Engine output: **18.4 PS / 13.5 kW**

Machine weight (Cabin/Canopy): 2,305 / 2,105 kg

For Earth, For Life

KUBOTA ZERO-TAIL SWING MINI-EXCAVATOR





Intelligent design, sophisticated performance, and new levels of security, and comfort. This miniexcavators 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.

U20-30



ANTI-THEFT SYSTEM

The Ultimate in security that's as easy as turning a key. It's the industry's first standard-equipment 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.

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 key







■ Un-programmed key



Insert key

The alarm sounds

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 settlings, 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
- 3. Warning Lamps (Overheating, Hydraulic, Battery)
- 4. LCD Display (Time, Hour, rpm)







Hour meter

Tachometer





or reduce it to navigate narrow spaces.

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 α ideal for work in congested urban areas and inside buildings.



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

pressure. This process is achieved without the

Even with the optional long arm, the U20-3lpha

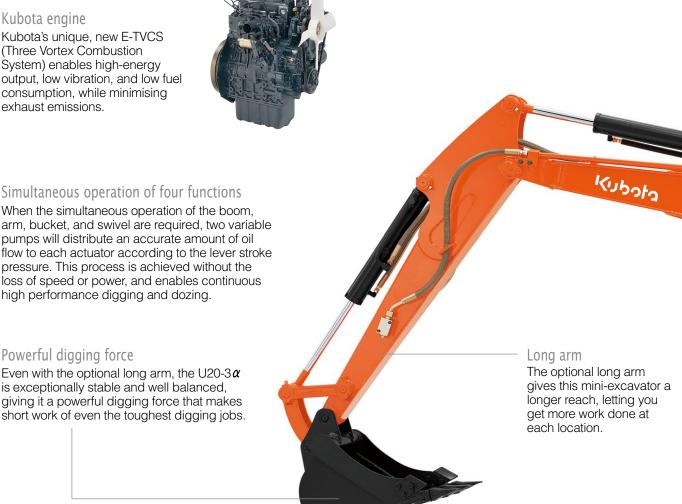
giving it a powerful digging force that makes

short work of even the toughest digging jobs.

is exceptionally stable and well balanced,

high performance digging and dozing.

Powerful digging force





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.

Kupota 93% 79 **U20-3**A

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 α 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.







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





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.

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.

Standard Equipment

Engine/Fuel System

- Kubota original engine
- 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
- Variable track system

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

0. 20 1071.10110					*Rubber shoe type		
Model				U20-3α			
Туре				Cabin	Canopy		
g wei	ght*1	(variab	le track)	kg	2380	2180	
Mod	el				D1105-E4-BH		
Туре	Э				Water-cooled, diesel engine ETVCS		
Out	Output ISO90249 F				18.4 / 2200		
				kW / rpm	13.5 / 2200		
Nun	lumber of cylinders				3		
Bore	Bore × Stroke			mm	72 × 78.4		
Disp	Displacement			CC	1123		
ength				mm	3850		
eight				mm	2360 2370		
g spe	ed			rpm	9.6		
hoe v	vidth			mm	250		
Dozer size (width × height) mm				mm	1300 / 1500 × 290		
			P1,P2		Variable displacement pump		
	Flow rate ℓ/min		23 + 23				
	Hydraulic pressure MPa(kgf/cm²)			MPa (kgf/cm²)	21.6 (220.0)		
	P3				Gear type		
	Flo	Flow rate ℓ/min			12.8		
	Hyd	ydraulic pressure MPa(kgf/cm²)		20.6 (210.0)			
ging	Arn	Arm kN (kgf)			13.2 (1350)		
	Buc	Bucket kN (kgf)		18.4 (1880)			
ing a	ngle	(left/rig	ht)	deg	75 / 55		
!	Flow rate ℓ /min		35.8				
	Hydraulic pressure MPa(kgf/cm²)		21.6 (210.0)				
rese	rvoir			ℓ	22		
сара	city			ℓ	28		
Max. travelling speed (low / high) km/h					2.2 / 4.2		
Ground contact pressure kPa(kgf/cm²)				26.6 (0.27)	25.1 (0.26)		
Ground clearance mm					160		
Noise level LpA / LwA (2000/14/			4/EC) dB (A)	79.6 / 93	78 / 93		
		1		<2.5 / <2.5			
		Driving / Idling m/s2 RMS		<2.5 / <2.5			
		Digging / Levelling m/s2 RMS		<0.5 / <0.5			
		Driving / Idlin	ving / Idling m/s2 RMS <0.5 / <0.5		1 <0.5		
	Mod Type Outp Num Bore Disp ength eight eight g spe hoe v c (wid	Model Type Output IS Number - Bore × S Displace ength eight g speed shoe width × P1, Floo Hyc P3 Floo Hyc ging Arm Buc ring angle c reservoir c capacity relling spee contact pre- colearance rel Hand arm (ISO 5349-	Number of cylin Bore × Stroke Displacement eight g speed shoe width te (width × height P1,P2 Flow rate Hydraulic p P3 Flow rate Hydraulic p Flow rate Hydraulic p Greservoir c capacity relling speed (low contact pressure elearance rel LpA / Hand arm system (ISO 5349-2:2001) Whole body	Type Output ISO90249 Number of cylinders Bore × Stroke Displacement eight g speed shoe width re (width × height) P1,P2 Flow rate Hydraulic pressure P3 Flow rate Hydraulic pressure Ging Arm Bucket Flow rate Hydraulic pressure Greservoir Capacity relling speed (low / high) contact pressure rel LpA / LwA (2000/1 Hand arm system (ISO 2631-11997) Whole body (ISO 2631-11997) Digging / Lev	Model	Cabin Gamma Gamm	

^{*1} With 47.5 kg Kubota original bucket, 75 kg operator, full tanks.

LIFTING CAPACITY

With star	ndard track type, 940 mm arm, cabin
	1.161. 1.1 (0.)

kN (ton)

			()			
Lift Point Height	Liftir	ng point radius	(2m)	Lifting point radius (Max)		
	Over	-front	Over-side	Over-front		Over-side
	Blade Down	Blade UP	Over-side	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 arm, cabin

kN (ton)

Lift Point Height	Liftino	g point radius (2.5m)	Lifting point radius (Max)		
	Over	-front	Over-side	Over-front		Over-side
	Blade Down	Blade UP		Blade Down	Blade UP	Over-side
1.5m	4.7 (0.48)	4.5 (0.46)	4.6 (0.47)	-	-	-
1.0m	5.8 (0.59)	4.3 (0.44)	4.5 (0.45)	3.9 (0.40)	2.5 (0.25)	2.4 (0.25)
0m	7.0 (0.72)	4.1 (0.42)	4.2 (0.43)	-	-	-
-1.0m	6.1 (0.62)	4.1 (0.42)	4.2 (0.43)	-	-	-

KUBOTA EUROPE S.A.S.

19 rue Jules Vercruysse Zone Industrielle - CS 50088 95101 Argenteuil Cedex France Téléphone: (33) 01 34 26 34 34 Télécopieur : (33) 01 34 26 34 99

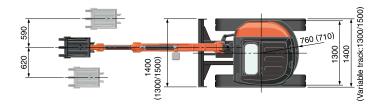
KUBOTA (U.K.) LTD

Dormer Road, Thame, Oxfordshire,

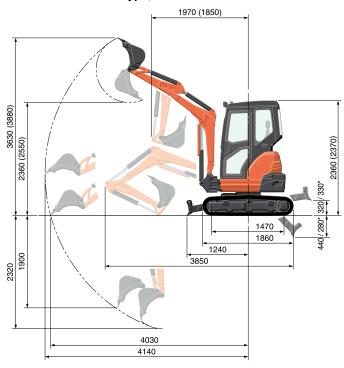
OX9 3UN, U.K. Phone: 01844-268140 Fax: 01844-216685

http://www.kubota-eu.com

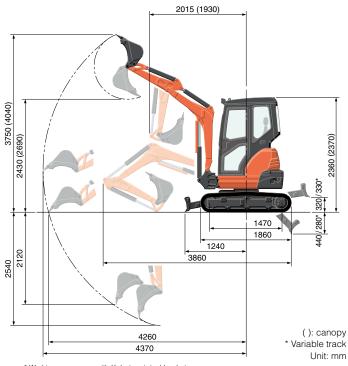
WORKING RANGE



With standard track type, 940 mm arm



With standard track type, 1190 mm arm



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

* Specifications are subject to change without notice

KUBOTA Baumaschinen GmbH

Steinhauser Straße 100 D-66482 Zweibrücken Germany Telefon: (49) 0 63 32 - 487 - 312 Fax: (49) 0 63 32 - 487 - 101



^{*2}These values are measured under specific conditions at maximum engine speed and can deviate, depending on the operating status.

^{*} 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.

for purpose of improvement.