Hitachi Orange Stands for High Productivity in Green Palm Plantations

**LOWER FUEL CONSUMPTION**

- ZX48U-5A P-mode VS. ZX48U-5A PWR mode
  - ZX48U-5A: 495% Reduced 4%
  - ZX48U-5A: 495%

- ZX48U-5A PWR mode VS. ZX48U-5A ECO mode
  - ZX48U-5A: 395% Reduced 10%
  - ZX48U-5A: 395%

**SIMPLIFIED MAINTENANCE**

- Parallel Arranged Cooling Package
  - Easier cleaning and improved cooling efficiency by a parallel arrangement

**OPERATOR COMFORT**

- Multi-Function Monitor
  - Using the multi-function monitor to facilitate viewing and operation

**Durability/Reliability/Safety**

- Reinforced upper rollers
  - The addition of reinforcing plates to upper rollers strengthens the undercarriage ever more, so the machine can move around on marshes and grades in wide palm plantations.
ENGINE
Model ...................... EDM-4TNV88
Type .......................... 4-cycle water-cooled, direct injection
No. of cylinders .......... 4
Rated power
ISO 9249, net .......... 28.2 kW (37.8 HP) at 2 400 min⁻¹ (rpm)
Piston displacement .... 2.189 L

HYDRAULIC SYSTEM
Hydraulic Pumps
Main pumps .............. 1 variable displacement axial piston pumps
Maximum oil flow ..... 1 x 120 L/min
Pilot pump ............... 1 gear pump
Maximum oil flow ...... 12.0 L/min

Hydraulic Motors
Travel ..................... 2 variable displacement axial piston motors
Swing ...................... 1 axial piston motor

Relief Valve Settings
Implement circuit ....... 24.5 MPa (250 kgf/cm²)
Swing circuit ............ 18.3 MPa (187 kgf/cm²)
Travel circuit .......... 24.5 MPa (250 kgf/cm²)
Pilot circuit ............. 5.9 MPa (60.2 kgf/cm²)

UPPERSTRUCTURE
Swing speed .............. 9.0 min⁻¹ (rpm)

UNDERCARRIAGE
Travel speeds .......... High : 0 to 4.2 km/h
Low : 0 to 2.5 km/h
Maximum traction force 38.3 kN (3 905 kgf)
Gradeability .......... 58% (30 degree) continuous

DIMENSIONS
Unit: mm

BUCKET AND ARM DIGGING FORCE

<table>
<thead>
<tr>
<th>Arm length</th>
<th>Bucket digging force ISO</th>
<th>Bucket digging force SAE : PCSA</th>
<th>Arm crowd force ISO</th>
<th>Arm crowd force SAE : PCSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.38 m</td>
<td>32.1 kN (3 270 kgf)</td>
<td>27.9 kN (2 850 kgf)</td>
<td>24.0 kN (2 450 kgf)</td>
<td>22.8 kN (2 330 kgf)</td>
</tr>
</tbody>
</table>

WEIGHTS AND GROUND PRESSURE
Operating Weight and Ground Pressure
Equipped with 2.68 m boom, 1.38 m arm and 0.14 m³ bucket (ISO heaped)

4-PILLAR CANOPY
Shoe type Shoe width  kg  kPa (kgf/cm²)
Grouser shoe 400 mm 4 650 26 (0.27)

CAB
Shoe type Shoe width  kg  kPa (kgf/cm²)
Grouser shoe 400 mm 4 780 27 (0.28)

SERVICE REFILL CAPACITIES
Fuel tank .......................................................... 70.0 L
Engine coolant ..................................................... 4.7 L
Engine oil ......................................................... 8.6 L
Travel device (each side) .................................... 0.9 L
Hydraulic system ................................................ 66.0 L
Hydraulic oil tank ............................................... 42.0 L

WORKING RANGES

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator’s Manual for proper operation.

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