KUBOTA MINI-EXCAVATOR

KX71-3

Kubota

Reaching a higher level of performance is easy when you've got the most digging power in your class. The Kubota KX71-3 mini-excavator.

Operate the KX71-3 mini-excavator's control levers. And you've got the most efficient, on-the-job performance within your hands. That's because the KX71-3 delivers the largest digging depth and reach of all mini-excavators with a long arm in its weight category. Even with the long arm, it amazingly generates the largest power in its class for both arm and bucket digging. Furthermore, the KX71-3's lifting power is so strong. Together with a host of robust features that complete the package, making the KX71-3 the stand-alone leader in performance.

Digging arm and bucket

With the ability to deliver the most digging power, plus the efficiency of a long arm, the KX71-3 produces the largest digging depth of all long-arm mini-excavators*. Even with its long arm specification, the KX71-3 amazingly generates the biggest force for both arm and bucket digging*. Moreover, it has the ability to perform a wide range of tasks. (* In its class.)

Protected bucket cylinder hoses

To extend service life and improve visibility, the bucket cylinder hoses are well protected having been routed through the arm.

Boom cylinder protector

Thanks to a V-shaped thick plate, the boom cylinder is protected from unexpected damage caused by the breaker or other attachments, rocks, being loaded onto a truck, etc.

Well protected front attachment hoses

To prevent accidental damage of the front hoses, they are routed through the swing bracket. Also, a metal cover plate located at the back of the boom protects the operator subject to a hose burst.

Variable displacement pump

For efficient operation, both the oil flow and pressure are adjusted according to the workload by the variable displacement pumps. By utilizing variable pumps a more efficient engine is selected. This gives fuel efficiency, low vibration and noise level.

Swing bracket bushes

To enhance durability, we've adopted bushes at all fixing / pivot points.

Dozer cylinder hoses

Utilising a more efficient two-piece design, the KX71-3's dozer cylinder hoses can be quickly replaced on the spot.

Upgraded features to keep your performance up while keeping downtime down.

Deluxe cabin

To keep you operating longer, our larger cabin delivers maximum comfort. It provides more legroom, an adjustable suspension seat, a radio installation kit, plus excellent visibility. Both cabin and canopy offer the security of ROPS/FOPS.

Increased rear visibility

The KX71-3 has a 28 % reduiced overhang while maintaining the same level of stability as our conventional model. Now, KX71-3 offers increased rear visibility and easier operation in confined areas.

Low noise level

When designing the KX71-3, we kept a focus on being environmentally and operator friendly. Thus, the KX71-3's noise level in the cabin is an amazingly low 79 dB.

Double-opening bonnet

Both daily maintenance and repairs will become fast and easy with the double-opening bonnet. When both panels are opened, virtually all components are within quick reach.

Kubota V1505-EBH engine

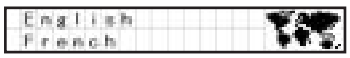
The powerful and reliable Kubota V1505-EBH engine provides economical and environmentally clean power. The engine is so fuel efficient, a full tank gives 10 hours of continuous work.

Safety lock system

To prevent unexpected machine movement, the safety lever must be raised to lock out the travel levers and pilot controls before the engine will start.

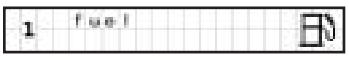
Kubota Intelligent Control System

An innovative upgrade that always keeps you in tune with the KX71-3's vital signs. The Kubota Intelligent Control System is equipped with warning indicators for engine, fuel, temperature, and oil; a service mode that enables accurate troubleshooting; and standard indicators which display current working conditions such as engine rpm, hour meter, and more.



Language selection display

Information when service time comes



Low fuel display

2-speed travel switch

With the 2-speed travel switch re-located from the floor to the dozer lever, you'll enjoy enhanced dozer operation whenever changing travel speeds.

Wrist rest

With this new feature, to assist with smooth operation and create less operator fatigue, wrist rests are fitted as standard. Slight adjustments are easy to make, plus operation is smooth and less fatiguing.

Boom swing / Auxiliary operation

For easier operation, the boom swing pedal and auxiliary hydraulic operations are controled by independent pedals—with one pedal located on the right side of the floor and the other on the left side.

Standard Equipment

Engine/Fuel system

- Double element air cleaner
- Electric fuel pump

Cabin

- ROPS (Roll-Over Protective Structure, ISO 3471)
- 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 by 2 gas dampers
- 12 V power source for radio-stereo
- Location for 2 speakers and radio antenna

Undercarriage

- 300 mm rubber track
- 1 x upper track roller
- 3 x outer flange type lower track roller
- 2 speed travel switch on dozer lever

Canopy

- ROPS (Roll-Over Protective Structure, ISO 3471)
- 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

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 anti-fall circuit in the control valve

Working equipment

- 1150 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

- 1350 mm arm (long arm)

Undercarriage

- 300 mm steel track (+ 95 kg)

Cabin

- Radio/stereo installation kit

Safety system

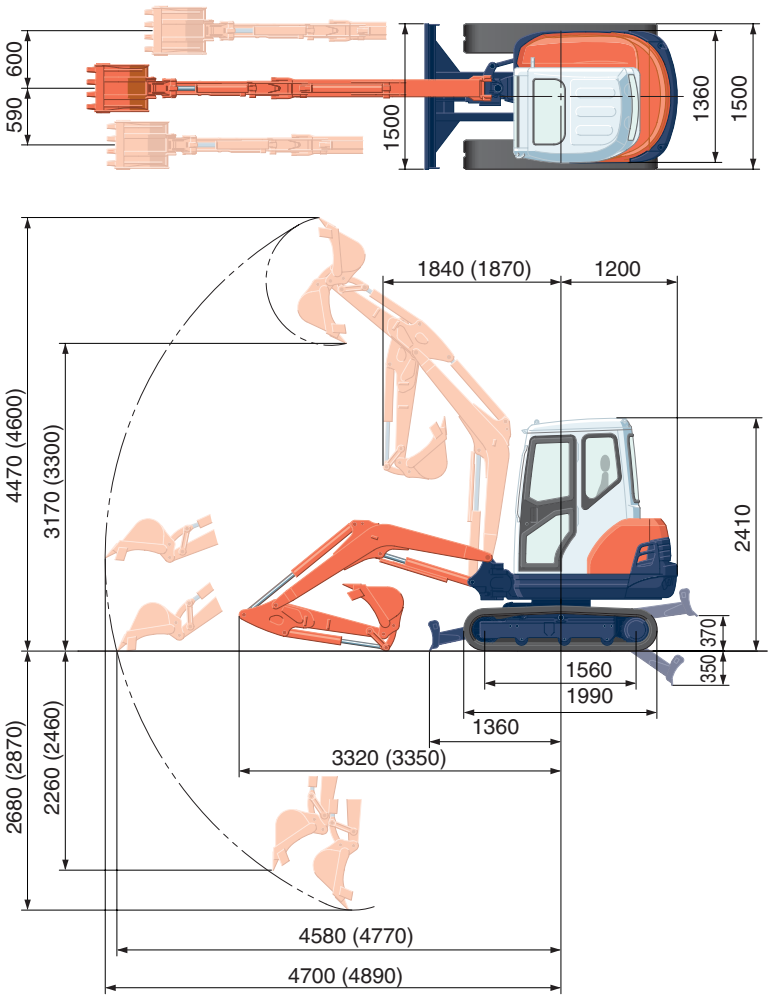
- Warning buzzer
- Anti-theft device

SPECIFICATIONS

*Rubber shoe type

Machine weight	Cabin (Std. arm/Long arm)		kg	2790/2800
	Canopy (Std. arm/Long arm)		kg	2685/2695
Bucket capacity, std. SAE/CECE			m^3	0.07
Bucket width	with side teeth		mm	505
	without side teeth		mm	480
Engine	Model			V1505-E2-BH-10EU
	Type			Water-cooled, diesel engine
	Output ISO9249		PS/rpm	27.5/2300
			kW/rpm	20.5/2300
	Number of cylinders			4
	Bore x stroke		mm	78 x 78.4
	Displacement		cc	1498
Overall length (Std. arm/Long arm)			mm	4520/4550
Overall height	Cabin		mm	2410
	Canopy		mm	2430
Swivelling speed			rpm	9.4
Rubber shoe width			mm	300
Tumbler distance			mm	1560
Dozer size (width x height)			mm	1500 x 300
Hydraulic pumps	P1,P2			Variable displacement pump
	Flow rate		ℓ/min	32.2+32.2
	Hydraulic pressure		MPa(kgf/cm²)	23.5 (240)
	P3			Gear pump
	Flow rate		ℓ/min	18.4
	Hydraulic pressure		MPa(kgf/cm²)	20.6 (210)
Max. digging force	Arm (Std. /Long)		kN (kgf)	17.5/16.2 (1790/1650)
	Bucket		kN (kgf)	25.2 (2570)
Boom swing angle (left/right)			deg	80/60
Auxiliary circuit	Flow rate		ℓ/min	50.6
	Hydraulic pressure		MPa(kgf/cm²)	20.6 (210)
Hydraulic reservoir			ℓ	34
Fuel tank capacity			ℓ	45
Max. travelling speed	Low		km/h	2.7
	High		km/h	4.6
Ground contact pressure	Cabin		kPa(kgf/cm²)	26.5 (0.270)
	Canopy		kPa(kgf/cm²)	25.0 (0.255)
Ground clearance			mm	305

WORKING RANGE



( ): Long Arm
Unit: mm

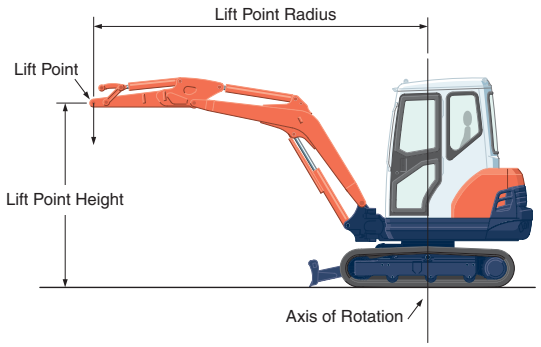
LIFTING CAPACITY

KX71-3(CAB) with standard arm: kN (ton)

Lift Point Height	Lifting point radius (2.5m)			Lifting point radius (3.5m)		
	Over-front		Over-side	Over-front		Over-side
	Blade Down	Blade UP		Blade Down	Blade UP	
2.0m	7.20 (0.73)	7.20 (0.73)	7.20 (0.73)	5.89 (0.60)	5.81 (0.59)	5.09 (0.52)
1.5m	8.95 (0.91)	8.95 (0.91)	8.15 (0.83)	6.32 (0.64)	5.72 (0.58)	5.00 (0.51)
1.0m	10.57 (1.08)	9.18 (0.94)	7.90 (0.81)	6.80 (0.69)	5.62 (0.57)	4.91 (0.50)
0m	11.79 (1.20)	8.88 (0.91)	7.57 (0.77)	7.29 (0.74)	5.49 (0.56)	4.78 (0.49)

KX71-3(CAB) with long arm: kN (ton)

Lift Point Height	Lifting point radius (2.5m)			Lifting point radius (3.5m)		
	Over-front		Over-side	Over-front		Over-side
	Blade Down	Blade UP		Blade Down	Blade UP	
2.0m	6.38 (0.65)	6.38 (0.65)	6.38 (0.65)	5.45 (0.56)	5.45 (0.56)	5.10 (0.52)
1.5m	8.10 (0.83)	8.10 (0.83)	8.10 (0.83)	5.94 (0.61)	5.72 (0.58)	5.00 (0.51)
1.0m	9.86 (1.01)	9.20 (0.94)	7.87 (0.80)	6.48 (0.66)	5.60 (0.57)	4.88 (0.50)
0m	11.64 (1.19)	8.79 (0.90)	7.49 (0.76)	7.18 (0.73)	5.43 (0.55)	4.72 (0.48)



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.

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Cat. No.8693-01-UK Printed in Japan '04-7D. <2> 3