

KUBOTA ZERO-TAIL SWING MINI EXCAVATOR

U35-30/2



For smooth simultaneous operation, powerful digging force, and superb attachment versatility, the U35-3 α 2 is the excavator of choice.



performance lifting, loading, digging, and dozing are assured without a loss of speed or power.

vary according to the load of front attachments.

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U35-3α2



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.

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

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 revs it back to its original setting when work resumes. This helps to reduce noise and exhaust emissions, and saves on fuel, energy and running costs.

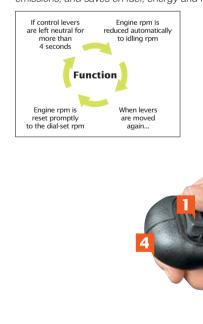
2 2-speed switch

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

4 Convenient breaker switch

A simple forefinger operation is all that's needed to activate the hydraulic breaker.





With the U35-3 α 2, 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 strong and durable 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.

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.



Kubota engine

Kubota's unique new E-TVCS (Three Vortex Combustion System) 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 by 60% compared to nonjoint types. 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.

Third line hydraulic return

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.



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
- Bracket for anti-theft locking device

Hydraulic System

- Adjustable maximum oil flow on auxiliary circuit (SP1)
- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third line hydraulic return
- 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

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

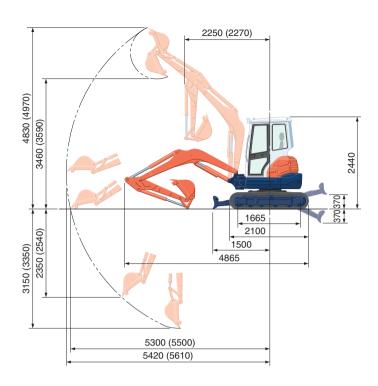
Others

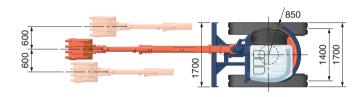
Special paint upon request

SPECIFICATIONS

				*Rubber shoe type		
Machine weight		Cabin	kg	3590		
		Canopy	kg	3480		
Bucket cap	acity,	std. SAE/CECE	m³	0.11/0.10		
Bucket	With	side teeth	mm	575		
width	With	out side teeth	mm	550		
	Mode	el		D1503-M-EBH-4-EC-N		
Fusins	Туре			Water-cooled, diesel engine E-TVCS (Economical, ecological type)		
	0	. 1500240	PS/rpm	27.5/2300		
Engine	Output ISO9249		kW/rpm	20.3/2300		
	Num	ber of cylinders		3		
	Bore	× Stroke	mm	83 × 92.4		
	Disp	acement	СС	1499		
Overall len	gth		mm	4865		
0	-1-4	Cabin	mm	2440		
Overall hei	gnt	Canopy	mm	2440		
Swivelling	speed	I	rpm	8.9		
Rubber sho	oe wid	lth	mm	300		
Tumbler di	stanc	e	mm	1665		
Dozer size	(widt	$h \times height)$	mm	1700 × 335		
Hydraulic		P1, P2		Variable displacement pump		
		Flow rate	ℓ/min	40 + 40		
		Hydraulic pressure	MPa (kgf/cm²)	24.5 (250)		
pumps		Р3		Gear type		
		Flow rate	ℓ/min	21		
		Hydraulic pressure	MPa (kgf/cm²)	19.6 (200)		
	,	Arm	kN (kgf)	18.3 (1870)		
Max. digging	Torce	Bucket	kN (kgf)	31.1 (3180)		
Boom swin	ıg ang	le (left/right)	deg	70/50		
Auxiliary circuit		Flow rate	ℓ/min	40		
		Hydraulic pressure	MPa (kgf/cm²)	24.5 (250)		
Hydraulic 1	reserv	oir	ℓ	36		
Fuel tank o	apaci	ty	ℓ	41.5		
Max. travelling speed		Low	km/h	3.0		
		High	km/h	4.6		
Ground contact pressure		Cabin	kPa (kgf/cm²)	33.0 (0.34)		
		Canopy	kPa (kgf/cm²)	32.0 (0.33)		
Ground cle	aranc	e	mm	290		

WORKING RANGE



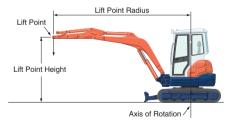


(): Long Arm Unit: mm

LIFTING CAPACITY

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

									(,
Lift Point Height	Lifting point radius (1.5m)			Lifting point radius (3m)			Lifting point radius (4.5m)		
	Over-front		0	Over-front		0	Over-front		0
	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side
3m	-	-	-	-	-	-	-	-	-
2m	-	-	-	9.0 (0.92)	8.9 (0.91)	8.3 (0.85)	7.4 (0.76)	4.7 (0.48)	4.4 (0.45)
1 m	-	-	-	12.4 (1.27)	8.3 (0.84)	7.7 (0.79)	7.9 (0.81)	4.6 (0.47)	4.3 (0.44)
0m	-	-	-	14.3 (1.46)	7.9 (0.80)	7.3 (0.75)	8.2 (0.84)	4.5 (0.46)	4.2 (0.43)
-1 m	20.6 (2.10)	20.6 (2.10)	20.6 (2.10)	13.8 (1.40)	7.8 (0.79)	7.2 (0.74)	-	-	-
-2m	24.7 (2.52)	24.7 (2.52)	23.9 (2.44)	10.0 (1.02)	7.9 (0.81)	7.4 (0.75)	-	-	-



^{*} Working ranges are with Kubota standard bucket, without quick coupler.

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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.

^{*} Specifications are subject to change without notice for purpose of improvement.