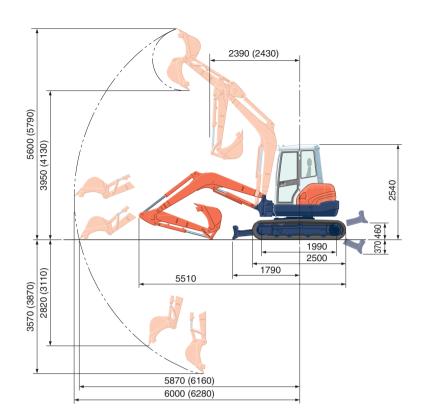
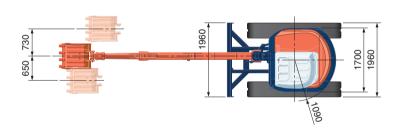
SPECIFICATIONS

					*Rubber shoe type		
Machine w	eight	Cabi	n	kg	5100		
Bucket cap	oacity,	std.	SAE/CECE	m^3	0.17/0.15		
Bucket	With	side t	eeth	mm	680		
width	With	out si	de teeth	mm	650		
	Mode	el			V2203-M-EBH-2-N		
Engine	Туре				Water-cooled, diesel engine E-TVCS (Economical, ecological type)		
	Output ISO9249		PS/rpm	40/2250			
			kW/rpm	29.4/2250			
	Num	ber of	cylinders	4			
	Bore	× Stro	ke	mm	83 × 92.4		
	Displ	acem	ent	СС	2197		
Overall length				mm	5510		
Overall he	ight	Cabin		mm	2540		
Swivelling speed				rpm	9.3		
Rubber shoe width				mm	400		
Tumbler distance				mm	1990		
Dozer size (width × height)				mm 1960 × 390			
		P1			Variable displacement pump		
Hydraulic pumps		Flow rate		ℓ/min	121.5		
		Hydraulic pressure		MPa (kgf/cm²)	23.5 (240)		
Max. digging force		Arm		kN (kgf)	24.5 (2495)		
		Bucket		kN (kgf)	39.9 (4075)		
Boom swir	ng ang	le (le	ft/right)	deg	80/50		
Auxiliary circuit		Flow rate		ℓ/min	75		
		Hydraulic pressure		MPa (kgf/cm²)	23.5 (240)		
Hydraulic reservoir				ℓ 44			
Fuel tank	capaci	ty		ℓ	70		
Max. travelling speed		Low		km/h	2.5		
		High		km/h	4.4		
Ground contac	re	Cabin	kPa (kgf/cm²)	28.8 (0.294)			
Ground clearance				mm	320		

WORKING RANGE

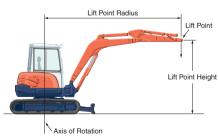




(): Long Arm Unit: mm

LIFTING CAPACITY

						kN (ton)
	Liftin	g point radius	(3m)	Lifting point radius (4m)		
Lift Point Height	Over	-front	0	Over-front		Over-side
	Blade Down	Blade UP	Over-side	Blade Down	Blade UP	Over-side
3 m	-	-	-	9.8 (1.00)	9.8 (1.00)	9.5 (0.97)
2m	15.3 (1.56)	15.3 (1.56)	14.1 (1.44)	11.4 (1.16)	10.5 (1.07)	9.1 (0.93)
1 m	20.3 (2.07)	15.4 (1.57)	13.1 (1.33)	13.3 (1.36)	10.1 (1.03)	8.7 (0.89)
0m	21.8 (2.23)	14.9 (1.52)	12.6 (1.29)	14.4 (1.47)	9.8 (1.00)	8.5 (0.86)



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.

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KUBOTA MINI EXCAVATOR





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

Ground breaking performance that results in increased operator confidence.

New load sensing hydraulic system

effect on operation feeling and less fuel consumption. With this new load sensing system, the hydraulic oil flow is supplied

Kubota introduces an advanced

hydraulic system that gives a better

from only one variable displacement pump. The load information on each

actuator is fed back to the pump at all

times and the pump distributes the

appropriate oil flow to each actuator

situations, equal movement to the

this load sensing hydraulic system.

Compared to conventional models,

out similar jobs.

about 20 % of fuel can be saved carrying

according to the amount of lever stroke.

As a result, regardless of different load

hydraulic cylinder is achieved relative to the lever stroke. This makes work such as lifting and levelling much smoother. In addition, when the operation control lever is in the neutral position, the pump stops supplying unnecessary oil flow. This means the pump only supplies required oil flow. Thus, unnecessary energy waste is minimised due to eliminating excessive oil return flow to the hydraulic tank with

Enhanced digging force

A well-balanced arm and bucket provides

addition, by setting the maximum operating pressure at 23.5 MPa, each digging force has been enhanced by 8.0 % in order to increase speed of even tough digging jobs.

an operator efficient digging force. In



Boom cylinder protector

The new, thicker steel plated Vshaped boom cylinder protector safeguards against damage from attachments, rocks or loading.

Four simultaneous operations

When simultaneous operation of the boom, arm, bucket, and swing is required such as when loading on to trucks or lifting, the pump distributes adequate oil flow to each actuator according to the amount of lever stroke without loss of speed or power, ensuring high performance digging and dozing at all times.

ROPS/FOPS cabin (Level1)

The cabin offers maximum operator safety with its Roll Over Protection Structure (ROPS) and Falling Object Protection Structure (FOPS).

air ventilation for greater climate control. Plus, outside air can be introduced with one touch of the external air vent.

Air conditioning (Optional) The cab's new optional deluxe air Air conditioning/heater can increase cooling, heating and

Exceptional maneuverability

You receive outstanding maneuverability for a wide range of work applications with the KX161-3 α . A mere 110 mm rear overhang when turned 90°, enables easy, smooth and stable crawling or traveling, even in confined working areas where you need it most.

Control levers

Adequate lever stroke and ergonomically-designed wrist rests provide greater control ability, smoother operation and reduces operator fatigue.

Straight travel

The New Hydraulic Matching System (New-HMS) ensures straight travel even with simultaneous operation of any other circuit for safer loading/off loading and easier de-bogging.

KX161-3Q



Faster, smoother and more responsive. Experience the unequaled power versatility of the new KX161-3 α mini excavator.



DIGITAL PANEL

Informative, interactive and functional. Kubota's Intelligent Control System keeps you in tune of the KX161-3\alpha's vital signs. It accurately displays easy to understand diagnostics of current working conditions and warning indicators for engine rpm and hour meter, as well as for fuel, temperature and oil levels. When filling-up with fuel, our panel also informs the operator that the tank is nearly full, plus alerts the operator to when routine maintenance is due. Overall, the panel reduces excavator downtime and repair fees for a decrease in total operating costs.







Detailed R&D translates into our customers' continued satisfaction.

Engine inspection

Primary points like the engine and air cleaner can be inspected and maintained quickly and easily via the rear engine cover. Fuel filter and water separator are independently installed and both are located inside engine bonnet for the easier inspection. An engine inspection window is also located behind the seat for easier access to the engine's injection nozzles.

Third line hydraulic return

The Third Line Hydraulic Return enables greater oil flow efficiency by reducing back pressure when working with hydraulically actuated attachments, such as a hydraulic hammer.

Larger fuel tank

The KX161-3 α 's fuel tank has been enlarged by 70 liters. A larger tank means you can work longer – in fact, 10 % longer without worrying about your tank running empty, even on jobs that demand long hours. What's more, it's positioned lower to help make refueling a snap, but not on your back.



Kubota engine

Kubota's unique New E-TVCS (Three Vortex Combustion System) enables high energy output, low vibration, and low fuel consumption. In addition, it minimises exhaust emissions. Among a variety of Kubota engine models which are highly-renowned in the compact equipment market, the KX161-3 α opted for the most suitable engine for its machine size in both performance and economy. The ideal choice in both machine running costs and the environment.

Control valve inspection

A quick and easy inspection of the control valve is possible simply by opening the latch on the bonnet located to the right of the cabin. When more detailed maintenance or repairs are required, the remaining panels on the swing frame can be easily removed using standard tools.



Protected bucket cylinder hoses

The bucket cylinder hoses are routed within the arm to protect from damage. This ensures a longer service life and lower repair costs. Operator visibility is also improved.

Travelling lock system

Whenever the pilot control safety lever is not engaged, the travel levers are locked mechanically to prevent unexpected machine movement especially when the operator enters or exits the cabin.

Swivel negative brake

With the swivel negative brake, the swivel function is locked automatically whenever the engine is stopped or the pilot control safety lever is raised. This feature eliminates the need for a swivel transport lock pin.

Rubber crawler

On the KX161-3 α , the rubber crawler design has better durability and stability when travelling. The lug pattern, with more ground contact surface and steel core positioning, are designed for better stability and less vibration when travelling. In addition, the double flange type track rollers contribute to better machine stability.

Reduced tail swing

The KX161-3 α features a reduced tail swing design. The rear counterweight overhang is minimised to 11 cm (60 cm on our previous model) while the rear bonnet is also kept within the crawler width when turning 90° decreasing concerns of damage to the rear bonnet. At the same time, the KX161-3 α has succeeded in keeping the equivalent stability level as on our conventional model. Hence, the operator can work worrying less about the rear tail swing and enjoy machine stability.

Two piece hose design

The innovative two piece hose design on the dozer and boom cylinders of the KX161-3 α reduces hose replacement time by 60 % compared to non-joint types. What's more, this design virtually eliminates the need to enter the machine for maintenance.

Standard Equipment

Engine/Fuel system

- Double element air cleaner
- Electric fuel pump
- Auto idling system

Cabin

- ROPS (Roll-Over Protective Structure, ISO3471)
- FOPS (Falling Objects Protective Structure) Level 1
- Weight-adjustable full suspension seat
- Seatbelt
- Hydraulic pilot control levers with wrist rests
- Travel levers with foot pedals
- Cabin heater for defrosting & demisting
- Emergency exit hammer
- Front window power-assisted with 2 gas dampers
- 12 V power source for radio-stereo
- 2 speakers and antenna
- Location for radio

Undercarriage

- 400 mm rubber track
- 1 x upper track roller
- 3 x outer flange type lower track roller
- 2 speed travel switch on dozer lever
- Bracket for anti-theft locking device

Hydraulic system

- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third line hydraulic return
- Auxiliary switch on right control lever

Safety system

- Engine start safety system on the left console
- Travel lock system on the left console
- Swivel lock system
- Boom anti-fall circuit in the control valve

Working equipment

- 1480 mm arm
- Auxiliary hydraulic circuit piping to the arm end
- 2 working lights on cabin and 1 light on the boom

Optional Equipment

Working equipment

- 1780 mm arm
- Telescopic arm

Undercarriage

- 400 mm steel track (+ 70 kg)
- 550 mm steel track (+ 370 kg)

Safety system

- Overload warning buzzer
- Anti-theft device

Cabin

Air conditioning

