

Kubota

KUBOTA EXCAVATOR

KX080-3



Kubota, the world's leading manufacturer of mini-excavator, is pleased to introduce the KX080-3, the new high-quality, high-performance, 8 tonne excavator versatile enough to meet all of your needs.

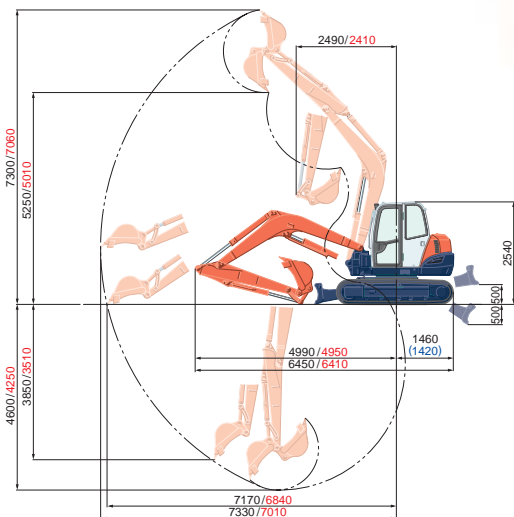
Kubota original direct injection engine

Combined with its advanced hydraulic system Kubota's original DI engine helps to maximize the strength of digging force and minimize the noise level, fuel consumption and exhaust emissions. Primary points, like the engine and air cleaner, can be inspected and maintained quickly and easily thanks to the convenient rear engine cover.



Machine performance

The KX080-3 gives performance of a conventional 8 tonne excavator, offering reduced rear-tail swing radius and with improved machine stability.



ALL NEW KUBOTA EXCAVATOR

KX080-3

Digging force

The KX080-3 offers a well-balanced arm and bucket to provide the operator with unparalleled digging force. This means that the KX080-3 can dig faster and more efficiently, even in the toughest conditions.

Two-speed travel with auto-shift

For smooth and efficient travelling operation, the KX080-3 is fitted with an automatic shift feature. This provides effortless travel for operator while travelling in the high speed mode. During travel operation, e.g. turning, tracking on slopes, travelling through muddy areas and heavy duty dozing work, travel speed drops depending on the load, however the traction force is increased. Once the load is reduced, the machine will automatically return to high speed position.

Auto idling system

Kubota Auto Idling System is fitted as standard. When high engine RPM isn't needed, or when control levers are left in neutral for longer than 4 seconds, the idling system automatically reduces the engine to idling RPM. When the levers are moved again, engine RPM is immediately reset to the dial-set RPM. This innovative feature reduces noise and exhaust emissions, in addition to saving energy and running costs.

Adjustable maximum oil flow on auxiliary circuit (SP1)

The maximum oil flow rate of the additional control circuit can be changed/adjusted by simply pushing a switch—there's no need for additional tools or manual adjusting procedures. This simplifies the utilisation of front attachments. When using a tilt bucket, you can reduce the flow to get just the right amount of control. When using attachments like a brush cutter or hydraulic hammer, the 'One-Way Flow' function can be activated. The system will even store your settings for the next time you need it, saving time and quickly regulating the flow requirements.

**The maximum oil flow can vary according to the load of front attachments.*



Kubota's KX080-3 is the first and the only mini/midi excavator to offer this unique and revolutionary feature. Combined with the Kubota Intelligent Control System, this function allows you to control the oil flow according to your needs or the attachment in use.



Load-Sensing hydraulic system

Kubota's load-sensing hydraulic system ensures smoother operation, regardless of load size. It allows hydraulic oil to flow according to the specific range of Operator's lever motion. As a result, it reduces fuel consumption and delivers greater overall operating performance.

Tight tail swing

The KX080-3 is designed with a shorter rear overhang ensuring improved workability in restricted space, increased versatility, and better stability. The rear overhang also features cast-iron protectors, which significantly reduce damage to the machine in space-restrictive work sites.

Efficient, durable and reliable—the KX080-3 Excavator is the ultimate machine for most digging applications.



ROPS/FOPS Cabin

Kubota has adopted a cabin that is certified as a Roll-Over Protection Structure and a Falling Object Protection Structure. Coupled with the safety belt, this ensures maximum operator safety.

3 bonnets for service access

For maximum ease of inspection and maintenance, the KX080-3 is designed with 3 bonnets.

Control valve

The control valve is conveniently located next to the cabin. To inspect the control valve, the bonnet cover can be opened easily and quickly with a simple flip of the latch.



Rubber crawler

The steel-core positioning and lug pattern on the KX080-3 rubber crawler was methodically designed after intensive research and testing to assure long life, outstanding durability and lower vibration when traveling.

Tank electric re-fueling pump

The KX080-3's new, standard refueling pump includes an auto-stop function that reduces spillage and increases safety. And, the tank can be completely filled in approximately three minutes.





Safety (anti-drop) valve on the boom (ISO8643)

The KX080-3 is fitted with a Boom-lowering control device (ISO8643) as standard.



Anti-Theft System

The Ultimate in security that's as easy as turning a key. It's the industry's first standard-equipment anti-theft system, and another original only from Kubota.

THE SYSTEM

Introducing Kubota's new simple and secure anti-theft system. Our one-key-system has an IC chip, which only starts the engine when the system recognises the appropriate key. Standard equipment includes one Red programming key, plus two Black operational keys. And up to four Black keys can be programmed. What's more, you get peace of mind knowing your construction equipment couldn't be in safer hands.

SAFETY/SECURITY

Only "programmed keys" will enable the engine to start. Even identically shaped keys can't start the engine unless they are programmed. In fact, attempting to start the engine with an un-programmed key will activate the system's alarm. This alarm will continue even after the un-programmed key is removed. It will only stop once a programmed key is inserted into the ignition and switched on to start the engine.

EASY PROGRAMMING

One Red programming key and two pre-programmed Black operational keys come standard. If a Black key is misplaced or if additional Black keys are needed (a maximum of two can be added), key programming is easy. Simply insert the Red key, followed by the Black keys.

EASY OPERATION

No special procedures needed. No PIN numbers needed. Just turn the key. Plus, our simple "one-key-security system" allows access to the cabin door and engine bonnet as well as the fuel tank.

Programmed key



Un-programmed key



1 Insert the Red programming key, then press the monitor button.



2 Insert new individual Black operational key.

Kubota has upgraded the cabin features on the KX080-3 to make it the most comfortable cabin in its class.



Operator Comfort

To enhance operator comfort, Kubota has improved the cabin design. The large windows offer improved visibility for Operator, and the lower-front-window-glass can be easily removed and kept behind the seat. Two speakers, aerial and wiring harness are fitted as standard. The cabin is also equipped with storage space behind the operator seat and a cup holder.

Deluxe Suspension Seat

Kubota's standard, adjustable suspension seat reduces strain and improves comfort for the operator.

Air Conditioning

The KX080-3 features an air conditioning as standard.



DIGITAL PANEL



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



Standard Equipment

Engine/Fuel system

- Double element air filter
- Electric fuel pump
- Auto idling system
- Tank electric re-fueling pump

Undercarriage

- 450 mm rubber track
- 1 x upper track roller
- 5 single-flange track rollers on each track
- 2 speed travel switch on dozer lever

Hydraulic system

- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third line hydraulic return
- Load sensing hydraulic system
- Adjustable Maximum oil flow on Auxiliary Circuit (SP1)
- Double auxiliary circuit for accessories
- Auxiliary switch (SP1) on right control lever
- Auxiliary switch (SP2) on left control lever
- Bracket and harness for beacon light
- Two-speed travel with auto-shift

Safety system

- Engine start safety system on the left console
- Travel motor with disc brake
- Swivel motor with disc brake
- Overload warning buzzer
- Kubota original anti-theft system
- Anti drop valve on the boom (ISO8643)

Working equipment

- Auxiliary hydraulic circuit piping to the arm end
- 2 working lights on cabin and 1 light on the boom
- 2100 mm arm

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
- Air conditioning
- Cabin heater for defrosting & demisting
- Emergency exit hammer
- Front window power-assisted with gas damper
- 12 V power source for radio-stereo
- 2 speakers and radio antenna
- Location for radio
- Cup holder

Optional Equipment

Undercarriage

- 450 mm steel track (+ 100 kg)

Working equipment

- 1750 mm arm (- 22 kg)

Safety system

- Anti-drop valve unit (arm and dozer)

Others

- Special paint upon request
- Without extra counter weight (- 235 kg)

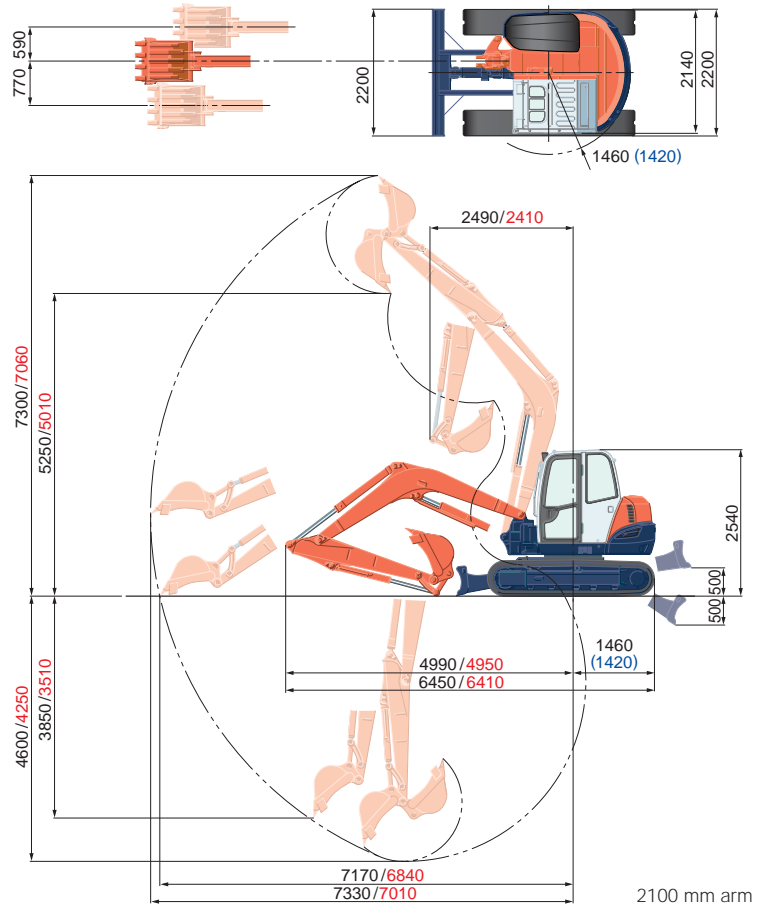


SPECIFICATIONS

*with rubber shoe, JPN bucket and 2100 mm arm

Machine weight (w/o extra counter weight)	kg	8195 (7960)	
Bucket capacity, std. SAE/CECE	m ³	0.25/0.21	
Bucket width	With side teeth	mm 800	
	Without side teeth	mm 700	
Engine	Model	V3800DI	
	Type	Water-cooled, diesel engine E-TVCS (Economical, ecological type)	
	Output ISO9249	PS/rpm	65.0/2000
		kW/rpm	47.8/2000
	Number of cylinders		4
Bore × Stroke	mm	100 × 120	
Displacement	cc	3769	
Swivelling speed	rpm	9.5	
Rubber shoe width	mm	450	
Tumbler distance	mm	2300	
Dozer size (width × height)	mm	2200 × 500	
Hydraulic pumps	P1, P2	Variable displacement pump	
	Flow rate	ℓ/min	72.0 × 2
	Hydraulic pressure	MPa (kgf/cm ²)	27.5 (280)
	P3	Gear type	
	Flow rate	ℓ/min	66.6
Max. digging force	Arm	kN (kgf)	38.1 (3880)
	Bucket	kN (kgf)	65.2 (6650)
Boom swing angle (left/right)	deg	70/60	
Minimum front swivel radius with boom swing (left/right)		2050/2380	
Auxiliary circuit (SP1)	Max. Flow rate	ℓ/min	100
	Max. Hydraulic pressure	MPa (kgf/cm ²)	20.6 (210)
Auxiliary circuit (SP2)	Max. Flow rate	ℓ/min	66.6
	Max. Hydraulic pressure	MPa (kgf/cm ²)	20.6 (210)
Hydraulic reservoir	ℓ	75	
Fuel tank capacity	ℓ	115	
Max. travelling speed	Low	km/h	2.8
	High	km/h	5.1
Ground contact pressure	kPa (kgf/cm ²)	35.6 (0.363)	
Ground clearance	mm	390	

WORKING RANGE



2100 mm arm
1750 mm arm
without extra counter weight

Unit: mm

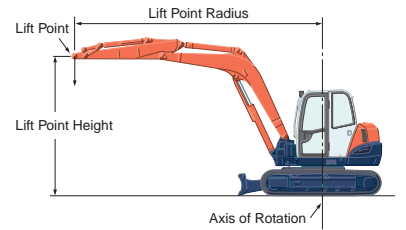
LIFTING CAPACITY

*With extra counter weight

Lift Point Height	daN (ton)												
	Lifting point radius (Min)			Lifting point radius (3m)			Lifting point radius (4m)			Lifting point radius (Max)			
	Over-front		Over-side	Over-front		Over-side	Over-front		Over-side	Over-front		Over-side	
5m	1750 Arm						1620 (1,65)	1620 (1,65)	1620 (1,65)				
	2100 Arm						1420 (1,45)	1420 (1,45)	1420 (1,45)				
3m	1750 Arm	3480 (3,55)	3480 (3,55)	3480 (3,55)	2500 (2,55)	2500 (2,55)	2500 (2,55)	1960 (2,00)	1960 (2,00)	1720 (1,75)	1620 (1,65)	1230 (1,25)	930 (0,95)
	2100 Arm	2260 (2,30)	2260 (2,30)	2260 (2,30)	2110 (2,15)	2110 (2,15)	2110 (2,15)	1770 (1,80)	1770 (1,80)	1720 (1,75)	1520 (1,55)	1130 (1,15)	880 (0,90)
2m	1750 Arm	3780 (3,85)	3430 (3,50)	2500 (2,55)	3630 (3,70)	3330 (3,40)	2400 (2,45)	2350 (2,40)	2110 (2,15)	1620 (1,65)	1620 (1,65)	1130 (1,15)	880 (0,90)
	2100 Arm	3820 (3,90)	3820 (3,90)	2890 (2,95)	3240 (3,30)	3240 (3,30)	2500 (2,55)	2210 (2,25)	2160 (2,20)	1620 (1,65)	1520 (1,55)	1030 (1,05)	780 (0,80)
1m	1750 Arm	2940 (3,00)	2940 (3,00)	2260 (2,30)	3090 (3,15)	3090 (3,15)	2210 (2,25)	2700 (2,75)	2010 (2,05)	1520 (1,55)	1670 (1,70)	1080 (1,10)	830 (0,85)
	2100 Arm	2750 (2,80)	2750 (2,80)	2550 (2,60)	4020 (4,10)	3140 (3,20)	2260 (2,30)	2600 (2,65)	2010 (2,05)	1520 (1,55)	1570 (1,60)	1030 (1,05)	780 (0,80)
0m	1750 Arm	2300 (2,35)	2300 (2,35)	2300 (2,35)	4120 (4,20)	3040 (3,10)	2160 (2,20)	2790 (2,85)	1960 (2,00)	1420 (1,45)	1720 (1,75)	1130 (1,15)	830 (0,85)
	2100 Arm	1910 (1,95)	1910 (1,95)	1910 (1,95)	4170 (4,25)	3040 (3,10)	2160 (2,20)	2790 (2,85)	1960 (2,00)	1420 (1,45)	1570 (1,60)	1030 (1,05)	780 (0,80)
-1m	1750 Arm	3290 (3,35)	3290 (3,35)	3290 (3,35)	3780 (3,85)	3040 (3,10)	2160 (2,20)	2700 (2,75)	1910 (1,95)	1420 (1,45)	1720 (1,75)	1270 (1,30)	930 (0,95)
	2100 Arm	1860 (1,90)	1860 (1,90)	1860 (1,90)	3920 (4,00)	2990 (3,05)	2160 (2,20)	2750 (2,80)	1910 (1,95)	1420 (1,45)	1620 (1,65)	1130 (1,15)	830 (0,85)
-3m	1750 Arm	2400 (2,45)	2400 (2,45)	2400 (2,45)	1810 (1,85)	1810 (1,85)	1810 (1,85)	1810 (1,85)	1810 (1,85)	1420 (1,45)	1620 (1,65)	1130 (1,15)	830 (0,85)
	2100 Arm	4950 (5,05)	4950 (5,05)	4950 (5,05)	2350 (2,40)	2350 (2,40)	2210 (2,25)	1570 (1,60)	1570 (1,60)	1470 (1,50)			

*Without extra counter weight

Lift Point Height	daN (ton)												
	Lifting point radius (Min)			Lifting point radius (3m)			Lifting point radius (4m)			Lifting point radius (Max)			
	Over-front		Over-side	Over-front		Over-side	Over-front		Over-side	Over-front		Over-side	
5m	1750 Arm						1620 (1,65)	1620 (1,65)	1620 (1,65)				
	2100 Arm						1420 (1,45)	1420 (1,45)	1420 (1,45)				
3m	1750 Arm	3480 (3,55)	3480 (3,55)	3480 (3,55)	2500 (2,55)	2500 (2,55)	2500 (2,55)	1960 (2,00)	1960 (2,00)	1570 (1,60)	1620 (1,65)	1130 (1,15)	830 (0,85)
	2100 Arm	2260 (2,30)	2260 (2,30)	2260 (2,30)	2110 (2,15)	2110 (2,15)	2110 (2,15)	1770 (1,80)	1770 (1,80)	1620 (1,65)	1520 (1,55)	1030 (1,05)	780 (0,80)
2m	1750 Arm	3780 (3,85)	3190 (3,25)	2300 (2,35)	3630 (3,70)	3090 (3,15)	2210 (2,25)	2350 (2,40)	1960 (2,00)	1470 (1,50)	1620 (1,65)	1030 (1,05)	780 (0,80)
	2100 Arm	3820 (3,90)	3730 (3,80)	2650 (2,70)	3240 (3,30)	3190 (3,25)	2300 (2,35)	2210 (2,25)	1960 (2,00)	1470 (1,50)	1520 (1,55)	980 (1,00)	740 (0,75)
1m	1750 Arm	2940 (3,00)	2890 (2,95)	2060 (2,10)	3090 (3,15)	2890 (2,95)	2060 (2,10)	2700 (2,75)	1860 (1,90)	1370 (1,35)	1670 (1,70)	1030 (1,05)	740 (0,75)
	2100 Arm	2750 (2,80)	2750 (2,80)	2300 (2,35)	4020 (4,10)	2890 (2,95)	2060 (2,10)	2600 (2,65)	1860 (1,90)	1370 (1,35)	1570 (1,60)	930 (0,95)	690 (0,70)
0m	1750 Arm	2300 (2,35)	2300 (2,35)	2300 (2,35)	4120 (4,20)	2790 (2,85)	2010 (2,05)	2790 (2,85)	1770 (1,80)	1320 (1,35)	1720 (1,75)	1030 (1,05)	780 (0,80)
	2100 Arm	1910 (1,95)	1910 (1,95)	1910 (1,95)	4170 (4,25)	2790 (2,85)	1960 (2,00)	2790 (2,85)	1770 (1,80)	1320 (1,35)	1570 (1,60)	930 (0,95)	690 (0,70)
-1m	1750 Arm	3290 (3,35)	3290 (3,35)	3290 (3,35)	3780 (3,85)	2790 (2,85)	1960 (2,00)	2700 (2,75)	1770 (1,80)	1270 (1,30)	1720 (1,75)	1130 (1,15)	830 (0,85)
	2100 Arm	1860 (1,90)	1860 (1,90)	1860 (1,90)	3920 (4,00)	2790 (2,85)	1960 (2,00)	2750 (2,80)	1770 (1,80)	1270 (1,30)	1620 (1,65)	1030 (1,05)	780 (0,80)
-3m	1750 Arm	2400 (2,45)	2400 (2,45)	2400 (2,45)	1810 (1,85)	1810 (1,85)	1810 (1,85)	1810 (1,85)	1810 (1,85)	1420 (1,45)	1620 (1,65)	1030 (1,05)	780 (0,80)
	2100 Arm	4950 (5,05)	4950 (5,05)	4950 (5,05)	2350 (2,40)	2350 (2,40)	2010 (2,05)	1570 (1,60)	1570 (1,60)	1320 (1,35)			



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

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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