KUBOTA TIGHT TAIL SWING COMPACT EXCAVATOR

U27-4

Compact and durable enough to tackle demanding tasks in tight working conditions with ease.

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>U27-4</th>
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</thead>
<tbody>
<tr>
<td>Type of ROPS/FOPS</td>
<td>Canopy / Cab</td>
</tr>
<tr>
<td>Type of tracks</td>
<td>Rubber</td>
</tr>
</tbody>
</table>

**Engine**

<table>
<thead>
<tr>
<th>Model</th>
<th>Kubota D1105-BH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output (SAE J1996 gross)</td>
<td>HP (kW)/rpm</td>
</tr>
<tr>
<td>Output (SAE J1994 net)</td>
<td>20.9 (15.6) / 2400</td>
</tr>
<tr>
<td>Displacement</td>
<td>66.5 (1123)</td>
</tr>
</tbody>
</table>

**Dimensions**

| Overall height Canopy / Cab ft. (mm) | (615) |
| Overall width ft. (mm)           | (1560) |
| Min. ground clearance in. (mm)   | (1500) |

**Hydraulic system**

| GPM (l/min) | 7.6 (28.8) x 2 / 7.5 (19.2) x 1 |

**Drive system**

| Max. breakout force Bucket / Arm lbs. (kgf) | 7014 (3180) / 2777 (1260) |

**Swing system**

| Boom swing angle Left / Right degree | 75 / 55 |

**Blade**

| Width ft. (mm) | 4'11" (1500) |
| Height ft. (mm) | 12.1" (307) |
| Max. lift above ground in. (mm) | 14.2" (360) |
| Max. drop below ground in. (mm) | 12.6" (320) |

**Fuel reservoir**

| (gal l) | Canopy Rubber | 8.7 (33) |
| (gal l) | Cab Rubber    | 9.06 (35) |

**Operating weight (includes operator weight 175lbs.)**

| Canopy Rubber lbs. (kgf) | 5688 (2580) |
| Cab Rubber lbs. (kgf)    | 5906 (2680) |

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The U27-4 gets the job done where larger excavators can't maneuver. The tight-tail swing lets you travel through and turn smoothly in tight spaces with ease. Powerful digging forces combined with the ability to simultaneously operate the pilot controlled hydraulic functions make the work day more productive.

**SUPERIOR PERFORMANCE**

**Kubota original engine**
The U27-4 is powered by a proven Kubota tier 4 final diesel engine. The engine power is matched with the abilities of the hydraulic system to maximize digging and lifting performance. Operators also benefit from the minimal noise and vibration.

**Auto-shift**
The auto-shift automatically shifts travel speed from high to low, depending on traction and terrain, allowing smoother operation when dozing and turning.

**Tight tail swing**
The U27-4’s tight tail swing proves to be highly versatile when operating in confined conditions. An operator can be confident there is less chance for damage to the machine or surroundings due to the tight tail swing design.

**Third-line hydraulic return**
When working with one-way hydraulic attachments, such as a breaker or brush cutter, the standard third-line hydraulic return system allows oil flow directly to the tank without having to return oil back through the main control valve. This simple flow return system provides greater flow efficiency, reduced back pressure and less heat. 

**AUX diverter valve**
The diverter valve allows the hydraulic thumb attachment to remain connected while diverting oil flow to other auxiliary attachments when needed, reducing transition time between attachments and improving overall productivity.

**Powerful digging force**
The U27-4 delivers an impressive bucket digging force of 7014 lbs. The powerful and well-balanced arm and bucket design allows the operator to dig faster, deeper (9’5”/2870 mm) and more efficient even in the toughest conditions. The working range for reach and dig depth are best in class that operators will appreciate in terms of daily productivity.

**Simultaneous operation**
Many jobs require the simultaneous operation of the boom, arm, bucket, and swivel for efficient operations. There are two variable displacement pumps that distribute a correct amount of oil flow to each function according to the joystick lever stroke. The ability of simultaneous operation enables continuous high production while performing multiple functions.

**Proportional flow control of auxiliary circuit**
The thumb-operated switch on the right joystick allows easy proportional flow control of the AUX circuit. In addition, the small dial on top of the meter panel adds even more controllability, the oil flow can be adjusted up to 12.7GPM.
SPACIOUS CAB AND DELUXE INTERIOR

The large cab* offers a wider entrance, greater leg room, more floor space and a luxurious interior to make the work day more comfortable. Operability is greatly enhanced with more easy-to-use features than ever before. *Heater only

**Large operator’s station**

With a large and comfortable operator’s station, the U27-4 offers an extra level of comfort and convenience that operators are sure to appreciate during long jobs.

**New front meter panel**

The new user-friendly front meter panel puts convenience at your fingertips. Positioned to the front right corner of the operator for better visibility and accessibility, it features easy one-touch button operation to view the time, hour meter and tachometer. Warning lamps with codes on the display will alert you of machine conditions such as overheating, hydraulic system monitoring or a low battery.

1. Fuel Level Gauge  
2. Water Temperature Gauge  
3. Warning Lamps  
   (Engine oil pressure, Battery charge, Coolant temperature)  
4. LCD Display (Time, Hour, rpm)

**Easy-open front slide window**

Unlike many excavator windows, the front glass window of the U27-4 opens with ease. Just flip the latches on the window sides and slide it up. A gas-assist mechanism makes this action almost effortless.

**Easy Cab entry and exit**

The wide cab entrance allows quick access in and out for those jobs where you spend your day continually on the move.

**TPSS**

The Two-Pattern Selection System positioned under the seat allows the operator to shift control styles conveniently while seated. A simple turn of a switch is all it takes to select between the ISO pattern and the SAE backhoe pattern. This standard feature allows operators to choose their preferred choice of operation for comfort and efficiency.
MAINTENANCE & SAFETY

With the U27-4, operators can work with confidence knowing they are protected by the ROPS/OPG on both the open station or optional enclosed cab. Furthermore, the engine compartment is ergonomically organized with easy access to the radiator and engine oil cooler to make routine maintenance and inspections a breeze.

**ROPS/OPG (Top guard, Level I) canopy and cabin**
The ROPS/OPG (Top Guard, Level I) canopy / cabin provides protection in the event of accidental rollovers and falling objects.

- **A.** Battery
- **B.** Radiator
- **C.** Oil cooler
- **D.** Air cleaner
- **E.** Engine coolant reservoir tank
- **F.** Fuel filter
- **G.** Water separator
- **H.** Cup holder
- **I.** Tool storage space

**Travel lock system**
The travel lock system locks the tracks to prevent inadvertent movement of the machine. This keeps the excavator secure during transport or while parked on slopes.

**Swivel negative brake**
The swivel negative brake automatically locks the swivel function in its current position. This prevents unexpected machine movement. It’s particularly useful during work on slopes or when transporting the excavator between worksites.

**Protected cylinder hoses**
The cylinder hoses for arm and bucket are installed on the track frame, swivel frame, and the dizer.

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**U27-4 EQUIPMENT**

**STANDARD EQUIPMENT**

**Safety system**
- Travel lock system
- Fully locked hydraulic system
- Swivel negative brake
- Tie down brackets

**Working equipment**
- 2 working lights on cab and 1 light on the boom
- Auxiliary hydraulic circuit 1 with proportional control on right control lever
- Thumb bracket and relief valve
- Dizer Blade

**Operator’s space**
- ROPS/OPG (Top Guard Level I) canopy
- Weight adjustable suspension seat
- Retractable seat belt
- Hydraulic pilot control levers with wrist rests
- Front meter panel with diagnosis function

**Engine/Fuel system**
- 12V power outlet
- Two pattern selection system
- Cup holder
- Horn

**Undercarriage**
- 11’8" (350mm) rubber track
- Double flange track roller
- 2 speed travel switch on dizer lever
- 2 speed travel with auto-shift

**Hydraulic system**
- Variable displacement pump
- Hydraulic pressure checking ports
- Pressure accumulator
- Straight travel circuit
- Third line hydraulic return

**OPTIONAL EQUIPMENT**
- Cab with heater only
- Travel alarm
- Canopy lights
- Cab mirror
- Travel foot pedal
- Spark Arrestor muffler
- 3” Seat Belt
- Cab Radio

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**WORKING RANGE**

<table>
<thead>
<tr>
<th>Model</th>
<th>U27-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Max. digging height ft. in. (mm)</td>
<td>14’9” (4490)</td>
</tr>
<tr>
<td>B. Max. dumping height ft. in. (mm)</td>
<td>10’0” (3040)</td>
</tr>
<tr>
<td>C. Max. digging depth ft. in. (mm)</td>
<td>9’5” (2870)</td>
</tr>
<tr>
<td>D. Max. vertical digging depth ft. in. (mm)</td>
<td>7’8” (2340)</td>
</tr>
<tr>
<td>E. Max. digging radius at ground ft. in. (mm)</td>
<td>15’4” (4680)</td>
</tr>
<tr>
<td>F. Max. digging radius ft. in. (mm)</td>
<td>12’6” (3780)</td>
</tr>
<tr>
<td>G. Min. turning radius ft. in. (mm)</td>
<td>6’8” (2030)</td>
</tr>
</tbody>
</table>

**LIFTING CAPACITY**

<table>
<thead>
<tr>
<th>GL</th>
<th>Lift Point Radius (ft.)</th>
<th>Lift Point Radius (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1.09 0.99 0.94 0.90</td>
<td>1.09 0.81 0.61</td>
</tr>
<tr>
<td>4</td>
<td>1.40 1.17 1.01 0.80</td>
<td>1.10 0.70 0.62</td>
</tr>
<tr>
<td>2</td>
<td>1.84 1.34 1.00 0.76</td>
<td>1.05 0.76 0.58</td>
</tr>
<tr>
<td>0</td>
<td>2.60 1.44 1.13 0.74</td>
<td>1.02 0.74 0.58</td>
</tr>
</tbody>
</table>

**Lift Point Height (ft)**

<table>
<thead>
<tr>
<th>Lift Point Radius (ft.)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Unit: 1000 lbs.</td>
<td></td>
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</table>