

KUBOTA MINI EXCAVATOR

KX101-30/3



With smooth simultaneous operation, powerful digging force, and outstanding attachment versatility, this excavator brings high performance to a whole new level.



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KX101-3 α 3



The cabin and canopy offer maximum

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

More driving force

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

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 KX101-3 α 3 allows it to carry heavy loads easily and smoothly.

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.



(1) 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.







Insert key

The excavator moves

■ Un-programmed key









Insert key

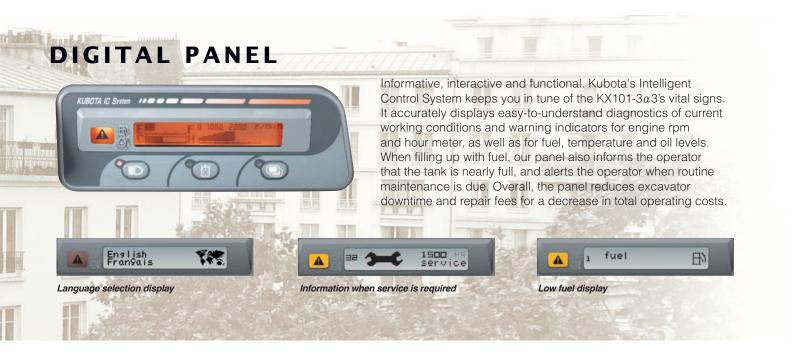
The alarm sounds



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



7 Insert new individual Black operational key.



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 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 Constant oil flow switch

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





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



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.



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 outer flange-type lower track roller
- 2 speed travel switch on dozer lever

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 direct return for
- Auxiliary switch on right control lever

Safety system

- Anti-theft system
- Engine 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
- 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

Undercarriage

• 300 mm steel track (+ 95 kg)

Cahin

• Radio/stereo installation kit

Safety system

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

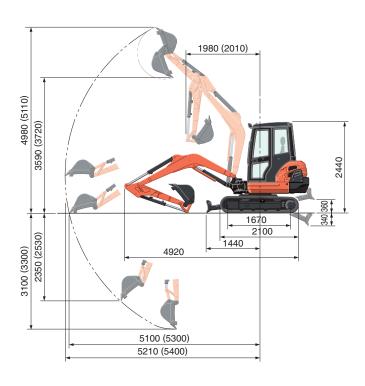
Others

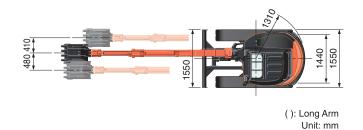
Special paint upon request

SPECIFICATIONS

SPE	СІГ	1	CATIO	142	*With rubber shoe type			
Model					KX101-3α3			
			Cabin	kg	3520			
Machine weight			Canopy	kg	3410			
Bucket o	capacity	/, st	d. SAE/CECE	m³	0.107/0.093			
Bucket width		Wit	h side teeth	mm	575			
		Wit	hout side tee	th mm	550			
	Mode	i			D1803-M-E3-BH-EU1			
Engine	Туре				Water-cooled, diesel engine E-TVCS			
			00040	PS/rpm	31.1/2300			
	Output ISO9249			kW/rpm	22.9/2300			
	Numb	er c	of cylinders		3			
	Bore >	< Str	oke	mm	87 × 102.4			
	Displa	icen	nent	СС	1826			
Overall	length			mm	4920			
Overall height		Cal	bin	mm	2440			
		Ca	пору	mm	2440			
Swivelling speed				rpm	8.9			
Rubber shoe width				mm	300			
Tumbler distance				mm	1670			
Dozer s	ize (wio	dth :	x height)	mm	1550 x 335			
Hydraulic pump			P1		Variable displacement pump			
		р	Flow rate	ℓ/min	96.6			
			Hydraulic pressur	e MPa (kgf/cm²)	24.5 (250.0)			
May din	aina for	-CA	Arm	kN (kgf)	c 1826 m 4920 m 2440 m 2440 m 8.9 m 300 m 1670 m 1550 x 335 Variable displacement pum n 96.6 24.5 (250.0) n 15.9 (1630) n 31.1 (3180) g 80/50 n 55			
wax. uig	Max. digging force Buc			kN (kgf)	31.1 (3180)			
Boom sv	Boom swing angle (left/right)				80/50			
Auviliar	v circui	. L	Flow rate	ℓ/min	55			
Auxiliary circuit			Hydraulic pressure MPa (kgf/cm²)		20.6 (210)			
Hydraul	ic rese	voi	r	ℓ	36			
Fuel tan	k capa	city		ℓ	48			
Max. travelling			Low	km/h	3.0			
speed	peed		High km/h		4.6			
Ground		t	Cabin	kPa (kgf/cm²)	32.3 (0.33)			
pressur	ssure		Canopy	kPa (kgf/cm²)	31.4 (0.32)			

WORKING RANGE





LIFTING CAPACITY

Ground clearance

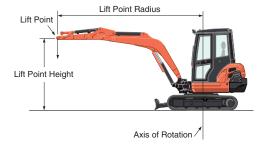
*With cabin, rubber shoe and standard arm kN (ton)

	Lifting	point radiu	s (min.)	Lifting point radius (3m)			Lifting point radius (max.)				
Lift Point Height	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	-	-	-	5.7 (0.58)	5.7 (0.58)	5.7 (0.58)	-	-	-		
2m	-	-	-	7.2 (0.74)	7.2 (0.74)	7.2 (0.74)	-	-	-		
1 m	-	-	-	9.5 (0.97)	9.1 (0.93)	7.5 (0.77)	6.2 (0.63)	5.4 (0.55)	4.5 (0.46)		
0m	-	-	-	10.9 (1.11)	8.8 (0.89)	7.2 (0.74)	-	-	-		
-1 m	16.2 (1.65)	16.2 (1.65)	16.2 (1.65)	10.6 (1.08)	8.7 (0.88)	7.1 (0.73)	-	-	-		
-2m	-	-	-	7.3 (0.74)	7.3 (0.74)	7.3 (0.74)	-	-	-		

290

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.

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