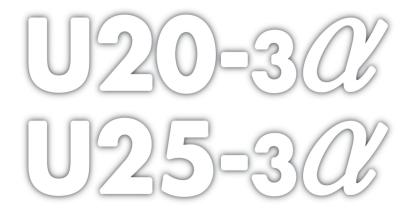
KUBOTA ZERO-TAIL SWING MINI-EXCAVATOR







Intelligent design, sophisticated performance, and new levels of security, and comfort. These miniexcavators are ready for today's tough jobs.

These are minis for modern jobs. Those tough jobs in tight corners that demand precision control, state-of-the-art performance, and maximum safety and security. And these minis are 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 minis for a wide range of modern jobs.

$U20-3\alpha/U25-3\alpha$



ANTI-THEFT SYSTEM NEW

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 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



Insert kev



The excavator moves

■ Un-programmed key



Insert kev



The alarm sounds



Insert the Red programming key, then press the monitor button



Insert new individual Black operational key

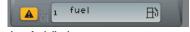
DIGITAL PANEL NEW

Kubota's Intelligent Control System keeps you informed with timely diagnostic readings and routine maintenance alerts that can reduce downtime and repair fees. The large digital panel displays current working conditions, warning indicators for engine rpm and hour meter, and fuel, temperature and oil levels. It even tells you during fuel refilling when the tank is nearly full.









Low fuel display



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. Zerotail swing also means excellent balance and stability and faster operation, making these mini-excavators 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.

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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, these mini-excavators are exceptionally stable and well balanced, giving them a powerful digging force that makes short work of even the toughest digging jobs.





Long arm

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

Kubota



Travelling System

Rough terrain is not a problem for these rugged travelers, 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 α and U25-3 α feature 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 new, thicker, 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.

SPECIFICATIONS (U20-3 α)

*Rubber shoe type

						*Rubber shoe type	
Туре						Variable track type	
Machine weight			Cabin kg			2380	
			Canopy kg			2180	
Bucket o	capacit	y, st	d. SAE/CECE		m³	0.066/0.056	
Bucket v	width	wit	th side teeth		mm	450	
- Bucket v	·	wit	thout side te	eth	mm	400	
	Mode	I				D1105-E2-BH-12	
	Туре					Water-cooled,diesel engine E-TVCS(Economical,ecological type)	
Fusina	0		00240		PS/rpm	19/2200	
Engine	Outpi	יכו זג	09249		kW/rpm	14/2200	
	Numb	er o	f cylinders			3	
	Bore :	× Str	oke		mm	72 × 78.4	
	Displ	acen	nent		сс	1123	
Overall	length				mm	3850	
Overall	heiaht		Cabin mm			2360	
Overan	neignt		Canopy		mm	2380	
Swivelli	ng spe	ed			rpm	9.6	
Rubber	shoe w	idth			mm	250	
Tumble	r distar	ice			mm	1470	
Dozer s	ize (wi	dth >	(height)		mm	1300/1500 × 290	
	Р1,	P2				Variable displacement pump	
	Flo	w ra	te		ℓ/min	23 + 23	
Hydraul	іс Ну	drau	lic pressure	MP	a(kgf/cm²)	21.6 (220.0)	
pumps	Р3					Gear type	
	Flo	w ra	te		ℓ/min	12.8	
	Ну	drau	lic pressure	MP	a(kgf/cm²)	20.6 (210.0)	
			Arm		kN (kgf)	13.2 (1350)	
Max.digging force			Bucket		kN (kgf)	18.4 (1880)	
Boom swing angle (left/right)			(left/right)	t) deg		75/55	
Auxiliar	y Flo	w ra	te		ℓ/min	35.8	
circuit	Ну	drau	lic pressure	MP	a(kgf/cm²)	21.6 (210.0)	
Hydraulic reservoir			ℓ	22			
Fuel tank capacity ℓ					28		
Max. travelling			Low		km/h	2.2	
speed	5		High	km/h		4.2	
Ground	contac	t	Cabin			27.2 (0.28)	
pressure		İ	Canopy kPa(kgf/cm²)		a(kgf/cm²)	25.7 (0.26)	
Ground clearance r					mm	160	
					mm		

LIFTING CAPACITY (U20-3 α)

With standard track type: 940 mm

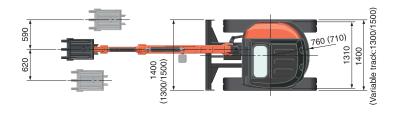
Standard arm kN (ton)									
Lift Point Height		g point radius	(2m)	Lifting point radius (Max)					
	Over-	front	Over-side	Over-front		Over-side			
	Blade Down	Blade UP		Blade Down	Blade UP	Over-side			
1.5m	6.9 (0.71)	6.4 (0.65)	5.4 (0.55)	-	-	-			
1.0m	9.1 (0.93)	6.1 (0.62)	5.1 (0.52)	4.4 (0.44)	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

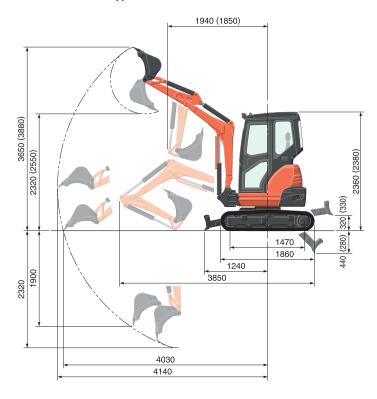
with variable track type: 1190 mm									
Long arm kN (ton)									
Lift Point Height		point radius	(2.5m)	Lifting point radius (Max)					
	Over-	-front	Over-side	Over-front		Over-side			
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side			
1.5m	4.7 (0.48)	4.7 (0.48)	4.6 (0.47)	-	-	-			
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)	-	-	-			

Please note:

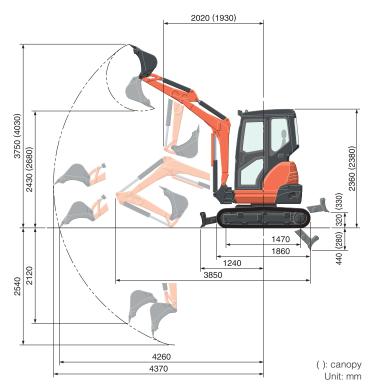
WORKING RANGE (U20-3 α)



With standard track type: 940 mm



With variable 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.

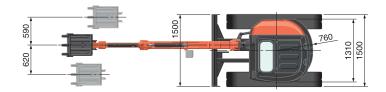
^{*} The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

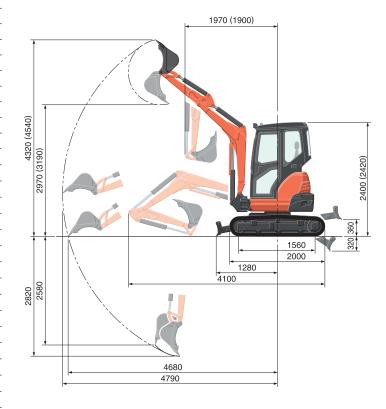
^{*} The excavator bucket, hook, sling and other lifting accessories are not included on this table.

SPECIFICATIONS (U25-3 α)

						*Rubber shoe type		
Machine weight		h+	Cabin		kg	2550		
		ΠL	Canopy kg		kg	2470		
Bucket capacity, std. SAE/CECE m ³						0.080/0.064		
Bucket width with side teeth					mm	500		
	widtii	w	thout side te	eth	mm	450		
	Mod	el				D1105-E2-BH-13		
	Туре	9				Water-cooled,diesel engine E-TVCS(Economical,ecological type)		
	O	10	00240		PS/rpm	21/2400		
Engine	Outp	out is	O9249		kW/rpm	15.5/2400		
	Num	ber	of cylinders			3		
	Bore	\times St	roke		mm	72 × 78.4		
	Disp	lacer	nent		сс	1123		
Overall	length	ı			mm	4100		
Overall	haiah	t	Cabin mm			2400		
Overan	neign		Canopy		mm	2420		
Swivelli	ng spe	eed			rpm	9.8		
Rubber	shoe	widtł	ı		mm	300		
Tumble	r dista	ınce			mm	1560		
Dozer s	ize (w	idth	× height)		mm	1500 × 290		
	P1	,P2				Variable displacement pump		
	FI	ow r	ate		ℓ/min	28.8 + 28.8		
Hydraul	ic Hy	ydrai	ılic pressure	MP	a(kgf/cm²)	21.6 (220.0)		
pumps	Р3	3				Gear type		
	FI	ow r	ate		ℓ/min	19.2		
	Hy	Hydraulic pressure MPa(kgf/cm²)				17.2 (175.0)		
Marrialia.	Max.digging force		Arm		kN (kgf)	14.4 (1465)		
Max.dig			Bucket		kN (kgf)	21.6 (2200)		
Boom sv	Boom swing angle (left/right) deg				deg	75/55		
Auxiliar	y Fl	ow r	ate		ℓ/min	48		
circuit	Hy	ydrai	ılic pressure	MP	a(kgf/cm²)	21.6 (210.0)		
Hydraulic reservoir					22			
Fuel tank capacity ℓ					28			
Max. tra	vellin	a	Low km/h		km/h	2.5		
speed		,	High	ligh km/h		4.5		
Ground	conta	.ct	Cabin	kP	a(kgf/cm²)	24.0 (0.24)		
pressure			Canopy	kP	a(kgf/cm²)	22.9 (0.23)		
Ground	Ground clearance				mm	300		
						•		

WORKING RANGE (U25-3 α)

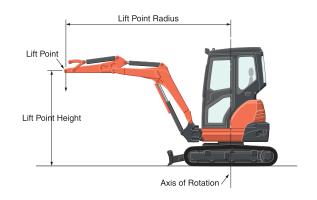




(): canopy Unit: mm

LIFTING CAPACITY (U25-3 α)

Long arm kN (ton									
Lift Point Height	Liftin	g point radius	(3m)	Lifting point radius (Max)					
	Over-	front	Over-side	Over-	Over-side				
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side			
3m	3.6 (0.37)	3.6 (0.37)	3.6 (0.37)	-	-	-			
2m	3.9 (0.40)	3.9 (0.40)	3.8 (0.38)	-	-	-			
1 m	5.1 (0.52) 4.3 (0.44		3.6 (0.37)	3.8 (0.39)	2.6 (0.27)	2.2 (0.22)			
0m	5.9 (0.60) 4.2 (0.42)		3.4 (0.35)	-	-	-			
-1 m	5.4 (0.55)	4.1 (0.42)	3.4 (0.35)	-	-	-			



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.

Standard Equipment

Engine/Fuel System

- Double-element air cleaner
- Electric fuel pump

Undercarriage

- 250mm rubber track (U20-3 α)
- 300 mm rubber track (U25-3 α)
- 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

- 1190 mm arm (U20-3 α)
- 1350 mm arm (U25-3 α)
- 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) [U20-3 α]
- \bullet 300mm steel track (+100kg) [U25-3lpha]



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