

KUBOTA ZERO-TAIL SWING MINI EXCAVATOR

U35-30/3



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



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$U35-3\alpha3$



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.

G 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 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



Insert key

The excavator moves

vroom...

■ Un-programmed key



Insert kev



The alarm sounds



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





EASY OPERATION

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

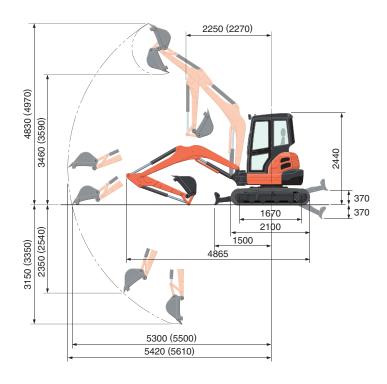
Special paint upon request

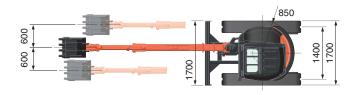
SPECIFICATIONS

*Rubber	chna	tyne
Rubbei	SHOE	tvbe

				*Rubber shoe type		
Model			U35-3α3			
Machine weight		Cabin kg		3590		
		Canopy kg		3480		
Bucket o	apacity, s	td. SAE/CECE	m³	0.11/0.10		
Bucket width		With side teeth mm		575		
		Without side teeth mm		550		
	Model			D1803-M-E3-BH-EU1		
Engine	Туре			Water-cooled, diesel engine E-TVCS		
	Output ISO9249		PS/rpm	31.1/2300		
			kW/rpm	22.9/2300		
	Number	of cylinders		3		
	Bore × S	troke	mm	87 × 102.4		
	Displace	ment	СС	1826		
Overall	length		mm	4865		
Overall height		Cabin mm		2440		
Overall	neignt	Canopy mm		2440		
Swivelling speed rpm				9		
Rubber shoe width mm			300			
Tumbler distance mm			1670			
Dozer si	ze (width	× height)	mm	1700 × 335		
-		P1		Variable displacement pump		
Hydraul	ic pump	Flow rate ℓ /min		96.6		
		Hydraulic pressur	e MPa (kgf/cm²)	24.5 (250)		
May dia	aina forco	Arm kN (kgf)		15.9 (1630)		
Max. digging force		Bucket kN (kgf)		31.1 (3180)		
Boom swing angle (left/right) deg		70/50				
Auxiliary circuit		Flow rate ℓ/\min		55		
		Hydraulic pressure MPa (kgf/cm²)		20.6 (210)		
Hydraulic reservoir ℓ		ℓ	36			
Fuel tank capacity ℓ			41.5			
Max. travelling speed		Low km/h		3.0		
		High km/h		4.6		
Ground contact pressure		Cabin I	kPa (kgf/cm²)	33.0 (0.34)		
		Canopy kPa (kgf/cm²)		32.0 (0.33)		
Ground clearance mm			mm	290		

WORKING RANGE





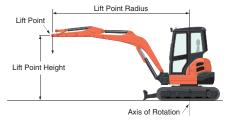
(): Long Arm Unit: mm

LIFTING CAPACITY

*With cabin, rubber shoe and standard arm kN (ton)

	Lift point radius (Min)		Lift point radius (3m)		Max. lift point radius				
Lift Point Height	Over-front		Overside	Over-front		Overside	Over-front		0
	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:



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

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^{*} 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.