Standard Equipment

Engine/Fuel System

- Double-element air cleaner
- Electric fuel pump

Undercarriage

- 250 mm 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 valveAnti-theft system

Working Equipment

- 1190 mm arm (U20-3α)
- 1350 mm arm (U25-3α)
- 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

- 250 mm steel track (+60kg) [U20-3α]
- 300 mm steel track (+100 kg) [U25-3α]



KUBOTA ZERO-TAIL SWING MINI-EXCAVATOR





KUBOTA (U.K.) LTD
Dormer Road, Thame Oxfordshire,

OX93UN, U.K.
Phone: 01844-214500
F a x: 01844-261568



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 α /U25-3 α



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.

(1) 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



The excavator moves



■ Un-programmed key

The alarm sounds



Insert the Red programming key, then press the monitor button



7 Insert new individual Black

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



1300 mm 1500 mm

Increase the track gauge for greater stability. 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. 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.



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.



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

Structure (ROPS) and Falling Object

available. The cabin version features a stylish layout that provides a high

Protective Structure (FOPS). Both

cabin and canopy versions are

level of operator comfort.

by the integrated Roll-Over Protective

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.



Long arm

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



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.



For safer loading/off-loading, the Hydraulic Matching System ensures straight travel even during simultaneous operation.



W25-3Q

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



Control valve inspection

Located beneath the cabin floor,

the control valve can be accessed by

When an involved repair is required, the

steps and cover below the seat can all

be removed by using standard tools.

simply removing the steps by hand.

protector safeguards against

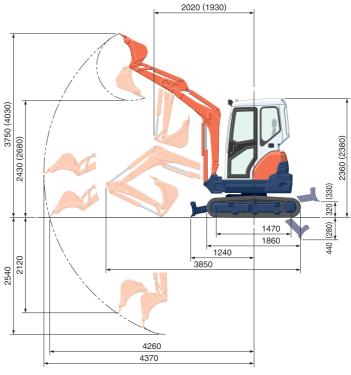
Two-piece hose design

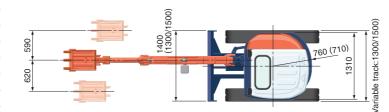
The innovative, two-piece, hydraulic hose design for the dozer reduces hose replacement time by 60% when compared to a one-piece hose design. What's more, this design virtually eliminates heavy labour rom the actual hose replacement process.

SPECIFICATIONS (U20-303)

*Rubber shoe type Type Variable track type 2250 2160 Canopy Bucket capacity, std. SAE/CECE 0.066/0.056 with side teeth without side teeth 400 Model D1105-E2-BH-12 Water-cooled, diesel engine E-TVCS (Economical, ecological type) PS/rpm 19/2200 Engine Output ISO9249 kW/rpm 14/2200 Number of cylinders Bore × Stroke 72×78.4 1123 Displacement 3850 Overall length mm 2360 mm Overall height 2380 Swivelling speed 9.6 Rubber shoe width 250 Tumbler distance 1470 Dozer size (width × height) 1300/1500 × 290 Variable displacement pump 23 + 23Flow rate 21.6 (220.0) Hydraulic pressure MPa(kgf/cm²) Hydraulic pumps 12.8 Flow rate Hydraulic pressure MPa(kgf/cm²) 20.6 (210.0) 13.2 (1350) Max.digging force 18.4 (1880) kN (kgf) 75/55 Boom swing angle (left/right) deg ℓ/min 35.8 Auxiliary circuit Hydraulic pressure MPa(kgf/cm²) 21.6 (210.0) Hydraulic reservoir Fuel tank capacity Max. travelling km/h 4.2 27.2 (0.28) kPa(kgf/cm²) Ground contact pressure kPa(kgf/cm2) 25.7 (0.26) Canopy

WORKING RANGE (U20-3 th)





LIFTING CAPACITY (U20-3 tx)

With variable track type:1500mm [1300mm]

						1111 (1011)	
Lift Point Height	ı	Lifting point radiu	s (2.5m)	Lifting point radius (3.5m)			
	Over-front		Over-side	Over-front		Over-side	
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side	
3m	4.4 (0.45)	4.4 (0.45)	4.4 (0.45) [4.4 (0.45)]	_	_	_	
2m	4.6 (0.47)	4.6 (0.47)	4.6 (0.47) [4.4 (0.45)]	_	_	_	
1 m	6.8 (0.69)	5.4 (0.55)	5.2 (0.53) [4.1 (0.42)]	4.9 (0.50)	3.2 (0.33)	3.2 (0.32) [2.5 (0.26)]	
0m	8.3 (0.84)	5.1 (0.52)	5.0 (0.51) [3.9 (0.40)]	5.1 (0.52)	3.1 (0.32)	3.1 (0.32) [2.4 (0.25)]	

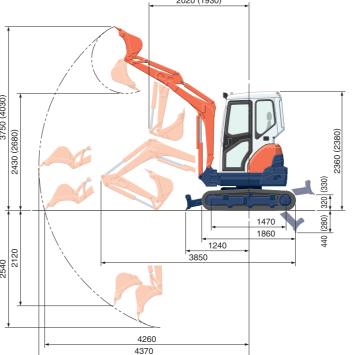
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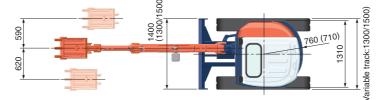
Ground clearance

* The lifting capacities are based on ISO 10567 and do not exceed 75% of the

static till 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.



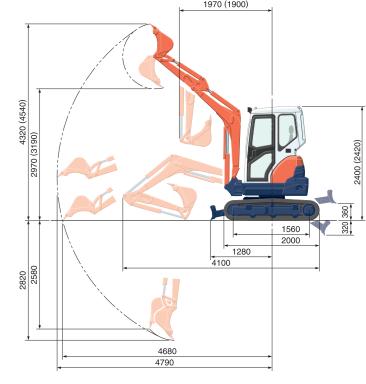


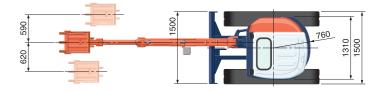
(): canopy

SPECIFICATIONS (U25-30)

					*Rubber shoe ty		
Machine weight			Cabin kg		2550		
			Canopy k		2470		
Bucket capacity, s			d. SAE/CECE	m ³	0.080/0.064		
Duelos.	ماخامنى	wit	th side teeth mm		500		
Bucket width		wit	hout side teeth	n mm	450		
	Mode	ĺ			D1105-E2-BH-13		
	Туре				Water-cooled, diesel engine E-TVCS (Economical, ecological type		
Engine	Outro	.+ IC/	09249	PS/rpm	21/2400		
Erigine	Outpt	אנ ואנ	J9249	kW/rpm	15.5/2400		
	Numb	er o	f cylinders		3		
	Bore	< Str	oke	mm	72 × 78.4		
	Displa	acem	ient	сс	1123		
Overall length mm					4100		
Overall	hoiaht		Cabin	mm	2400		
Overan	neignt		Canopy	mm	2420		
Swivelli	ng spe	ed		rpm	9.8		
Rubber	shoe w	idth		300			
Tumble	r distar	ice		mm	1560		
Dozer s	ize (wi	dth ×	height)	mm	1500 × 290		
	Р1,	P2			Variable displacement pump		
	Flo	w ra	te	ℓ/min	28.8 + 28.8		
Hydraul	іс Ну	drau	lic pressure M	Pa(kgf/cm²)	21.6 (220.0)		
pumps	Р3				Gear type		
	Flo	w ra	te	ℓ/min	19.2		
	Нус	Hydraulic pressure		Pa(kgf/cm²)	17.2 (175.0)		
			Arm	kN (kgf)	14.4 (1465)		
Max.dig	ging fo	rce	Bucket	kN (kgf)	21.6 (2200)		
Boom sv	wing ar	ngle	(left/right)	deg	75/55		
Auxiliar	FI	w ra		ℓ/min	48		
circuit	′ —	drau	lic pressure M	Pa(kgf/cm²)	21.6 (210.0)		
Hydraulic reservoir			l	22			
Fuel tan	Fuel tank capacity			ℓ	28		
Max. travelling		Ť	Low km/h		2.5		
speed	. v ciiiilg		High	km/h	4.5		
Ground	contac	,		Pa(kgf/cm²)	24.0 (0.24)		
		` -			22.9 (0.23)		
pressure	е	- 1	Canopy k	Pa(kgf/cm²)	22.9 (0.23)		

WORKING RANGE (U25-3 %)



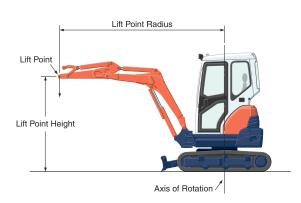


LIFTING CAPACITY (U25-312)

						kN (ton)
Lift Point Height	Liftin	g point radius	(3m)	Lifting point radius (4m)		
	Over-	front	Over-side	Over-front		0
	Blade Down	Blade UP		Blade Down	Blade UP	Over-side
3m	4.4 (0.45)	4.4 (0.45)	4.4 (0.45)	_	_	_
2m	4.8 (0.49)	4.8 (0.49)	4.7 (0.47)	_	_	_
1 m	6.3 (0.64)	5.3 (0.54)	4.4 (0.45)	4.8 (0.49)	3.5 (0.35)	2.9 (0.30)
0m	7.3 (0.74)	5.1 (0.52)	4.2 (0.43)	_	_	_

* 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 guick coupler. * Specifications are subject to change without notice for purpose of improvement.

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