HydrauMind
The outstanding heart of Komatsu’s new excavator

Designed and manufactured in Europe using the patented Komatsu HydrauMind Hydraulic System which offers world-class operation and performance.

Hydraulic Excavator
PC130-6

Flywheel Horsepower: 64 kW (87 PS) at 2200 rpm
Bucket Capacities: 0.24 ~ 0.84 m³ SAE
Weight Range: Up to 13,300 kg
THE KOMATSU DASH 6 EXCAVATOR FEATURES THE REMARKABLE AND UNIQUE HydrauMind
What is **HYDRAUMIND**?

It’s Komatsu’s sophisticated excavator technology that succeeded in making truly advanced excavators available now.

The system is essentially hydraulic and electronically controlled. Its strength lies in its simplicity.

**HYDRAUMIND** incorporates many major innovations.
Komatsu has almost 200 patents relating to the Dash 6.

**Benefits of HYDRAUMIND**

Power, versatility, manoeuvrability, controllability—you name it. Never has there been an excavator so easy to operate, so natural, so intuitive, so responsive.

For example, when digging and the ground condition changes...
you don’t have to think about changing lever strokes because **HYDRAUMIND**—instantly, silently and automatically sends just the right amount of oil to the actuators, at just the right pressure to accommodate the change.

When you move boom, arm and bucket at the same time...
all the equipment works naturally with the optimum combination of speed, and power as if it was a human hand.

**HYDRAUMIND** also makes it easy to change or add valves and work equipment.

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**Diagram:**

- Bucket cylinder
- Arm cylinder
- Pressure compensated valves
- Control valves
- Engine
- Pumps
- Servo & load sensing valves
- Boom cylinders
- Swing motor
- Travel motors

In the HydrauMind system the load sensing valves and pressure compensated valves automatically handle all adjustments for individual work applications based on the pressure and lever stroke they sense.
**Easy Operation**

- **POWER MAX**
  The Power Max function gives a temporary burst of maximum power to break through tough digging conditions.

- **ACTIVE MODE**
  The unique active mode function boosts work equipment speed in high load applications to greatly reduce cycle times.

- **ACTIVE POWER MAX**
  The exclusive Active Power Max function combines the increased digging force of Power Max with the speed of the Active Mode.

**Clock**
Also used to display diagnostic information during servicing.

**Service meter**

**Travel speed**
3-speed fully automatic travel. Automatically changes from High to low when travelling up steep slopes and can be locked in to low for safe descents and manoeuvring.

**Water temperature**

**Fuel gauge**

**Warning lights**
The operator is immediately warned of any major problems.

**Auto deceleration**
When selected, automatically reduces engine speed after a short period if the wrist control levers are in neutral.

**L.O. mode**
Lifting is easy because the system keeps work equipment speed at a steady constant no matter what size the load.

**H.O. mode**
Designed for Heavy-duty Operation.

**G.O. mode**
Designed for General-digging Operation.

**F.O. mode**
Designed for Finishing Operation.

**B.O. mode**
Designed for Breaker Operation.

**Service meter**

**Water temperature**

**Fuel gauge**

**Warning lights**
The operator is immediately warned of any major problems.

**Auto deceleration**
When selected, automatically reduces engine speed after a short period if the wrist control levers are in neutral.
Comfortable Operation

OUTSTANDING OPERATOR COMFORT

The cab offers unparalleled space for the driver. There is generous leg and head room, and space to stow personal goods in a compartment behind the seat.

The multi-adjustable seat can be set to create the ideal individual working position for any operator, and this adds up to superb operator comfort.

The smooth action, short lever stroke requires only gentle pressure. Excellent all-round visibility is provided by large, panoramic windows. Moreover an excellent view of the attachments can be obtained via a wide-opening roof hatch.

The cab also features a wiper that is mounted directly onto the cab frame, a Komatsu patented design feature. When the wiper is turned off, it is stowed to one side, with no contact with the actual windscreen. This means that if the operator needs to open the front windscreen he doesn’t first have to disconnect the wiper.

Using the benefits obtained from HydraulMind the operator can with the minimum of effort perform precision work from a position of complete comfort. The position of the rotatable monitor display can be easily adjusted, and an inclined dashboard places switches and the fuel control dial within easy reach and view.

The tiltable, height-adjustable semi-bucket seat provides, superb operator comfort - even when the machine is working long hours in tough conditions. The operator can select virtually any seat position to suit himself so that all instruments and controls are within easy reach. The high quality finish of the cab interior - including effective noise insulation - reduces operator fatigue significantly.

Easy Serviceability

SELF-DIAGNOSTICS

The Monitor panel incorporates a sophisticated diagnostic system. If a serious fault develops the operator is warned immediately, whereas more minor problems are stored in the memory to be checked by service staff later. The memory can be extremely useful for service staff to diagnose intermittent problems. Diagnosis is further assisted by using the facility to display the operating condition of the machine, for example engine speed and pump pressures.

ACCESSIBLE SERVICE LOCATIONS

The operator and service staff can safely climb onto the machine using the large handrails, and all service items can be easily accessed using the wide opening doors and hoods. Routine maintenance has been simplified by relocating the radiator and window washer bottles to allow fluid checks from ground level.
SPECIFICATIONS

ENGINE

Model: Komatsu 54D102E
Type: 4-cycle, water-cooled, direct-injection
Aspiration: Turbocharged
No. of cylinders: 4
Bore: 102 mm
Stroke: 120 mm
Piston displacement: 3.92 ltr.
Flywheel horsepower: 64 kW (86 HP) at 2200 RPM
Governor: All-speed, mechanical

DRIVES & BRAKES

Steering control: Two levers
Drive method: Fully hydrostatic type
Travel motor: Axial piston motor, in-shoe design
Reduction system: Eccentric differential, planetary reduction
Max. drawbar pull: 10200 kg (100 kN)
Max. travel speed LO/Hi: 2.7 / 5.5 km/h
Service brake: Hydraulic lock type
Parking brake: Oil disc brake

HYDRAULIC SYSTEMS

Type: HydraulMind (Hydraulic Mechanical Intelligence New Design) system
Main pump:
Type: Variable displacement piston pump
Pump for:
- Boom, arm, bucket, swing and travel circuits
- Swing circuit
- Travel circuit
Sub-pump for control circuit: Gear pump
Hydraulic motors:
- 2 x Axial piston motor with parking brake
- 1 x Axial piston motor with swing holding brake
Relief valve setting:
- Implement circuits: 325 kg/cm²
- Travel circuit: 325 kg/cm²
- Swing circuit: 275 kg/cm²
- Pilot circuit: 30 kg/cm²
Hydraulic cylinders:
- Number of cylinders - bore x stroke:
  - Boom: 2 - 105 mm x 990 mm
  - Arm: 1 - 115 mm x 1175 mm
  - Bucket: 1 - 95 mm x 865 mm

UNDERCARRIAGE

Center frame: X-frame
Seal of track: Sealed track
Track adjuster: Hydraulic type
No. of shoes: 42 each side
No. of track rollers: 7 each side

COOLANT & LUBRICANT CAPACITY

Fuel tank: 230 ltr.
Radiator: 18.2 ltr.
Engine: 16.0 ltr.
Final drive, each side: 2.5 ltr.
Sweep drive: 2.5 ltr.
Hydraulic tank: 100 ltr.

SWING SYSTEM

Driven by: Hydraulic motor
Swing reduction: Planetary double reduction
Swing circle lubrication: Grease-bathed
Swing lock: Oil disc brake
Swing speed: 12.0 RPM

STEERING

Steering/travelling controls are activated with either hand levers or foot pedals. Pushing both levers (or pedals) moves machine forward. Pulling them back makes machine go into reverse. Setting one lever (or pedal) in neutral and the other in forward enables machine to make a pivot turn. Pushing one forward while pulling the other backward makes machine counterrotate on the spot.

OPERATING WEIGHT

Operating weight including 4600 mm one-piece boom, 2900 mm arm HCU, 0.68 m³ bucket, operator, lubricant, coolant and full fuel tank: 13,050 kg.

CAB

Sound-insulated all-weather steel cab, safety glass windows, pull-up front window, lockable door, window wiper, electric horn, cab lamp, adjustable suspension seat with reclining devices, monitor system and gauges.
Dynamic low noise level: LWA101
LPA 77
WORKING RANGES

PC130-6

<table>
<thead>
<tr>
<th>Arm length</th>
<th>2100 mm</th>
<th>2500 mm</th>
<th>2900 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. digging height</td>
<td>8345 mm</td>
<td>8610 mm</td>
<td>8970 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>5905 mm</td>
<td>6170 mm</td>
<td>6535 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>5115 mm</td>
<td>5520 mm</td>
<td>6015 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>4520 mm</td>
<td>4940 mm</td>
<td>5360 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 2500 mm</td>
<td>4875 mm</td>
<td>5315 mm</td>
<td>5835 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>7925 mm</td>
<td>8290 mm</td>
<td>8785 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>7795 mm</td>
<td>8170 mm</td>
<td>8665 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>2290 mm</td>
<td>2330 mm</td>
<td>2485 mm</td>
</tr>
<tr>
<td>Bucket digging force*</td>
<td>8500 kg</td>
<td>8500 kg</td>
<td>8500 kg</td>
</tr>
<tr>
<td>Arm crowd force*</td>
<td>7500 kg</td>
<td>6300 kg</td>
<td>5250 kg</td>
</tr>
</tbody>
</table>

* At power max.
When removing bucket, linkage or cylinder, lifting capacities can be increased by their respective weights.

- Reach from swing center
- Bucket hook height
- Rating over front
- Rating over side
- Rating at maximum reach

**LIFTING CAPACITIES**

**PC130-6**

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

- Reach from swing center
- Bucket hook height
- Rating over front
- Rating over side
- Rating at maximum reach

<table>
<thead>
<tr>
<th>Arm length</th>
<th>A</th>
<th>7.0 m</th>
<th>6.0 m</th>
<th>4.5 m</th>
<th>3.0 m</th>
<th>1.5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0 m kg</td>
<td>*1500</td>
<td>*1500</td>
<td>*2350</td>
<td>2250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.5 m kg</td>
<td>*1350</td>
<td>*1350</td>
<td>2100</td>
<td>1650</td>
<td>*2750</td>
<td>2250</td>
</tr>
<tr>
<td>3.0 m kg</td>
<td>*1350</td>
<td>1350</td>
<td>2050</td>
<td>1650</td>
<td>2750</td>
<td>2200</td>
</tr>
<tr>
<td>1.5 m kg</td>
<td>*1450</td>
<td>1250</td>
<td>2000</td>
<td>1550</td>
<td>2600</td>
<td>2050</td>
</tr>
<tr>
<td>0.0 m kg</td>
<td>*1600</td>
<td>1250</td>
<td>1900</td>
<td>1500</td>
<td>2500</td>
<td>1950</td>
</tr>
<tr>
<td>-1.5 m kg</td>
<td>1750</td>
<td>1350</td>
<td>1900</td>
<td>1450</td>
<td>2400</td>
<td>1850</td>
</tr>
<tr>
<td>-3.0 m kg</td>
<td>2150</td>
<td>1650</td>
<td>2400</td>
<td>1850</td>
<td>3800</td>
<td>2900</td>
</tr>
<tr>
<td>-4.5 m kg</td>
<td>*3150</td>
<td>2450</td>
<td>3900</td>
<td>3000</td>
<td>*6400</td>
<td>5650</td>
</tr>
</tbody>
</table>

* 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.

**BUCKET AND ARM COMBINATION**

<table>
<thead>
<tr>
<th>Bucket capacity (heaped)</th>
<th>Width without side cutters</th>
<th>Weight without side cutters</th>
<th>No. of teeth</th>
<th>Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE, PCSA</td>
<td>CECE</td>
<td>Width</td>
<td>Weight</td>
<td>No.</td>
</tr>
<tr>
<td>0.24 m³</td>
<td>0.22 m³</td>
<td>450 mm</td>
<td>575 mm</td>
<td>314 kg</td>
</tr>
<tr>
<td>0.28 m³</td>
<td>0.26 m³</td>
<td>550 mm</td>
<td>675 mm</td>
<td>339 kg</td>
</tr>
<tr>
<td>0.35 m³</td>
<td>0.33 m³</td>
<td>600 mm</td>
<td>725 mm</td>
<td>367 kg</td>
</tr>
<tr>
<td>0.47 m³</td>
<td>0.43 m³</td>
<td>750 mm</td>
<td>875 mm</td>
<td>419 kg</td>
</tr>
<tr>
<td>0.59 m³</td>
<td>0.53 m³</td>
<td>900 mm</td>
<td>1025 mm</td>
<td>469 kg</td>
</tr>
<tr>
<td>0.68 m³</td>
<td>0.61 m³</td>
<td>1000 mm</td>
<td>1125 mm</td>
<td>497 kg</td>
</tr>
</tbody>
</table>

These charts are based on over-side stability with fully loaded bucket at maximum reach. Please consult your local dealer for the bucket range available in your region.

- Material weight up to 1.6 t/m³
- Material weight up to 1.5 t/m³
- Material weight up to 1.2 t/m³
- Not for use
HYDRAULIC EXCAVATOR

PC130-6

GENERAL DIMENSIONS

| A | Overall width of upper structure with mirror & handrail | 2760 mm |
| B | Overall width of upper structure | 2455 mm |
| C | Overall height of cab | 2715 mm |
| D | Overall length of basic machine | 3860 mm |
| E | Tail length / tail swing radius | 2130 mm |
| F | Clearance under counterweight | 855 mm |
| G | Machine tail height | 1805 mm |
| H | Ground clearance | 400 mm |
| I | Track length on ground | 2750 mm |
| J | Track length | 3480 mm |
| K | Track gauge | 1960 mm |
| L | Track shoe width | 500, 600, 700 mm |
| M | Overall track width with 500 mm shoe | 2460 mm |
| N | Overall track width with 600 mm shoe | 2560 mm |
| O | Overall track width with 700 mm shoe | 2660 mm |

TRANSPORT DIMENSIONS

<table>
<thead>
<tr>
<th>Arm</th>
<th>2100 mm</th>
<th>2500 mm</th>
<th>2900 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>7590 mm</td>
<td>7595 mm</td>
<td>7510 mm</td>
</tr>
<tr>
<td>O</td>
<td>4515 mm</td>
<td>4250 mm</td>
<td>4090 mm</td>
</tr>
<tr>
<td>P</td>
<td>2620 mm</td>
<td>2715 mm</td>
<td>3075 mm</td>
</tr>
</tbody>
</table>

COMPONENTS DIMENSIONS AND WEIGHTS

PC130-6

Specifications and equipment may vary according to regional availability

(APPROXIMATE WEIGHTS)

<table>
<thead>
<tr>
<th>Shoe width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mm</td>
<td>10360 kg</td>
</tr>
<tr>
<td>600 mm</td>
<td>10550 kg</td>
</tr>
<tr>
<td>700 mm</td>
<td>10730 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4738 mm</td>
<td>4600 mm</td>
<td>1310 mm</td>
<td>1060 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1400 mm</td>
<td>170 mm</td>
<td>80 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arm</th>
<th>2.1 m</th>
<th>2.5 m</th>
<th>2.9 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2860 mm</td>
<td>3270 mm</td>
<td>3770 mm</td>
</tr>
<tr>
<td>B</td>
<td>2100 mm</td>
<td>2560 mm</td>
<td>2900 mm</td>
</tr>
<tr>
<td>C</td>
<td>635 mm</td>
<td>575 mm</td>
<td>640 mm</td>
</tr>
</tbody>
</table>

| Weight | 440 kg | 460 kg | 610 kg |
KOMATSU CRAWLER EXCAVATOR SERIES PC130-6

STANDARD EQUIPMENT

- Air cleaner, dry type with auto dust evacuator and dust indicator
- Alternator, 25 A
- Auto decelerator
- Automatic engine warm-up system
- Automatic de aeration for fuel line
- Batteries (2 x 12 volt, 80 Ah)
- Boom cylinder safety valve
- Cab: all-weather sound suppression type with safety glass windows, pull-up type front window with lock device, removable lower windshield, lockable door, floor mat, windshield wiper with intermittent feature, cigarette lighter and ashtray.
- Control levers (adjustable wrist control with PPC system)
- Cooling fan: suction
- Drive system: hydrostatic, high-low travel system with auto-shift
- Engine overheat prevention system
- Fuel control dial
- Heater
- Horn, electric
- HydraulMind and Electronic Closed-centre Load Sensing System (ECLSS)
- Hydraulic track adjusters
- Active mode
- Instrument panel: Electronic Monitor and Control Console (EMACC) system
- 1-Piece Boom
- Active power maximizing system
- Working mode selection system
- Radiator & oil cooler with dust net
- Rearview mirrors (RH & LH)
- Fully adjustable suspension seat
- Starting motor: 24 volt, 4.5 kW direct electric
- Vandalism protection locks

OPTIONAL EQUIPMENT

- Airconditioner
- Additional hydraulic circuit
- Arm cylinder safety valve
- Dozer blade
- Heated seat
- Fire extinguisher
- Fuel supply pump
- Radio-cassette
- Track roller guards
- Additional work lamps

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