OIL PALM EXPERT

With a thorough knowledge of palm plantations, KOBELCO has newly developed SK50P having further improved durability. The exclusive feature for palm plantations has been enhanced and expanded based on experience and know-how gained through the development of two models since SK40SR.

iNDr Cooling System

The revolutionary integrated dust reduction cooling system

The iNDr filter fitted in front of the cooling system ensures easy cleaning. The iNDr system on the SK50P features air intake at the front of the machine and air exhaust underneath. It functions in the same way as the iNDr System on the SR series machines.

Visual checking and easy cleaning

Because the iNDr filter removes dust from the intake air, cooling components stay dirt-free and do not require regular cleaning. The iNDr filter itself can be easily removed and cleaned without the use of tools.

iNDr filter

The stainless-steel filter is extremely effective against dust, with 30-mesh wave-type screen that removes tiny dust particles from the intake air.

iNDr filter blocks out dust

Outside air goes directly form the intake duct through the iNDr filter for dust removal.

30-mesh means that there are 30 holes formed by horizontal and vertical wires in every square inch of filter.
The boom, arm and swing bracket all have large cross-section segments for added attachment strength. This is complemented by a high-strength power line and enhanced cooling function for ever more solid power.

**Guard for tropical areas**

This guard is designed to allow a large air intake port.

**Cabin structure**

The high-strength cab meets all three TOPS, ROPS, and FOPS Level I standards for greater operator safety. (ROPS: ISO3471 / TOPS: ISO12117 / FOPS ISO:10262). The four-pillar canopy ensures plenty of space enabling the operator to work comfortably.

**Large radiator**

The high performance radiator with a wide heat exchange area has excellent cooling performance to operate the high-output engine at its best.

**Swing bracket**

Large, thick cast-iron swing bracket/front bracket.

**Reinforced boom and arm**

A reinforced arm is fitted as standard. High-grade steel, which combines less weight with greater bending strength, is used. As with the arm, the boom has increased bending strength in the longitudinal direction though having the largest cross section area in the class. Under tough working conditions using a nibbler etc., it prevents cracking and other damage to the boom and arm over long working periods, and helps maintain a good price in the used machine market.

**Bucket link**

Cast-iron idler link provide greater strength.

**Fuel filter**

The main fuel filter and pre-filter prevent engine problems due to fuel contamination.

**Dust seal protective cover**

The standard feature of the protective cover guards the dust seals (for the bucket and arm) from the edges of hard palm tree leaves.

**Overheat prevention alarm**

This newly installed alarm warns operator of rise in radiator temperature, to eliminate risk of overheating.
Compact, yet, Big Performance

Combination of wide working range and compact body ensures big performance for the palm work

**Powerful digging**

Digging silt pits is an essential part of work to increase the palm harvest. The high-power engine gives the operator the feel of powerful operation and ensures a short digging cycle time. Increased hourly digging rate allows more work done by the end of the day.

- **Bucket digging force:** 35.2 kN
- **Arm crowding force:** 28.0 kN

**Easy transportability**

With an overall height of 2,530 mm, the machine is designed for easy transport.

- **Overall height:** 2,530 mm

**Plenty of lifting power**

The heavier counterweight provides greater stability, with lifting power to spare.

- **Lifting power:** 0.8 tons at 4.0 m

**Wide working range**

The working range has been increased to meet work site requirements. It enables the efficient digging of silt pits.

- **Max. digging reach:** 5,980 mm

**Short tail swing**

The boom swing function enables the excavator to operate at the very edge of a road. The minimized tail overhang allows efficient work at narrow sites.

- **Tail overhang:** 190 mm

The tail overhang is 196 mm, which is within 10% of the machine width complying with the Japanese definition of SR (Short Radius).
The powerful travel torque and dozing performance with enhanced excellent fuel economy can provide significant benefits to palm plantations.

**Energy conservation mode**

The SK50P adopts S mode which enables 23% less fuel consumption compared with the previous model.

**Powerful travel**

The drawbar pulling force of 56.1 kN allows easy travel on marshy ground and grades. With this feature, the SK50P can travel smoothly across large plantations at a travel speed of up to 3.7 km/h.

- **Drawbar pulling force:** 55.1 kN
- **Travel speed:** 3.7 km/h

**Travel Switch**

The travel lever is fitted with a button for easy switching to H-Mode travel.

**Unique dozer dumping soil without spilling**

The large, curved dozer blade uniquely developed by KOBELCO does not spill soil. It makes it easy to construct paths for delivering palm.
Comfortable Work Environment

Spacious work environment
The newly designed, rectangular cab is over 820 mm wide, with optimized control layout for comfortable, easy operation. A greater window area further improves visibility. A clear view is provided at the rear, and there's also more floor space, with a seat that slides further to ensure plenty of leg room.

Plenty of foot room
Generous space below facilitates pedal operation.

Travel pedals included as standard
SK50P comes equipped with travel pedals as standard equipment, thereby facilitating immediate escape from the marshy ground. A lever and foot pedal combination allows simultaneous operations.

Control panel
The monitor display panel is installed at an easy-to-read angle.

Work light
A work light has been installed to provide a clear view during nighttime operations.

Hour meter
The hour meter is on the wall low down to the right of the operator's seat. It can be checked while standing on the ground.
Easy Daily Maintenance

Start-up checks are essential for safe and reliable machine operation. All start-up checks can be performed at ground level, with an easy-to-understand layout and cover design that simplify access and save time.

Easy access to component under the seat

- Two-piece floor mats for easy washing
- Hour meter

Easy access to engine compartment

- High-grade fuel filter
- Pre fuel filter with built-in water separator
- Air cleaner

Large-capacity fuel tank

The 75-liter fuel tank enables extended, continuous operation.

Easy access to cooling unit

Concentrated equipment layout on the right deck makes the daily maintenance easier than ever.

Radiator not readily clogged

The radiator now has a wavy fin design that does not readily become clogged. Making the engine produce its maximum performance.
SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SK50P-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>SK50P-6</td>
</tr>
<tr>
<td>Operating Mass / Canopy</td>
<td>kg</td>
</tr>
<tr>
<td>Bucket Capacity (ISO/451)</td>
<td>m³</td>
</tr>
<tr>
<td>Bucket Width (with side cutter)</td>
<td>mm</td>
</tr>
<tr>
<td>Arm Length</td>
<td>m</td>
</tr>
<tr>
<td>Bucket Digging Force (ISO451)</td>
<td>kNm</td>
</tr>
<tr>
<td>Arm Crowding Force (ISO451)</td>
<td>kN</td>
</tr>
<tr>
<td>Drawbar Pulling Force (SAE J1369 MAY91)</td>
<td>kN</td>
</tr>
<tr>
<td>ENGINE</td>
<td>4NMMR 4TN/88-B</td>
</tr>
<tr>
<td>Type</td>
<td>Water-cooled, 4 cycle, 4 cylinder direct injection type diesel engine</td>
</tr>
<tr>
<td>Power Output</td>
<td>kW/min² (ISO1425)</td>
</tr>
<tr>
<td>Max. Torque</td>
<td>Nm/min² (ISO1425)</td>
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<tr>
<td>Power Output</td>
<td>kW/min² (ISO9249)</td>
</tr>
<tr>
<td>Max. Torque</td>
<td>Nm/min² (ISO9249)</td>
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<tr>
<td>Displacement</td>
<td>mL</td>
</tr>
<tr>
<td>Fuel Tank</td>
<td>L</td>
</tr>
</tbody>
</table>

HYDRAULIC SYSTEM

| Type | Tandem variable displacement piston pumps |
| Max Flow | L/min |
| Relief Valve Setting | MPa (kg/cm²) |
| Hydraulic Oil Tank (System) | L |

TRAVEL SYSTEM

| Type | 2 - axial piston type |
| Travel Brake | Hydraulic brake per motor |
| Parking Brake | Oil disk brake per motor |
| Travel Speed (High/Low) | km/h |

CRAWLER

| Type | mm |
| Shoe Width | 400 |
| Ground Pressure Canopy | kPa (g/cm²) |

BLADE

| Width × Height | mm |
| Swing System (Height × Depth) | mm |
| Swing Speed | m/min (rpm) |
| Tail Swing Radius | mm |
| Min. Front | Over the front |
| Swing Radius | Over the front at full boom swing |

SIDE DIGGING MECHANISM

| Type | Boom swing |
| Offset Angle | degree |

WORKING RANGE & DIMENSIONS

LIFTING CAPACITIES

Canopy Specification

<table>
<thead>
<tr>
<th>SK50P-6</th>
<th>2.0 m</th>
<th>3.0 m</th>
<th>4.0 m</th>
<th>5.0 m</th>
<th>At max. reach</th>
<th>Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2 m</td>
<td>1,150*</td>
<td>1,140</td>
<td>790</td>
<td>690</td>
<td>740</td>
<td>4.14 m</td>
</tr>
<tr>
<td>3.6 m</td>
<td>1,220</td>
<td>1,240</td>
<td>860</td>
<td>760</td>
<td>510</td>
<td>3.11 m</td>
</tr>
<tr>
<td>2.5 m</td>
<td>1,110</td>
<td>940</td>
<td>710</td>
<td>610</td>
<td>480</td>
<td>2.05 m</td>
</tr>
<tr>
<td>1.6 m</td>
<td>1,080</td>
<td>910</td>
<td>690</td>
<td>590</td>
<td>500</td>
<td>2.00 m</td>
</tr>
<tr>
<td>G. L.</td>
<td>2,210</td>
<td>1,860</td>
<td>1,090</td>
<td>920</td>
<td>810</td>
<td>3.56 m</td>
</tr>
<tr>
<td>1.9 m</td>
<td>2,310</td>
<td>1,960</td>
<td>1,330</td>
<td>950</td>
<td>810</td>
<td>3.51 m</td>
</tr>
<tr>
<td>2.9 m</td>
<td>2,380</td>
<td>2,030</td>
<td>1,200</td>
<td>900</td>
<td>810</td>
<td>3.46 m</td>
</tr>
</tbody>
</table>

Notes:
1. Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and height. Weight of all accessories must be deducted from the above lift capacities.
2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for soil conditions such as soft or uneven ground out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.
3. Lift capacities are for machine with operating weight, attachments, and personnel as specified. Lift capacities are given in metric tons and are subject to change without advance notice.

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