

Engine output: **15.4 PS / 11.3 kW**

Machine weight: **1,650 kg**

**For Earth, For Life**  
**Kubota**

## KUBOTA ZERO-TAIL SWING MINI EXCAVATOR

# U17-3*α*



Kubota's U17-3 $\alpha$  ensures versatility and performance. Furthermore the High-Spec model delivers easier and precise operation by utilising AUX proportional flow control via a thumb switch on the joystick.



#### Kubota Engine

Kubota's unique E-TVCS (Three Vortex Combustion System) enables high-energy output, low vibration and low fuel consumption, while minimising exhaust emissions.

#### Outstanding Travel Performance

Kubota's U17-3 $\alpha$  delivers powerful performance and the use of short-pitched rubber crawlers helps minimise vibration during travel for improved operator comfort.



#### Working Range

Kubota has designed the U17-3 $\alpha$  to provide excellent digging depth and reach. The extended dozer length optimises the distance between the dozer and the bucket, making it fast and efficient to collect soil close to the machine. With its wide working range, the zero-tail swing U17-3 $\alpha$  can complete a variety of jobs productively.

*Buckets may vary by location.*

| Type                          | Standard Model | High-Spec Model |
|-------------------------------|----------------|-----------------|
| AUX Proportional Flow Control | -              | ●               |

# KUBOTA ZERO-TAIL SWING MINI-EXCAVATOR

# U17-3 $\alpha$

## Zero-tail Swing

Kubota's zero-tail swing makes the U17-3 $\alpha$  an advanced mini excavator. The 360° swivel, excellent stability and smooth control, combined with unmatched power and efficiency, mean there are no limits to what you can accomplish — even in heavy traffic areas and inside buildings.

## Protected Front & Auxiliary Hoses

Front cylinder hoses are routed through the boom for increased protection, extended service life and greater operator visibility. Also, the auxiliary hoses extend only to the top of the arm to protect them from potential damage during narrow-width bucket use.

## 2-Piece Hose Design

The two-piece hose configuration on both dozer and boom cylinders reduce hose replacement time.

## Adjustable Track Gauge

For an increase in stability, the U17-3 $\alpha$ 's tracks can be expanded to a maximum 1,240 mm. When retracted to 990 mm, you can pass through narrow doorways and tight work areas. And on both ends of the dozer, dozer blade extensions are standard.





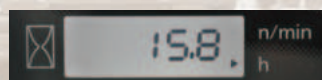
## DIGITAL PANEL

Following the excellence of Kubota's Control System, the digital panel puts convenience at the operator's fingertips. The user-friendly digital panel is positioned to the right side of the operator and features one-touch button operation to view the time, hour meter and tachometer. Warning lamps with code numbers on the display will alert you in case of emergencies such as overheating, hydraulic problems or low battery. Programming of the anti-theft keys can also be easily performed with the digital panel. With easier access, simpler settings, easy-to-read indicators and alerts, you'll always be aware of the excavator's functioning status.

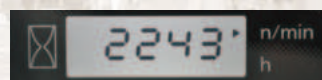
- 1. Fuel Level Gauge
- 2. Water Temperature Gauge
- 3. Warning Lamps (Overheating, Hydraulic, Battery)
- 4. LCD Display (Time, Hour, rpm)



Time



Hour meter



Tachometer



### 2-Speed Travel Switch on Dozer Lever

The dozer lever features a 2-speed travel switch, which allows the operator to easily select between power or travel speed during levelling work, depending on the load.

### AUX oil flow with proportional flow control (High-Spec model only)

Thumb-operated switches provide quick and easy proportional flow control for AUX1.



### ROPS/FOPS Canopy

Safety first. The canopy conforms to ROPS (Roll-Over Protective Structure) and FOPS (Falling Objects Protective Structure) Level 1 specifications, so that you can concentrate on what's important — your work.

### Straight Travel

Loading and unloading is safer due to a unique Kubota hydraulic system that provides straight travel, even during simultaneous operations.

## Long arm version

Reach further. Dig deeper. Extend your working range, increase your productivity and expand the kinds of jobs you can undertake with the U17-3 $\alpha$ 's long arm version. At an impressive 1100 mm, a full 150 mm longer than the standard arm version, the long arm version offers a surprising reach for an excavator this size. Kubota has also optimized the excavator's weight to ensure reliably stable operation.



### Boom Cylinder

The boom cylinder is situated above the boom for maximum protection, especially during breaker or dumping operation. Movement speeds of front attachments and lifting power have been well adjusted, thanks to the boom cylinder's large-diameter rod and optimal hydraulic pressure.

### Protected Motor Hoses

Kubota has enclosed the travel motor hoses within the track frame for added protection—a unique feature for mini excavators of this class.

## Easy Maintenance

When maintenance is simple, downtime is greatly reduced and you're more productive. With the U17-3 $\alpha$ , routine maintenance is easy—the rear bonnet, side covers and the under-seat cover open up without the need for tools. This allows for quick access to the engine oil gauge, radiator, battery, air and fuel filters, and much more. Accessing the under-deck hydraulics is also fast and easy, because there aren't any bolts to unscrew—just lift the rubber mat and open the floor plate. Plus, for extra strength and easier repairs, the U17-3 $\alpha$ 's bonnet and side covers are made of steel.



## Front Bush Pins

For increased durability, Kubota has included bushings throughout the U17-3 $\alpha$ 's pivot points on the swing bracket, as well as critical jointed points. And if necessary, the bushings can be easily replaced.



## ANTI-THEFT SYSTEM

The ultimate in security that's as easy as turning a key. It's the industry's first standard-equipped anti-theft system, and another original only from Kubota.

### THE SYSTEM

Introducing Kubota's simple and secure anti-theft system. Our one-key-system has an IC chip, which only starts the engine when the system recognises the appropriate key. Standard equipment includes one Red programming key, plus two Black operational keys. And up to four Black keys can be programmed. What's more, you get peace of mind knowing your construction equipment couldn't be in safer hands.

### EASY OPERATION

No special procedures needed. No PIN numbers needed. Just turn the key. Plus, our simple "one-key-security system" allows access to the cabin door and engine bonnet as well as the fuel tank.

### SAFETY/SECURITY

Only "programmed keys" will enable the engine to start. Even identically shaped keys can't start the engine unless they are programmed. In fact, attempting to start the engine with an un-programmed key will activate the system's alarm. This alarm will continue even after the un-programmed key is removed. It will only stop once a programmed key is inserted into the ignition and switched on to start the engine.

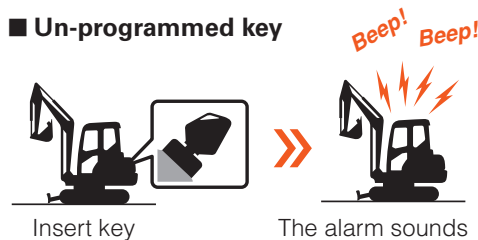
### EASY PROGRAMMING

One Red programming key and two pre-programmed Black operational keys come standard. If a Black key is misplaced, or if additional Black keys are needed (a maximum of two can be added), key programming is easy. Simply insert the Red key, followed by the Black keys.

#### Programmed key



#### Un-programmed key



## Standard Equipment

### Engine/Fuel System

- Kubota original engine
- Double-element air cleaner

### Undercarriage

- 230 mm rubber track
- 2-speed travel switch on dozer lever
- Variable track system
- 3 outer flange-type track rollers on each track

### Hydraulic System

- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third-line hydraulic return
- Variable displacement pump
- 1st auxiliary circuit (AUX1) via foot pedal control (For Standard-Spec)
- AUX 1 Proportional flow control of auxiliary circuit (For High-Spec)
- Adjustable maximum oil flow on AUX1 via digital panel (For High-Spec)

### Safety System

- Engine Start Safety System on left console
- Travel Lock System on left console
- Swivel Lock System
- Anti-theft system

### Working Equipment

- 950 mm arm
- Auxiliary hydraulic circuit piping to arm's end
- Working light on boom

### Canopy and Operating Area

- ROPS (Roll-Over Protective Structure, ISO 3471)
- FOPS (Falling Objects Protective Structure) Level 1
- Weight-adjustable, semi-suspension seat
- Seatbelt
- 12V power source
- Hydraulic pilot control levers with wrist rests

- Switch and harness for beacon light
- Digital Panel

### Others

- Tie down points on the top frame

## Optional Equipment

- 230 mm steel track (+ 70 kg)
- 1100 mm arm (+150 mm)

## Kubota Genuine and Approved Parts

for maximum performance, durability and safety



# SPECIFICATIONS

\*Rubber shoe type

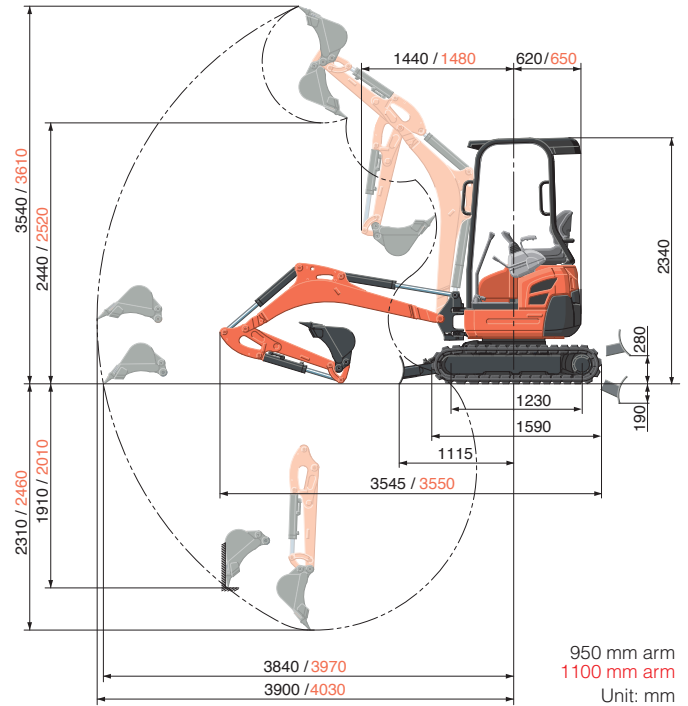
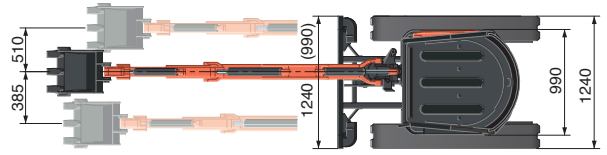
| Model                              |  | U17-3α   |                  |
|------------------------------------|--|--|------------------|
|                                    |  | Standard version                                 | Long arm version |
| Machine weight <sup>1</sup>        | kg   | 1650   | 1700             |
| Operating weight <sup>2</sup>      | kg   | 1725   | 1775             |
| Engine                             |  | D902-E4  |                  |
| Type                               |  | Water-cooled, diesel engine, E-TVCS              |                  |
| Output ISO9249 NET                 | PS/rpm   | 15.4 / 2300                                      |                  |
|                                    | kW/rpm   | 11.3 / 2300                                      |                  |
| Number of cylinders                |  | 3  |                  |
| Bore × Stroke                      |  | mm 72 × 73.6                                     |                  |
| Displacement                       |  | cc 898   |                  |
| Overall width                      |  | mm 990 / 1240                                    |                  |
| Overall height                     |  | mm 2340  |                  |
| Overall length                     |  | mm 3545   3550                                   |                  |
| Ground clearance                   |  | mm 160   |                  |
| Dozer size (width × height)        |  | mm 990 / 1240 × 265                              |                  |
| Rubber shoe width                  |  | mm 230   |                  |
| Minimum front swivel radius        |  | mm 1440   1480                                   |                  |
| Boom swing angle (left / right)    |  | deg 65 / 58                                      |                  |
| Hydraulic System                   |  | Variable displacement pump                       |                  |
| P1, P2                             | Flow rate ℓ /min                               | 17.3 × 2   |                  |
|                                    | Hydraulic pressure MPa (kgf/cm <sup>2</sup> )  | 21.6 (220)                                       |                  |
| P3                                 | Flow rate ℓ /min                               | 10.4   |                  |
|                                    | Hydraulic pressure MPa (kgf/cm <sup>2</sup> )  | 18.6 (190)                                       |                  |
| Auxiliary (AUX)                    | Max. flow rate ℓ /min                          | 27.7   |                  |
|                                    | Max. hydr. pressure MPa (kgf/cm <sup>2</sup> ) | 18.6 (190)                                       |                  |
| Max. digging force                 | arm kN (kgf)                                   | 8.5 (865)  | 7.3 (744)        |
|                                    | bucket kN (kgf)                                | 15.2 (1550)                                      | 15.2 (1550)      |
| Hydraulic reservoir (tank / full)  |  | ℓ 13   21  |                  |
| Max. travelling speed (low / high) |  | km/h 2.2 / 4.1                                   |                  |
| Ground contact pressure            |  | kPa (kgf/cm <sup>2</sup> ) 27 (0.28)   28 (0.29) |                  |
| Swivelling speed                   |  | rpm 9.1  |                  |
| Fuel tank capacity                 |  | ℓ 19   |                  |
| Noise level                        | LpA dB (A)                                     | 80   |                  |
|                                    | LwA (2000/14/EC) dB (A)                        | 93   |                  |
| Vibration <sup>3</sup>             | Hand arm system (ISO 5349-2:2001)              | Digging m/s <sup>2</sup> RMS                     | <2.5             |
|                                    |  | Levelling m/s <sup>2</sup> RMS                   | <2.5             |
|                                    |  | Driving m/s <sup>2</sup> RMS                     | 2.72             |
|                                    | Whole body (ISO 2631-1:1997)                   | Digging m/s <sup>2</sup> RMS                     | <0.5             |
|                                    |  | Levelling m/s <sup>2</sup> RMS                   | <0.5             |
|                                    |  | Driving m/s <sup>2</sup> RMS                     | <0.5             |

<sup>1</sup> With 33.5 kg Kubota original bucket, full tanks, rubber shoe.

<sup>2</sup> Machine weight with 75 kg operator.

<sup>3</sup> These values are measured under specific conditions at maximum engine speed and can deviate, depending on the operating status.

# WORKING RANGE



# LIFTING CAPACITY

| Lift Point Height | Arm      | kN (ton)                 |            |            |                        |            |            |                        |            |            |
|-------------------|----------|--------------------------|------------|------------|------------------------|------------|------------|------------------------|------------|------------|
|                   |          | Lift point radius (1.5m) |            |            | Lift point radius (2m) |            |            | Max. lift point radius |            |            |
|                   |          | Blade Down               | Blade Up   | Over-side  | Blade Down             | Blade Up   | Over-side  | Blade Down             | Blade Up   | Over-side  |
| 2m                | 950 Arm  | -                        | -          | -          | 2.6 (0.27)             | 2.6 (0.27) | 2.6 (0.27) | -                      | -          | -          |
|                   | 1100 Arm | -                        | -          | -          | -                      | -          | -          | -                      | -          |            |
| 1.5m              | 950 Arm  | 4.4 (0.45)               | 4.4 (0.45) | 4.4 (0.45) | 3.8 (0.39)             | 3.4 (0.34) | 3.1 (0.32) | -                      | -          | -          |
|                   | 1100 Arm | -                        | -          | -          | 3.0 (0.31)             | 3.0 (0.31) | 3.0 (0.31) | -                      | -          | -          |
| 0.5m              | 950 Arm  | -                        | -          | -          | 5.8 (0.59)             | 3.0 (0.31) | 2.8 (0.29) | 2.7 (0.28)             | 1.5 (0.15) | 1.4 (0.14) |
|                   | 1100 Arm | -                        | -          | -          | 5.4 (0.55)             | 2.9 (0.30) | 2.7 (0.27) | 2.4 (0.25)             | 1.3 (0.14) | 1.2 (0.13) |
| 0m                | 950 Arm  | -                        | -          | -          | 5.5 (0.56)             | 3.0 (0.30) | 2.7 (0.28) | -                      | -          | -          |
|                   | 1100 Arm | 5.0 (0.51)               | 4.3 (0.44) | 3.9 (0.40) | 5.3 (0.54)             | 2.8 (0.28) | 2.6 (0.26) | -                      | -          | -          |
| -0.5m             | 950 Arm  | 6.8 (0.70)               | 4.6 (0.47) | 4.2 (0.43) | 4.9 (0.50)             | 2.9 (0.30) | 2.7 (0.28) | -                      | -          | -          |
|                   | 1100 Arm | 7.0 (0.71)               | 4.3 (0.44) | 3.9 (0.40) | 4.8 (0.49)             | 2.8 (0.28) | 2.5 (0.26) | -                      | -          | -          |
| -1.5m             | 950 Arm  | 4.5 (0.46)               | 4.5 (0.46) | 4.3 (0.44) | 3.1 (0.31)             | 3.0 (0.31) | 2.8 (0.28) | -                      | -          | -          |
|                   | 1100 Arm | 4.7 (0.48)               | 4.4 (0.45) | 4.0 (0.41) | 3.2 (0.33)             | 2.8 (0.29) | 2.6 (0.26) | -                      | -          | -          |

Please note:

\* Above figures shown are with rubber shoe and crawler fully extended.

\* The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

\* The excavator bucket, hook, sling and other lifting accessories are not included on this table.

★ All images shown are for brochure purposes only.

When operating the excavator, wear clothing and equipment in accordance to local legal and safety regulations.

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