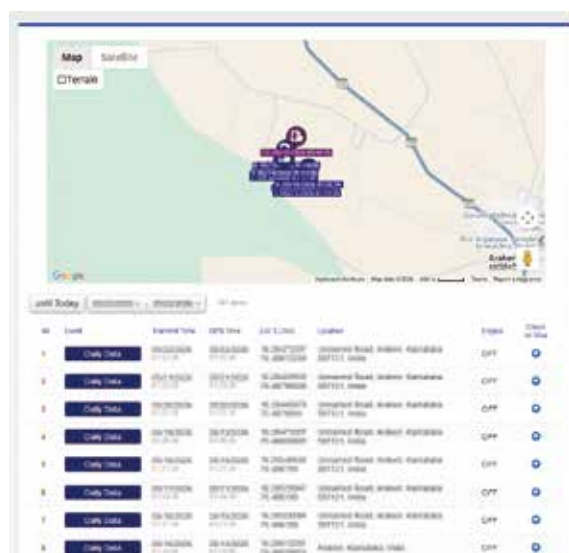
Data communication using General Packet Radio Service (GPRS) signal.



- Summary – Location / Service Meter Readings (SMR) / Working



- Machine location record



- Working hour record



- Monthly status summary

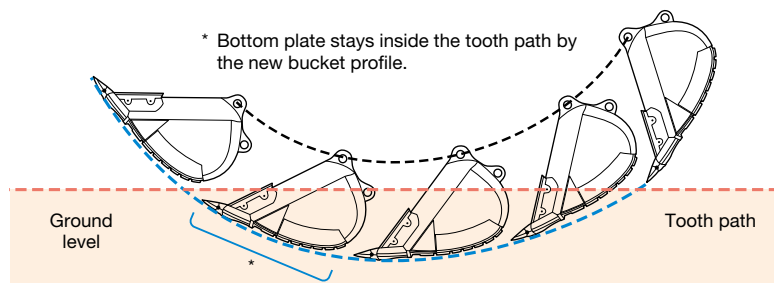


Komatsu brand bucket

Me bucket

- High productivity by low-resistant excavation

The new Ideal bucket profile produce slower resistance inside & outside bucket and production will be greatly increased.



Bucket line-up and attachment combination

Category	Bucket							Arm	
	Capacity (Heaped) (m³)	Width (mm)		Weight (kg)	Number of teeth	Tooth type	Density (t/m³)	Standard	Strengthened
Light-duty digging	0.3	Without side	With side cutters	236	4	Horizontal	●	✓	(✓)
Heavy-duty digging	0.3	-	785	267	4	Horizontal	○	✓	(✓)
Me	0.35	760	800	265	4	Horizontal	○	✓	(✓)

○: General purpose use, density up to 1.8 t/m³ ●: Light duty work, density up to 1.4 t/m³ ✓: Standard (✓): Selectable

Category and feature

Category	Load / Wear / Soil (Application)	Image	
Light Duty GP	Load Machine power remains low for most of the work. No impact load. Wear Material is not abrasive. Soil Dirt, loam and clay.		
Heavy Duty HD	Load Machine power is mostly high. Bucket movements frequent shock load. Wear Material is highly abrasive. Soil Mostly hard and heavy stones.		
Me	Load High productivity by low-resistant excavation. Medium but continuous load. Wear Material is not abrasive. Soil Loose soil, sand and clay.		

Special spec.

Heavy-duty specification



Operating weight 7450 kg
 Bucket capacity 0.35 m³

Auxiliary hydraulics with valves



Blade specification



Operating weight 7350 kg
 Blade width × height 2150 mm × 465 mm
 Blade max. lift above ground 385 mm
 max. drop below ground 250 mm

Komatsu total support



Komatsu total support

Komatsu Distributor is ready to provide variety of support before and after procuring machine to keep customers machine available and minimize operation cost.

- **Fleet recommendation**

Komatsu Distributor can study customer job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or to replace the existing ones from Komatsu.

- **Product support**

Komatsu Distributor secure the quality of machine by offering quality repair and maintenance services to the customer using Komatsu developed programs.

- Preventive Maintenance (PM) Clinic
- Komatsu Oil and Wear Analysis (KOWA)
- Undercarriage inspection service, etc.

- **Genuine parts and genuine oil**

Komatsu Distributor will promptly and smoothly offer genuine parts and genuine oil guaranteed quality to various jobsites. Genuine oil is developed by Komatsu so that it is best matched for our Komatsu engines and hydraulic components. It maximizes engine and hydraulic components performance and prolong life.

- **Service contract**

Komatsu Distributor offers several service package of repair and maintenance for a contracted period with optimum cost. Customer can be "worry-free" by trusting Komatsu Distributor skilled service.

- **Extended warranty**

Extended warranty with several options available. Komatsu guarantee skilled repair with genuine parts and protection from unexpected expenses.

- **Operator training**

Komatsu Distributor can provide excellent operator training which enables them to operate machine safely & efficiently and to maintain machine properly.

Specification

Engine

Model	Komatsu DLA033
Type	Water-cooled, 4-cycle direct injection
Aspiration	Naturally aspirated
Number of cylinders	4
Bore	98 mm
Stroke	110 mm
Piston displacement	3.31 L
Horse power:	
SAE J1995	Gross 48.2 kW 64.6 HP
ISO 14396	48.2 kW 64.6 HP
ISO 9249 / SAE J1349	Net 40.6 kW 54.5 HP
Rated rpm	2000 min ⁻¹
Fan drive method for radiator cooling	Mechanical
Governor	All-speed control, Mechanical

Hydraulic system

Type	HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves		
Number of selectable working modes	2 (S & L mode in hydraulic system)		
Main pump:			
Type	Variable displacement piston type		
Pumps for	Boom, arm, bucket, swing, travel, and blade circuits		
Maximum flow	155 L/min		
Supply for control circuit	Self-reducing valve		
Hydraulic motors:			
Travel	2 x axial piston motors with parking brake		
Swing	1 x axial piston motor with swing holding brake		
Relief valve setting:			
Implement circuits	26.5 MPa 270 kgf/cm ²		
Travel circuit	26.5 MPa 270 kgf/cm ²		
Swing circuit	20.6 MPa 210 kgf/cm ²		
Pilot circuit	3.2 MPa 33 kgf/cm ²		
Hydraulic cylinders: (number of cylinders – bore x stroke x rod diameter)			
Boom	1–110 mm x 858 mm x 65 mm		
Arm	1–95 mm x 861 mm x 60 mm		
Bucket	1–90 mm x 710 mm x 55 mm		
Blade	1–120 mm x 130 mm x 70 mm		

Drives and brakes

Steering control	Two levers with pedals
Drive method	Hydrostatic
Maximum drawbar pull	60.5 kN 6160 kgf
Reduction system	Planetary gear triple reduction
Gradeability	70%, 35°
Maximum travel speed: Hi	4.8 km/h
Lo	2.7 km/h
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	11.2 min ⁻¹

Undercarriage

Center frame	X-frame
Track frame	Box-section
Seal of track	Sealed track
Track adjuster	Hydraulic
Number of shoes (each side)	38
Number of carrier rollers (each side)	1
Number of track rollers (each side)	5

Coolant and lubricant capacity (refilling)

Fuel tank	130 L
Coolant	10.2 L
Engine	11.2 L
Final drive (each side)	1.2 L
Swing drive	2.0 L
Hydraulic tank	57 L

Operating weight (approximate)

Operating weight including 3710 mm one-piece boom, 1650 mm arm, heaped 0.35 m³ bucket, 2150 mm width blade, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

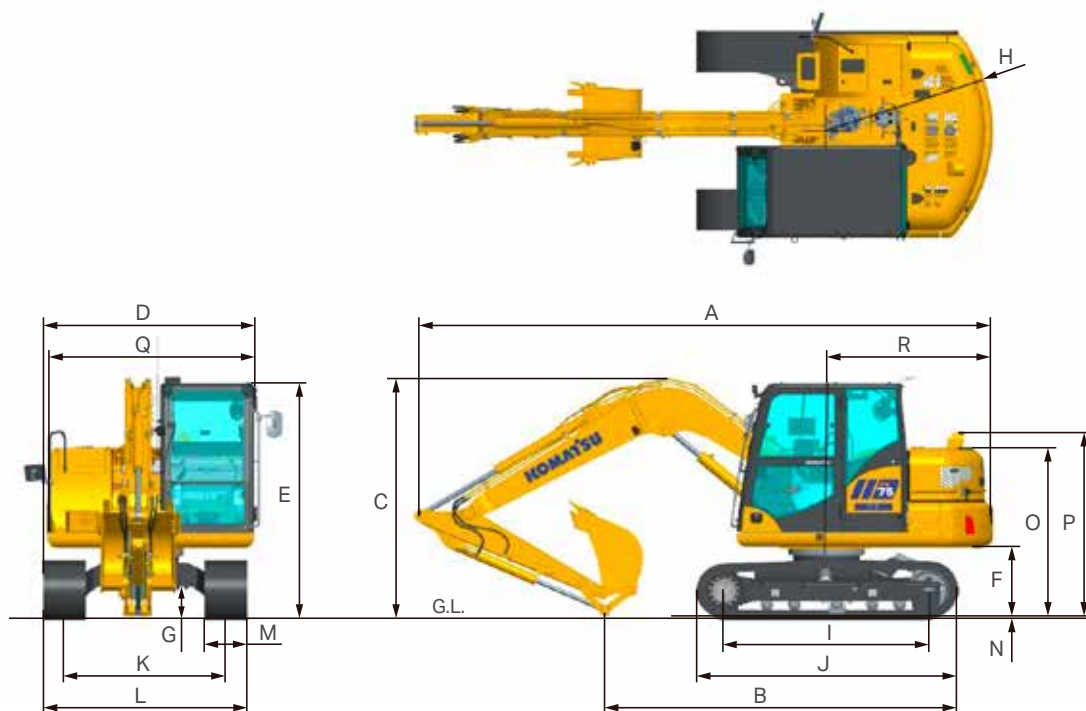
Shoes	PC75-10M0	
	Operating weight	Ground pressure
450 mm	7350 kg	39.6 kPa 0.4 kgf/cm ²

Specification

Machine dimensions

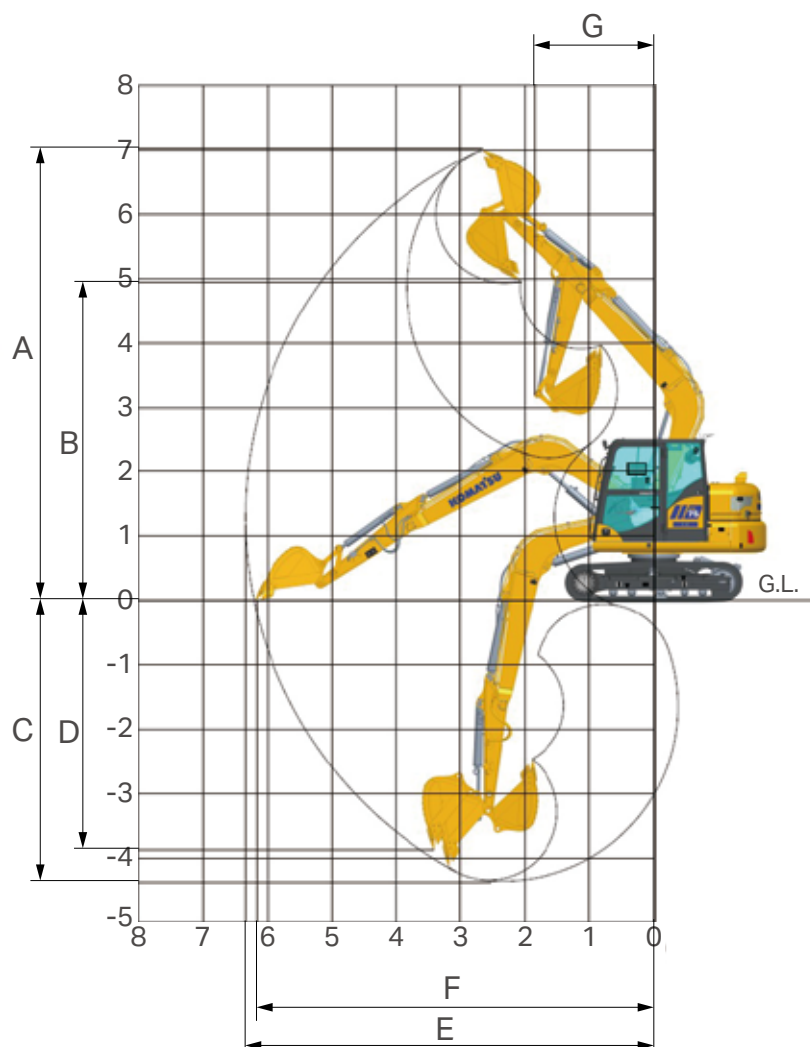
Arm length	1650 mm
A Overall length	6100 mm
B Length on ground (transport)	3700 mm
C Overall height (to top of boom)*	2530 mm
Model	PC75-10M0
D Overall width	2265 mm
E Overall height (to top of cab)*	2540 mm
F Ground clearance, counterweight	750 mm
G Ground clearance (minimum)	360 mm
H Tail swing radius	1750 mm
I Track length on ground	2160 mm
J Track length	2760 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	1810 mm
P Machine height to top of engine cover	2190 mm
Q Machine upper width	2180 mm
R Distance, swing center to rear end	1750 mm

* Including grouser height

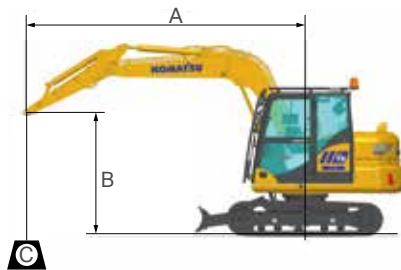


Working range

Arm length		1650 mm
A	Max. digging height	7040 mm
B	Max. dumping height	4940 mm
C	Max. digging depth	4350 mm
D	Max. vertical wall digging depth	3925 mm
E	Max. digging reach	6350 mm
F	Max. digging reach at ground level	6210 mm
G	Min. swing radius	1870 mm
ISO 6015 Rating	Bucket digging force at power max.	50.8 kN 5180 kgf
	Arm crowd force at power max.	34.3 kN 3500 kgf



Lifting capacity with lifting mode



- A: Reach from swing center
B: Arm top pin height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊙: Rating at maximum reach

Conditions :
• 3710 mm one-piece boom

PC75-10M0

Arm: 1650 mm Without bucket Shoe: 450 mm triple grouser

A	⊙		5.5 m		5.0 m		4.5 m		3.0 m		1.5 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m	*1770 kg	*1770 kg										
4.5 m	*1540 kg	1400 kg							*1680 kg	*1680 kg		
3.0 m	1380 kg	1070 kg			1470 kg	1130 kg	*1680 kg	1340 kg	*1990 kg	*1990 kg		
1.5 m	1250 kg	960 kg	1240 kg	950 kg	1420 kg	1090 kg	1660 kg	1270 kg	*2770 kg	2240 kg		
0 m	1270 kg	970 kg			1380 kg	1050 kg	1600 kg	1210 kg	2900 kg	2100 kg		
-1.5 m	1510 kg	1140 kg					1580 kg	1200 kg	2860 kg	2080 kg	*3720 kg	*3720 kg
-3.0 m	*1680 kg	*1680 kg							*1980 kg	*1980 kg	*3110 kg	*3110 kg

* 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.

Standard and optional equipment

Engine

Dry type air cleaner, double element	●
Air pre-cleaner	○
Engine, Komatsu DLA033	●
Fuel control dial	●
Fuel pre-filter (with water separator)	●
Radiator and oil cooler dust proof net	●
Side-by-side cooling	●
Wave fin radiator	●

Electrical system

Auto-decelerator	●
Two-speed travel control	●
Alternator, 24 V/45 A	●
Batteries, 2 x 12 V/65 Ah	●
Battery disconnect switch with operation lamp	●
Starting motor, 24 V/3.5 kW	●
Working lights LED	●
Head light LED	○
Amber beacon lamp on cab roof	○

Hydraulic system

Closed-center system with load-sensing valve and pressure-compensated valve	●
Cushion at end of boom and arm stroke	●
Pressure Proportional Control (PPC) hydraulic control system	●
Working mode selection system	●
Service valve	●

Guards and covers

Fan guard structure	●
Thermal guard	●
Bolt-on top guard, OPG level 2 (ISO 10262)	○
Cab front guard - Full height guard, OPG level 2 (ISO 10262)	○

Further equipment on request

●: Standard equipment

○: Optional equipment

Undercarriage

Track roller guards	●
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Operator environment

Bluetooth® radio	●
Ashtray	●
A/C	●
Beverage holder	●
Cigarette lighter	●
Emergency escape hammer	●
Footrest	●
Large 7-inch high resolution monitor	●
Suspension seat	●
Tool box	●
Magazine rack	●
Rear view mirrors (RH, rear)	●
Room light LED	●
ROPS cab (ISO 12117-2)	●
Seat belt	●
Sliding window in the left side of cab	●
Washable floor mat	●
Wiper with washer	●
Rear view mirror (LH)	○

Other

Handrail	●
Lock lever	●
Slip-resistant plates	●
Swing lock brake	●
Travel alarm	○
Komtrax	●
Electric horn	●

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