

KUBOTA MINI EXCAVATOR





With smooth simultaneous operation, powerful digging force, and outstanding attachment versatility, these excavators bring high performance to a whole new level.

Strong digging force

A well-balanced arm and bucket guarantee superior digging force whenever you need it. Kubota's unique, powerful hydraulic system, combined with large-capacity variable displacement pumps, delivers precise control of arm and bucket movements. This maximum operating pressure generates faster job speed, even in tough digging situations.

Four simultaneous operations

Variable displacement hydraulic pumps, which specifications are set to utilise the engine power at the optimum level, ensure high performance digging and dozing at all times. The combination of a two-element variable pump and a gear pump enable bucket, boom, arm and swing simultaneous operation. The efficiency can be seen in operations like dumping onto lorries and levelling ground.

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.

KUBOTA MINI EXCAVATOR

KX91- $3\alpha_2$ /**KX101-** $3\alpha_2$

Adjustable maximum oil flow on auxiliary circuit

The maximum oil flow rate of the auxiliary circuit can be changed/adjusted by simply pushing a switch—there's no need for additional tools. This simplifies the utilisation of front attachments like tilt buckets, brush cutters and

hydraulic hammers—you can reduce or increase the flow to get just the right amount of control.

*The maximum oil flow can vary according to the load of front attachments.



ROPS/FOPS (level 1) cabin and canopy

The cabin and canopy offer maximum safety to the operator with their Roll-over Protection Structure (ROPS) and Falling Object Protection Structure (FOPS).

Reliable machine stability

Kubota's excavators are designed and engineered to deliver a level of machine stability that's second to none. The outstanding balance of the KX91-3 α 2 and KX101-3 α 2 allows them to carry heavy loads easily and smoothly.

More driving force

A stronger driving force of the travel motor and improved turnability enable smooth dozer backfilling and levelling operation.

Kubota delivers security and operating ease, thanks to a host of advanced features.

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

AND DESCRIPTION OF

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

Un-programmed key

Beep!





Insert key

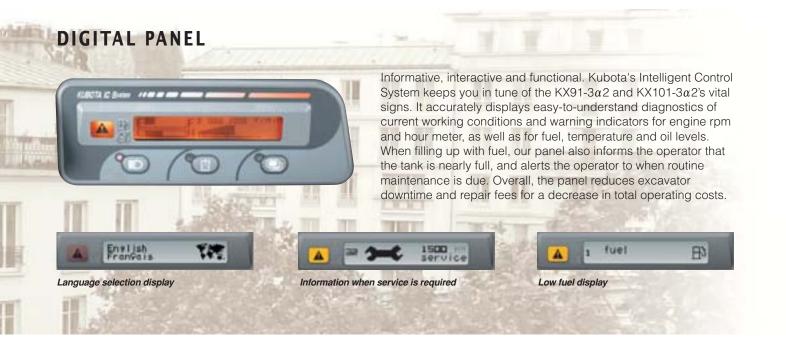
The alarm sounds



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)

If control levers are left neutral for

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.

Engine rpm is reduced automatically

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 Kubota excavators, maintenance is simple and quick, so you can work more efficiently.

Kubota engine

exhaust emissions.

Kubota's unique new E-TVCS (Three

Vortex Combustion System) enables

high-energy output, low vibration and low fuel consumption, while minimising

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.



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.



Swivel negative brake

With swivel negative brake, the swivel function is locked automatically whenever the engine is stopped or the pilot control safety lever is raised. This feature eliminates the need for a swivel transport lock pin.

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.

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.



Standard Equipment

Engine/Fuel system

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

Cabin

- ROPS (Roll-over Protective Structure, ISO3471)
- FOPS (Falling Object Protective Structure) Level 1
- Weight-adjustable full suspension 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
- Location for 2 speakers and radio aerial

Cup holder

Undercarriage

- 300 mm rubber track
- 1 x upper track roller
- 4 x (KX101-3α2) / 3 x (KX91-3α2) outer flange-type lower track roller

• 2 speed travel switch on dozer lever

• Bracket for anti-theft locking device

Canopy

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

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

- Anti-theft systemEngine start safety system on the left console
- Travel lock system on the left console
- Swivel lock system
- Boom anti-fall circuit in the control valve

Working equipment

- 1350 mm arm (KX101-3α2) / 1275 mm arm (KX91-3α2)
- Auxiliary hydraulic circuit piping to the arm end
- 2 working lights on cabin and 1 light on the boom

Optional Equipment

Working equipment

- 1550 mm arm
- Telescopic arm

Undercarriage

• 300 mm steel track (+ 95 kg)

Cabin

Radio/stereo installation kit

Safety system

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

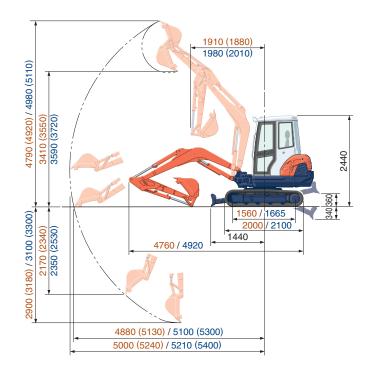
Others

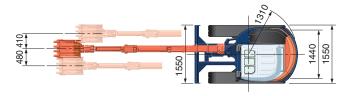
• Special paint upon request

Model			KX91-3α2	KX101-3α2			
Model		Cabin	kg	3240	3520		
Machine	e weigh	t Capony	5	3130	3410		
Dualist same site .		Canopy	kg m ³				
Bucket capacity, std. SAE/CECE				0,089/0,078	0,107/0,093		
Bucket width		With side teeth		495	575		
		Without side te	eth mm	470	550		
	Model			D1503-M- D1503-I EBH-3-EC-N EBH-4-EC			
	Туре		Water-cooled, diesel engine E-TVCS (Economical, ecological type)				
Engine			PS/rpm	26,6/2200	27,5/2300		
•	Outpu	it ISO9249	kW/rpm	19,6/2200	20,3/2300		
	Numb	er of cylinders		3	3		
	Bore >	Stroke	mm	83 ×	92,4		
	Displa	icement	CC	1499			
Overall	lenath		mm	4760	4920		
		Cabin	mm	2440			
Overall height –		Canopy	mm	2440			
Swivelli	na spee	.,	rpm	9,0	8,9		
Rubber	• ·		mm	300			
Tumble			mm	1560	1665		
Dozer s	ize (wio	lth × height)	mm	1550 × 335			
SSECT SIZE (WIGHT		P1, P2		Variable displa	Variable displacement pump		
		Flow rate	ℓ/min	40 + 40			
		Hydraulic pressu	re MPa (kgf/cm²)	23,5 (240,0)	24,5 (250,0)		
Hydraul	ic pum	ps P3		Gear Type			
		Flow rate	ℓ/min	21			
			ire MPa (kgf/cm²)	19,6 (200,0)			
Max. digging force		Arm	daN (kgf)	1830 (1867)	1830 (1870)		
		ce Bucket	daN (kgf)	2990 (3050)	3110 (3180)		
Boom swing angle (left/right)			deg		/50		
Auxiliary circuit		Flow rate	ℓ/min	40			
		t	ure MPa (kgf/cm²)	23,5 (240,0)	24,5 (250,0)		
, ,			l l	36			
Hydraulic reservoir			l	-	-		
Fuel tank capacity			48				
Max. tra speed	velling		Low km/h		3,0		
· .		High	km/h	4,6			
Ground			kPa (kgf/cm ²)				
Callopy			kPa (kgf/cm²)	31,2 (0,32)	31,4 (0,32)		
Ground clearance			mm	295	290		

SPECIFICATIONS

WORKING RANGE





(): Long Arm KX91-3α2 / KX101-3α2 KX91-3α2 KX101-3α2 Unit: mm

LIFTING CAPACITY KX91-30

KA91-302									uari (ton)
	Lifting point radius (1m)			Lifting point radius (3m)			Lifting point radius (4m)		
Lift Point Height	Over-front		Over side	Over-front		0	Over-front		Over-side
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side
3m	-	-	-	620 (0,63)	620 (0,63)	620 (0,63)	-	-	-
2m	-	-	-	750 (0,77)	750 (0,77)	750 (0,77)	670 (0,68)	590 (0,60)	540 (0,55)
lm	-	-	-	970 (0,99)	860 (0,88)	780 (0,80)	720 (0,74)	570 (0,58)	520 (0,53)
0m	-	-	-	1090 (1,12)	830 (0,85)	750 (0,76)	750 (0,77)	560 (0,57)	510 (0,52)
-1 m	2170 (2,21)	2170 (2,21)	2170 (2,21)	1030 (1,05)	820 (0,84)	740 (0,76)	-	-	
-2m	-	-	-	890 (0,90)	830 (0,85)	750 (0,76)	-	-	

KX101-3α2

KX101-3α2									daN (ton)
Lift Point Height	Lifting point radius (1m)			Lifting point radius (3m)			Lifting point radius (4m)		
	Over-front		Over-side	Over-front		Over-side	Over-front		Over-side
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side
3m		-	-	680 (0,69)	680 (0,69)	680 (0,69)	-	-	
2m	-	-	-	860 (0,88)	860 (0,88)	860 (0,88)	750 (0,76)	740 (0,75)	620 (0,64)
lm		-	-	1130 (1,15)	1080 (1,10)	900 (0,91)	840 (0,85)	720 (0,73)	600 (0,62)
0m	-	-	-	1290 (1,32)	1040 (1,06)	860 (0,88)	900 (0,91)	700 (0,71)	590 (0,60)
-1 m	1930 (1,97)	1930 (1,97)	1930 (1,97)	1260 (1,28)	1030 (1,05)	850 (0,87)	-	-	
-2m	2560 (2,61)	2560 (2,61)	2560 (2,61)	1140 (1,16)	1030 (1,06)	850 (0,87)	-	-	

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 KUBOTA EUROPE S.A.S.

are not included on this table.

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

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Lift Dair	t Radius
Lift Point	
Lange C. de	
+	
Lift Point Height	
Ļ	
	Axis of Rotation

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