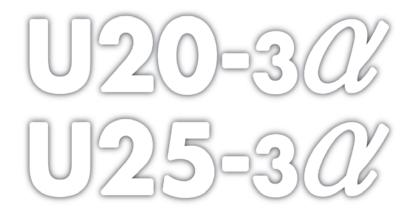
KUBOTA ZERO-TAIL SWING MINI-EXCAVATOR







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.



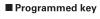
The industry's first standard-equipment anti-theft system makes security as easy as turning a key - the correct key - because the engine only starts when you insert the correct IC-equipped operation key.

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.

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.



Insert kev



■ Un-programmed key





Insert kev

The alarm sounds



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.



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.











or reduce it to navigate narrow spaces.

ZERO-TAIL SWING

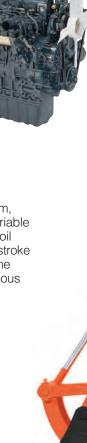
With zero-tail swing, even the tightest spaces become efficient work places. The tail always stays within the width of the tracks, letting you turn the cab throughout its 360-degree turning radius with complete confidence and safety and fewer accidents with things behind you. Zerotail swing also means 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.



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

Kuboto



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.

Kubota 93. 79 **U25**-3€

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.

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 valve
- Anti-theft system

Working Equipment

- 1190 mm arm (U20-3 α)
- 1350mm 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

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



SPECIFICATIONS (U20-3 α)

*Rubber shoe type

						*Rubber shoe typ		
Туре						Variable track type		
Machine weight		.	Cabin kg			2380		
			Canopy kg		kg	2180		
Bucket capacity, std. SAE/CECE m ³			0.066/0.056					
Bucket w	/idth	wit	h side teeth		mm	450		
Ducket vi	, acii	wit	hout side tee	eth	mm	400		
	Model					D1105-E2-BH-12		
	Type					Water-cooled,diesel engine E-TVCS(Economical,ecological type)		
Fasins	Outrous	+ ICC	20240		PS/rpm	19/2200		
Engine	Output	t ISC)9249		kW/rpm	14/2200		
	Numbe	er o	f cylinders			3		
	Bore ×	Stro	oke		mm	72 × 78.4		
	Displa	cem	ent		сс	1123		
Overall I	ength				mm	3850		
Overall h	naiaht	Cabin		mm		2360		
Overanii	leight		Canopy		mm	2380		
Swivellin	ig spee	d			rpm	9.6		
Rubber	hoe wi	dth			mm	250		
Tumbler distance mm					1470			
Dozer si	ze (wid	th ×	height)		mm	1300/1500 × 290		
P1,P2		2				Variable displacement pump		
	Flov	v rat	te		ℓ/min	23 + 23		
Hydrauli	_c Hyd	raul	ic pressure	MP	a (kgf/cm²)	21.6 (220.0)		
pumps	Р3	Р3				Gear type		
	Flov	w rate ℓ /min				12.8		
	Hyd	ydraulic pressure MPa(kgf/cm²)			a (kgf/cm²)	20.6 (210.0)		
. I:			Arm		kN (kgf)	13.2 (1350)		
Max.digging force		rce	Bucket		kN (kgf)	18.4 (1880)		
Boom sw	ing an	gle ((left/right)		deg	75/55		
Auxiliary	, Flov	Flow rate ℓ /min				35.8		
circuit	Hyd	Hydraulic pressure MPa(kgf/cm²)				21.6 (210.0)		
Hydraulic reservoir		e	22					
Fuel tank capacity ℓ			28					
Max. travelling					km/h	2.2		
speed	9		High		km/h	4.2		
Ground	contact		Cabin	kP	a (kgf/cm²)	27.2 (0.28)		
pressure			Canopy kPa(kgf/cm²)		a (kgf/cm²)	25.7 (0.26)		
Ground clearance						160		

LIFTING CAPACITY (U20-3 α)

With standard track type: 940 mm

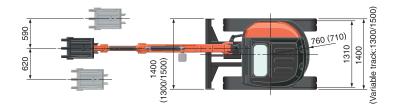
Standard arm kN (ton)								
Lift Point Height		g point radius	(2m)	Lifting point radius (Max)				
	Over-	front	Over-side	Over-front		Over-side		
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side		
1.5m	6.9 (0.71)	6.4 (0.65)	5.4 (0.55)	-	-	-		
1.0m	9.1 (0.93)	6.1 (0.62)	5.1 (0.52)	4.4 (0.44)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

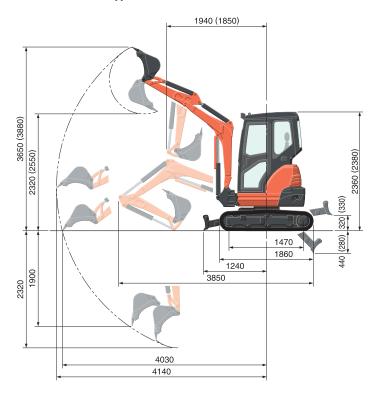
Long arm						kN (ton)
Lift Point Height		point radius	(2.5m)	Lifting point radius (Max)		
	Over-	front	Over-side	Over-front		Over-side
	Blade Down	Blade UP		Blade Down	Blade UP	Over-side
1.5m	4.7 (0.48)	4.7 (0.48)	4.6 (0.47)	-	-	-
1.0m	5.8 (0.59)	4.6 (0.47)	4.5 (0.45)	3.9 (0.40)	2.5 (0.25)	2.4 (0.25)
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:

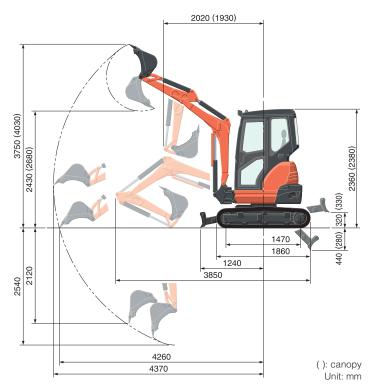
WORKING RANGE (U20-3 α)



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.

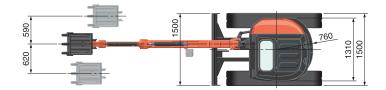
^{*} The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

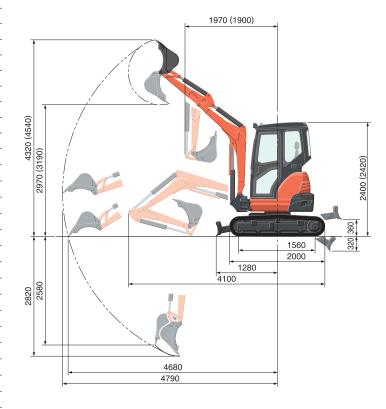
^{*} The excavator bucket, hook, sling and other lifting accessories are not included on this table.

SPECIFICATIONS (U25-3 α)

					*Rubber shoe type		
Machine weig			Cabin	kg	2550		
Maciline	weigi	11	Canopy		2470		
Bucket capacity, std. SAE/CECE m ³					0.080/0.064		
Bucket width wit			th side teeth	mm	500		
			thout side tee	th mm	450		
	Mode	el .			D1105-E2-BH-13		
	Туре				Water-cooled,diesel engine E-TVCS(Economical,ecological type)		
F	0		00240	PS/rpm	21/2400		
Engine	Outp	ut 15	09249	kW/rpm	15.5/2400		
	Numl	oer c	of cylinders		3		
	Bore	× Str	oke	mm	72 × 78.4		
	Displ	acen	nent	СС	1123		
Overall	length			mm	4100		
Overall	hoiaht	Cabin			2400		
	neignt		Canopy	mm	2420		
Swivelli	ng spe	ed		rpm	9.8		
Rubber	shoe w	/idth	l	mm	300		
Tumble	r distar	nce		mm	1560		
Dozer s	ize (wi	dth :	< height)	mm	1500 × 290		
	P1.	,P2			Variable displacement pump		
	Flo	w ra	ite	ℓ/min	28.8 + 28.8		
Hydraul	іс Ну	drau	llic pressure	MPa(kgf/cm²)	21.6 (220.0)		
pumps	Р3				Gear type		
	Flo	w ra	ite	ℓ/min	19.2		
	Ну	Hydraulic pressure MPa(kgf/cm²)			17.2 (175.0)		
			Arm	kN (kgf)	14.4 (1465)		
Max.dig	ging fo	orce	Bucket	kN (kgf)	21.6 (2200)		
Boom sv	wing a	ngle	(left/right)	deg	75/55		
Auxiliar	y Flo	ow rate ℓ/min			48		
circuit	′ 	drau	lic pressure	MPa (kgf/cm²)	21.6 (210.0)		
Hydraulic reservoir ℓ			r	22			
Fuel tank capacity ℓ					28		
Max. tra	velling	elling Low		km/h	2.5		
speed		'	High km/		4.5		
Ground	contac	t	Cabin	kPa(kgf/cm²)	24.0 (0.24)		
pressure			Canopy	kPa(kgf/cm²)	22.9 (0.23)		
Ground	cleara	nce		mm	300		
					i		

WORKING RANGE (U25-3 α)

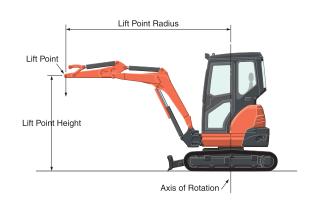




(): canopy Unit: mm

LIFTING CAPACITY (U25-3 α)

Long arm kN (ton)								
Lift Point Height		g point radius	s (3m)	Lifting point radius (Max)				
	Over-	front	Over-side	Over-front		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.

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

KUBOTA (U.K.) LTD

Dormer Road, Thame, Oxfordshire, OX93UN, U.K. Phone: 01844-268140 Fax: 01844-216685

KUBOTA Baumaschinen GmbH

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