## For Earth, For Life

KUBOTA ZERO-TAIL SWING MINI EXCAVATOR

# U35-30/3



## Kubota's U35-3 $\alpha$ 3 is the excavator of choice for smooth simultaneous operation, powerful digging force, and superb attachment versatility.



#### **KUBOTA ZERO-TAIL SWING MINI EXCAVATOR**

### $U35-3\alpha3$

#### Swivel negative brake

The swivel negative brake automatically locks the swivel function in its current position when the engine is stopped or the pilot control safety lever is raised. Hence, the swivel transport lock pin is no longer required.

Front attachment should be positioned on the ground



#### Zero-tail swing

Kubota's zero-tail swing is a pivotal advancement in mini excavators. Unmatched power, worry-free 360° swivel and excellent stability mean there are no limits to what you can accomplish, especially in tight spaces. In fact, this excavator's smooth control, improved efficiency and superior value make it ideally suited for jobs in congested urban areas. Plus, enhanced operator comfort and environmental friendliness not only complete the package, but also make this machine ideal for your needs.

#### ROPS/FOPS cabin (Level 1)

For maximum operator safety, the cabin provides a Roll-over Protection Structure (ROPS) and a Falling Object Protection Structure (FOPS).



Buckets may vary by location.

With a host of advanced features, Kubota excavators deliver the security and ease of operation users demand.

#### 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 new 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.

#### **C** 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.

#### 1 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 unprogrammed 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



The excavator moves



■ Un-programmed key



**)** 



vroom...

Insert key

The alarm sounds



Insert the Red programming key, then press the monitor button.



7 Insert new individual Black operational key.



#### **EASY OPERATION**

#### 1 Proportional flow auxiliary switch

A convenient thumb-operated switch enables easy operation of auxiliary equipment.

#### 3 Auto Idling system (AI)

Whenever high engine rpm isn't needed, this system automatically reduces the engine to idling rpm, and returns it to its original setting when work resumes. This helps to reduce noise and exhaust emissions, and saves on fuel, energy and running costs.

#### 2 2-speed switch

The advanced 2-speed travel switch allows user-friendly travel speed changes, improved operation, comfort and control.

#### 4 Constant oil flow switch

Any attachment that requires a constant oil flow, this ON/OFF press switch enables a simple operation.





## With Kubota, maintenance is fast and easy, so you can work more productively.

#### **Engine inspection**

Primary points, like the engine and air cleaner, can be inspected and maintained easily via the rear engine cover. The fuel filter and water separator are independently installed and both are located inside the steel-plated bonnet, which opens widely for quick inspection and routine maintenance. An engine inspection window is also located behind the seat for easier access to the engine's injection nozzles.



#### Kubota engine

Kubota's unique new E-TVCS (Three Vortex Combustion System) with 31.1 PS enables high-energy output, low vibration and low fuel consumption, while minimising exhaust emissions.

#### Two-piece hose design

The two-piece hose design on the dozer and boom cylinders reduces hose replacement time. What's more, this design virtually eliminates the need to enter the machine for maintenance.

#### Control valve inspection

A quick and easy inspection of the control valve is possible simply by opening the latch on the bonnet, located to the right of the cabin. When more detailed maintenance or repairs are required, the remaining panels on the swing frame can be easily removed using standard tools.

#### Front bush pins

To maximise durability, we've introduced bushings on all of the pivot points on the front attachment and connecting points on the swing bracket. Kubota even uses bushings on the swing bracket's fixed joints—between the pin and the boss—to prevent potential damage caused by shock and vibration over many years of use. This minimises attachment play and helps maintain operating precision for a long time.



#### Third line hydraulic direct return for AUX

The Third Line Hydraulic Return enables greater oil flow efficiency by reducing back pressure when working with hydraulically actuated attachments, such as a hydraulic hammer. It also prevents the hydraulic oil contamination.



#### Standard Equipment

#### Engine/Fuel System

- Double element air cleaner
- Electric fuel pump
- Auto idling system

#### Undercarriage

- 300 mm rubber track
- 1 x upper track roller
- 4 x outer flange-type track roller
- 2-speed travel switch on dozer lever

#### Hydraulic System

- Adjustable maximum oil flow on auxiliary circuit (SP1)
- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third line hydraulic direct return for ALIX
- Auxiliary switch on right control lever

#### Safety System

- Engine start safety system on the left console
- Travel lock system on the left console
- Swivel lock system
- Boom check valve
- Anti-theft system

#### Working Equipment

- 1350 mm arm
- Auxiliary hydraulic circuit piping to the arm end
- 2 working lights on cabin and 1 light on the boom

#### Cabin

- ROPS (Roll-over Protective Structure, ISO3471)
- FOPS (Falling Object Protective Structure) Level 1
- Weight-adjustable semisuspension seat
- Seatbelt
- Hydraulic pilot control levers with wrist rests
- Travel levers with foot pedals
- Cabin heater for defrosting & demisting
- Emergency exit hammer
- Front window power-assisted with 2 gas dampers
- 12 V power source for radio-stereo
- 2 speakers and radio aerial
- Location for radio
- Cup holder

#### Canopy

- ROPS (Roll-over Protective Structure, ISO3471)
- FOPS (Falling Object Protective Structure) Level 1
- Weight-adjustable semisuspension seat
- Seatbelt
- Hydraulic pilot control levers with wrist rests
- Travel levers with foot pedals

#### Optional Equipment

#### Working Equipment

• 1550 mm arm

#### Undercarriage

• 300 mm steel track (+ 95 kg)

#### Safety System

- Anti-fall valve unit (boom, arm, dozer)
- Overload warning buzzer

#### Others

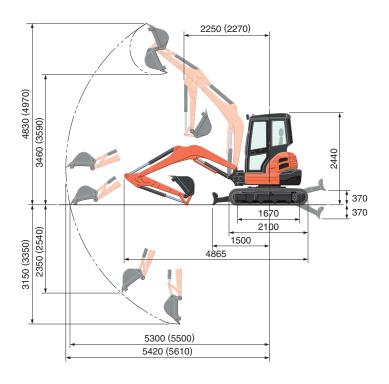
Special paint upon request

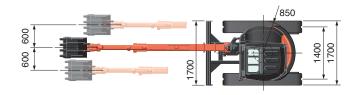
#### **SPECIFICATIONS**

\*Rubber shoe type

			*Rubber shoe type				
Model			U35-3α3				
Machine weight		Cabin k		3590			
		Canopy kg		3480			
Bucket c	apacity, s	td. SAE/CECE	0.11/0.10				
Bucket width		With side teet	h mm	575			
		Without side t	eeth mm	550			
Engine	Model		D1803-M-E3-BH-EU1				
	Туре		Water-cooled, diesel engine E-TVCS				
	Output ISO9249		PS/rpm	31.1/2300			
	Output	309249	kW/rpm	22.9/2300			
	Number	of cylinders	3				
	Bore × S	troke	mm	87 × 102.4			
	Displace	ement	СС	1826			
Overall I	ength		4865				
Overall height		Cabin mm		2440			
		Canopy mm		2440			
Swivellin	ig speed		rpm	9			
Rubber	shoe widt	h	300				
Tumbler	distance		1670				
Dozer si	ze (width	× height)	1700 × 335				
		P1		Variable displacement pump			
Hydrauli	c pump	Flow rate	ℓ/min	96.6			
		Hydraulic pressure	MPa (kgf/cm²)	24.5 (250)			
May digg	aina force	Arm	kN (kgf)	15.9 (1630)			
Max. digging force		Bucket kN (kgf)		31.1 (3180)			
Boom sv	ving angle	e (left/right)	deg	70/50			
Auvilian	, circuit	Flow rate	ℓ/min	55			
Auxiliary circuit		Hydraulic pressure	MPa (kgf/cm²)	20.6 (210)			
Hydrauli	c reservo	ir	$\ell$	36			
Fuel tan	k capacity	,	41.5				
Max. tra	velling	Low km/h		3.0			
speed		High km/h		4.6			
Ground contact pressure		Cabin I	«Pa (kgf/cm²)	33.0 (0.34)			
		Canopy I	«Pa (kgf/cm²)	32.0 (0.33)			
Ground	clearance		mm	290			

#### **WORKING RANGE**





( ): Long Arm Unit: mm

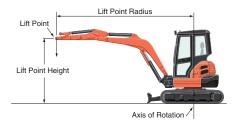
#### LIFTING CAPACITY

\*With cabin, rubber shoe and standard arm  $$\operatorname{kN}$$  (ton)

	Lift point radius (Min)			Lift point radius (3m)			Max. lift point radius		
Lift Point Height	Over-front		Overside	Over-front		Over side	Over-front		Overside
	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side
2m	-	-	-	7.1 (0.73)	7.0 (0.72)	6.6 (0.67)	-	-	-
1 m	-	-	-	9.8 (1.00)	6.5 (0.67)	6.1 (0.62)	6.0 (0.61)	3.5 (0.35)	3.3 (0.33)
0m	-	-	-	11.3 (1.15)	6.2 (0.63)	5.8 (0.59)	-	-	-
-1 m	16.2 (1.66)	16.2 (1.66)	16.2 (1.66)	10.9 (1.11)	6.1 (0.63)	5.7 (0.58)	-	-	-
-2m	19.5 (1.99)	19.5 (1.99)	18.9 (1.93)	7.9 (0.80)	6.3 (0.64)	5.8 (0.60)	-	-	-

#### Please note:

- \* 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.



- \* Working ranges are with Kubota standard bucket, without quick coupler.
- \* Specifications are subject to change without notice for purpose of improvement.

#### **KUBOTA EUROPE S.A.S.**

19 à 25, Rue Jules Vercruysse Zone Industrielle - B.P. 50088 95101 Argenteuil Cedex France Téléphone : (33) 01 34 26 34 34 Télécopieur : (33) 01 34 26 34 99 http://www.kubota-global.net

<sup>★</sup> All images shown are for brochure purposes only.

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