

# KOMATSU

# PC81-10M0

## HYDRAULIC EXCAVATOR



Operating weight: 7450 kg

Engine power: 56.7 HP @ 1700 RPM

Boom 3.71 m, Arm 1.65 m, Bucket  
0.35 m<sup>3</sup>

### Faster

Up to 20+% faster work speed

### Income booster

Improved fuel efficiency  
One point contact for service

### Reliable performer

Heavy duty work equipment  
Proven Komatsu engine

### Safer

First ROPS certified cabin in its class

### Trendsetter

Set the trend in the market

Be **FIRST**, stay **FIRST**  
choice of customer



## Bucket line-up and attachment combination

| Category              | Bucket                 |                                   |                                |             |                 |            |                | Arm      |              |
|-----------------------|------------------------|-----------------------------------|--------------------------------|-------------|-----------------|------------|----------------|----------|--------------|
|                       | Capacity (Heaped) (m³) | Width (mm) — Without side cutters | Width (mm) — With side cutters | Weight (kg) | Number of teeth | Tooth type | Density (t/m³) | Standard | Strengthened |
| Trenching and loading | 0.09                   | 350                               | 450                            | 145         | 3               | Horizontal | ○              | (✓)      | ✓            |
| Light-duty digging    | 0.3                    | 790                               | 890                            | 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

### 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 42.3 kW 56.7 HP                  |
| ISO 14396                             | 42.3 kW 56.7 HP                        |
| ISO 9249 / SAE J1349                  | Net 39.9 kW 53.5 HP                    |
| Rated rpm                             | 1700 min <sup>-1</sup>                 |
| Fan drive method for radiator cooling | Mechanical                             |
| Governor                              | All-speed control, Mechanical          |

### 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  | PC81-10M0        |                         |
|--------|------------------|-------------------------|
|        | Operating weight | Ground pressure         |
| 450 mm | 7450 kg          | 39.6 kPa<br>0.4 kgf/cm² |

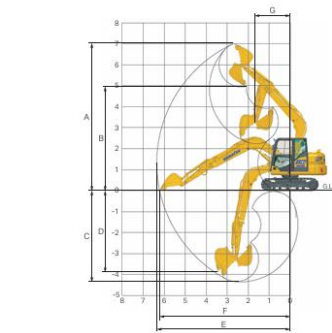
### Machine dimensions

|                                         |                  |
|-----------------------------------------|------------------|
| <b>Arm length</b>                       | <b>1650 mm</b>   |
| A Overall length                        | 6100 mm          |
| B Length on ground (transport)          | 3700 mm          |
| C Overall height (to top of boom)*      | 2530 mm          |
| <b>Model</b>                            | <b>PC81-10M0</b> |
| 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

|                                                 |                    |
|-------------------------------------------------|--------------------|
| <b>Arm length</b>                               | <b>1650 mm</b>     |
| 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                | 50.8 kN / 5180 kgf |
| ISO 6015 rating — Arm crowd force at power max. | 34.3 kN / 3500 kgf |



### 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**

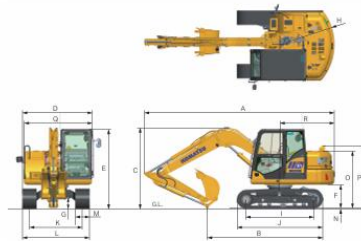
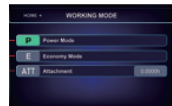
Fuel priority

**E mode**

Operation priority

**Breaker mode**

**P**  
**E**  
**ATT**



### 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                                                               | ● |
| Rock breaker kit                                                            | ○ |

#### 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) | ○ |

#### Undercarriage

|                     |   |
|---------------------|---|
| Track roller guards | ● |
|---------------------|---|

#### Operator environment

|                                        |   |
|----------------------------------------|---|
| Bluetooth® radio                       | ● |
| Ashtray                                | ● |
| Cab cooling fan                        | ● |
| 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         | ● |

Further equipment on request.

●: Standard equipment ○: Optional equipment

## Distributors Information