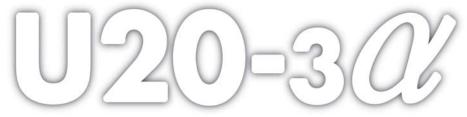
## For Earth, For Life

KUBOTA ZERO-TAIL SWING MINI-EXCAVATOR





### Intelligent design, sophisticated performance, and new levels of security, and comfort. This mini-excavator is ready for today's tough jobs.

This is mini for modern jobs. Those tough jobs in tight corners that demand precision control, state-of-the-art performance, and maximum safety and security. And this mini is ready to work, offering a wealth of advanced features, including a sophisticated digital panel information system, and the industry's first anti-theft system to be offered as standard equipment. Add high reliability, low operating costs, and superior efficiency, and you've got the ideal mini for a wide range of modern jobs.

# U20-3*X*



### ANTI-THEFT SYSTEM

The Ultimate in security that's as easy as turning a key. It's the industry's first standardequipment anti-theft system, and another original only from Kubota.

### 🕪 THE IMMOBILIZING SYSTEM

The industry's first standard-equipment anti-theft system makes security as easy as turning a key – the correct key – because the engine only starts when you insert the correct IC-equipped operation key.

### **B** SECURITY

Only an appropriately programmed operation key will start the engine. Inserting other keys and turning them more than six times activates an alarm, which will stop only when the correct key is inserted and the ignition switched to RUN.

### EASY PROGRAMMING

One programming key (red) and two operation keys (black) are provided. To program additional operation keys, simply insert the red key and follow the instructions on the digital panel. A maximum of four black keys can be programmed per mini-excavator.

### C EASY OPERATION

No special procedures, no PIN numbers to remember. Simply insert the key to start the engine or gain access to the cabin door, engine bonnet, or fuel tank.



Programmed kev



#### Un-programmed key





### DIGITAL PANEL

Following the excellence of Kubota's Control System, the digital panel puts convenience at the operator's fingertips. The user-friendly digital panel is positioned to the right side of the operator and features one-touch button operation to view the time, hour meter and tachometer. Warning lamps with code numbers on the display will alert you in case of emergencies such as overheating, hydraulic problems or low battery. Programming of the anti-theft keys can also be easily performed with the digital panel.

With easier access, simpler settings, easy-to-read indicators and alerts, you'll always be aware of the excavator's functioning status.

1. Fuel Level Gauge 2. Water Temperature Gauge  Warning Lamps (Overheating, Hydraulic, Battery)
LCD Display (Time, Hour, rpm)

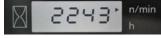
<u>: S.8</u>

n/min



Time

Hour meter



Tachometer



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### ZERO-TAIL SWING

With zero-tail swing, even the tightest spaces become efficient work places. The tail always stays within the width of the tracks, letting you turn the cab throughout its 360-degree turning radius with complete confidence and safety and fewer accidents with things behind you. Zero-tail swing also means excellent balance and stability and faster operation, making the U20-3 $\mathcal{Q}$  ideal for work in congested urban areas and inside buildings.

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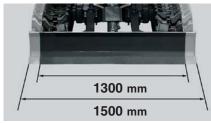
**U20**-3*Q* 

#### Undercarriage

The U20-3a's hydraulic track gauge adjusts to between 1300 mm and 1500 mm. A single lever lets you reduce the track gauge to navigate narrow spaces or increase it to improve stability while operating with hydraulic breakers, etc.



Instantly and simply adjust the blade size by removing the pin and folding or unfolding the blade.



Increase the track gauge for greater stability, or reduce it to navigate narrow spaces.

### Dependable Performance from a Wealth of Advanced Features. And Safety You Can Rely On.

#### 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.



### Simultaneous operation of four functions

When the simultaneous operation of the boom, arm, bucket, and swivel are required, two variable pumps will distribute an accurate amount of oil flow to each actuator according to the lever stroke pressure. This process is achieved without the loss of speed or power, and enables continuous high performance digging and dozing.

### Powerful digging force

Even with the optional long arm, the U20-3 $\alpha$  is exceptionally stable and well balanced, giving it a powerful digging force that makes short work of even the toughest digging jobs.

Long arm The optional long arm gives this mini-excavator a longer reach, letting you get more work done at each location.

Kubata



#### Travelling System

Rough terrain is not a problem for this rugged traveler, thanks to a powerful traveling force. The traveling system includes traveling lock levers that activate whenever the pilot control safety lever is not engaged, preventing the machine from moving unexpectedly.

#### Swivel negative brake

Kubota's swivel negative brake eliminates the need for a swivel transport locking pin. It automatically locks the cabin in its current position whenever the engine is stopped or the pilot control safety level is raised.



#### ROPS/FOPS Cabin/canopy (Level 1)

Maximum operator safety is ensured by the integrated Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS). Both cabin and canopy versions are available. The cabin version features a stylish layout that provides a high level of operator comfort.



#### Ergonomic design

Smooth operation is the key to reducing operator fatigue. That's why the U20-3 $\alpha$  features ergonomically designed levers, wrist rests, and high-back seat that enhance operator comfort as well as ensure smooth, precise control.



#### Straight travel

For safer loading/off-loading, the Hydraulic Matching System ensures straight travel even during simultaneous operation. 2-Speed Travel Switch on Dozer Lever Conveniently located on the dozer lever for more efficient dozer operation, the newly designed travel switch lets you quickly and easily change travel speeds. The new location also provides more legroom for greater operator comfort.



### Intelligent Design for Easy Maintenance, Rugged Construction for Durable Performance.

Easy engine inspection

Major components, such as the engine and air cleaner, are easily accessible for inspection and maintenance through the engine cover. An engine inspection cover behind the seat offers fast access to the engine's injection nozzles. A side cover on the right side of the cab provides quick and simple access to the battery, fuel tank and hydraulic tank. Protected bucket cylinder hoses Cylinder hoses are routed within the arm for greater safety. This design vastly improves operator visibility, increases service life, and lowers repair costs.





Boom cylinder protector The thick, steel-plated, V-shaped, boom-cylinder protector safeguards against accidental damage from attachments or other objects.



Control valve inspection

Located beneath the cabin floor, the control valve can be accessed by simply removing the steps by hand. When an involved repair is required, the steps and cover below the seat can all be removed by using standard tools.



### Two-piece hose design

The innovative, two-piece, hydraulic hose design for the dozer reduces hose replacement time by 60% when compared to a one-piece hose design. What's more, this design virtually eliminates heavy labour from the actual hose replacement process.

121-30

### Standard Equipment

### Engine/Fuel System

- Double-element air cleaner
- Electric fuel pump

### Undercarriage

- 250mm rubber track
- 1 x upper-track roller
- 3 x double-flange track roller
- 2-speed travel switch on dozer lever

### Hydraulic System

- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third-line hydraulic return

### 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

- 1190mm arm
- Auxiliary hydraulic circuit piping to the arm's end
- 2 working lights on the cabin and 1 light on the boom

### Cabin

- ROPS (Roll-Over Protective Structure, ISO 3471)
- FOPS (Falling Objects Protective Structure) Level 1
- Weight adjustable semisuspension seat
- Seatbelt
- Hydraulic pilot control levers with wrist rests
- Cabin heater for defrosting & demisting
- Emergency exit hammer
- Location for 2 speakers and radio antenna

### Canopy

• ROPS (Roll-Over Protective Structure, ISO 3471)

- FOPS (Falling Objects Protective Structure) Level 1
- Weight-adjustable, semisuspension seat
- Seatbelt
- Hydraulic pilot control levers with wrist rests

### **Optional Equipment**

### Undercarriage

• 250mm steel track (+ 60kg)





### SPECIFICATIONS

					*Rubber shoe ty		
Model				U20-3a			
Туре					Variable track type		
Machine	woigh	+	Cabin kg		2380		
Machine weight		ι -	Canopy kg		2180		
Bucket capacity, st			td. SAE/CECE m <sup>3</sup>		0.066/0.056		
Bucket width		wit	h side teeth	mm	450		
BUCKEL	wium	without side teeth		mm	400		
	Mode				D1105-E2-BH-12		
	Туре	уре			Water-cooled,diesel engine E-TVCS(Economical,ecological type		
	0.1		20240	PS/rpm	19/2200		
Engine	Outpu	IT 150	09249	kW/rpm	14/2200		
	Numb	Number of cylinders			3		
	Bore >	< Str	oke	mm	72 × 78.4		
	Displa	acem	ient	сс	1123		
Overall	length			mm	3850		
Overall height			Cabin	mm	2360		
Overall	neight		Canopy	mm	2380		
Swivelling speed				rpm	9.6		
Rubber	shoe w	idth		mm	250		
Tumble	r distar	ice		mm	1470		
Dozer s	ize (wio	dth ×	height)	mm	1300/1500×290		
	P1,	P2			Variable displacement pump		
	Flo	w ra	te	ℓ/min	23 + 23		
Hydraul	ic Hyd	drau	lic pressure MP	a(kgf/cm²)	21.6 (220.0)		
pumps	P3				Gear type		
	Flo	w ra	te	ℓ/min	12.8		
	Hyd	drau	lic pressure MP	a(kgf/cm <sup>2</sup> )	20.6 (210.0)		
		Arm		kN (kgf)	13.2 (1350)		
Max.dig	ging fo	rce	Bucket	kN (kgf)	18.4 (1880)		
Boom sv	wing ar	ngle	(left/right)	deg	75/55		
Auxiliar					35.8		
circuit	y			a(kgf/cm <sup>2</sup> )	21.6 (210.0)		
Hydraulic reservoir				l (((g), c)))	22		
Fuel tank capacity					28		
			Low km/h		2.2		
Max. tra speed	veiling	ŀ	High km/h		4.2		
			Cabin kPa(kgf/cm <sup>2</sup> )		27.2 (0.28)		
Ground contact pressure		t -	Canopy kPa(kgf/cm <sup>2</sup> )		25.7 (0.26)		
Ground clearance			сапору кг	a(kgi/ciii ) mm	160		
Ground	cicaidi	ice			100		

#### LIFTING CAPACITY With standard track type : 940 mm

Standard	arm					kN (ton)
Lift Point Height		g point radius	(2m)	Lifting point radius (Max)		
	Over-	front	Over-side	Over-front		Over-side
	Blade Down	Blade UP		Blade Down	Blade UP	Over-side
1.5m	6.9 (0.71)	6.4 (0.65)	5.4 (0.55)	-	-	-
1.0m	9.1 (0.93)	6.1 (0.62)	5.1 (0.52)	4.4 (0.44)	2.6 (0.26)	2.2 (0.23)
0m	-	5.8 (0.59)	4.9 (0.50)	-	-	-
-1.0m	7.4 (0.76)	5.9 (0.60)	4.9 (0.50)	-	-	-

#### With variable track type : 1190 mm

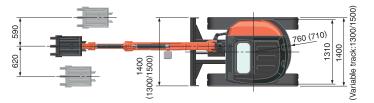
Long arm	I					kN (ton)		
Lift Point Height		point radius	(2.5m)	Lifting point radius (Max)				
	Over	front	Over-side	Over-front		Over-side		
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-Slue		
1.5m	4.7 (0.48)	4.7 (0.48)	4.6 (0.47)	-	-	-		
1.0m	5.8 (0.59)	4.6 (0.47)	4.5 (0.45)	3.9 (0.40)	2.5 (0.25)	2.4 (0.25)		
0m	7.0 (0.72)	4.3 (0.44)	4.2 (0.43)	-	-	-		
-1.0m	6.1 (0.62)	4.3 (0.44)	4.2 (0.43)	-	-	-		
0m	7.0 (0.72)	4.3 (0.44)	4.2 (0.43)	-	-	-		

Please note:

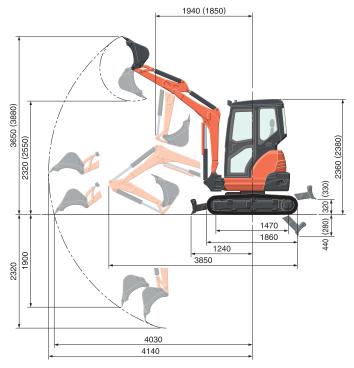
\* The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

\* The excavator bucket, hook, sling and other lifting accessories are not included on this table.

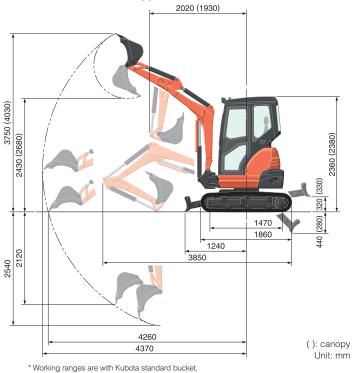
### **WORKING RANGE**



With standard track type : 940 mm



#### With standard track type : 1190 mm



 \* 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-eu.com