

Kubota

KUBOTA EXCAVATOR

KX080-3



Kubota, the world's leading manufacturer of mini-excavators, brings you the KX080-3. It's the 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 maximise the strength of digging force and minimise 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.



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.



Compact machine width

The KX080-3's narrow 2200 mm width makes it ideal for working in close conditions, and much easier to transport between job sites.

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 the 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.

ALL NEW KUBOTA EXCAVATOR

KX080-3

Auto idling system

Kubota's 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 like tilt buckets, brush cutters and hydraulic hammers—you can reduce or increase the flow to get just the right amount of control.

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



The unique Kubota Intelligent Control System gives you precise control of 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 the 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 travelling.



Tank electric refuelling pump

The KX080-3's new, standard refuelling 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-equipped 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.

The KX080-3 2-Piece Boom version delivers a wide working range, smooth operation, and the versatility you need for tough jobs of all sizes.

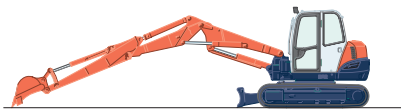
Dynamic working range

The 2-piece boom offers a versatile working range so you can reach farther, deeper, closer and anywhere in between.

Expanded working range

The versatile 2-piece boom offers a long reach and close retraction to make levelling large areas more efficient and productive. Plus, it's easy to dig close to the machine, eliminating the need for constant repositioning. It's particularly effective when working in narrow spaces.

■ Extended reach



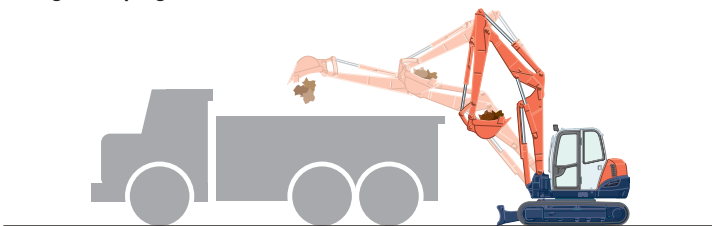
■ Close digging capability



Impressive dumping range

The 2-piece boom enables you to dump farther and higher, and offers a high bucket bottom position, making it smooth and easy to dump onto lorries without repositioning the excavator.

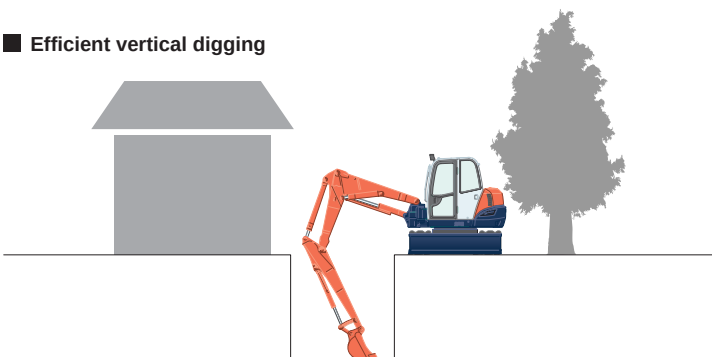
■ High dumping reach



Efficiency in narrow spaces

When space is restricted, the 2-piece boom manoeuvres easily to simplify vertical digging and efficiently make deep walls at 90° angles. And, it offers a compact front swivel radius to make turning and lifting operations in tight spaces even easier.

■ Efficient vertical digging



2-PIECE BOOM

V E R S I O N

Easy boom control

The user-friendly design and location of the 2-piece boom pedal makes operation extremely simple. Located to the left of the driving pedals, the operator simply needs to flip the footpad, and depress the right side of the pedal to extend the boom, or the left side to retract it. This feature greatly simplifies the footwork necessary to smoothly operate the boom.



Depress the pedal on the right or left side to extend or retract the boom.

Smooth simultaneous operation

Kubota's 2-piece boom offers reliably smooth and fast performance. Its innovative hydraulic mechanism enables the operator to easily run the arm, boom, bucket, and swivel simultaneously, boosting work efficiency and increasing productivity.

Versatility

Unlike competitor models, the 2-piece boom version features a second auxiliary circuit (SP2) as standard equipment, making it easy to use a wide variety of attachments. It also adapts the adjustable maximum oil flow rate system for the first auxiliary circuit (SP1), which can be controlled with the simple push of a switch. Whatever the job, the KX080-3 can complete it efficiently and effectively.



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 the 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

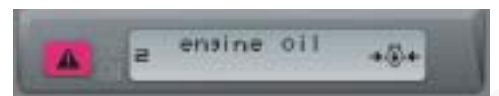
Kubota's standard, adjustable suspension seat reduces strain and improves comfort for the operator.

Air conditioning

The KX080-3 features an air conditioner 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 refuelling.



Standard Equipment

Engine/Fuel system

- Double-element air filter
- Electric fuel pump
- Auto idling system
- Tank electric refuelling 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 Object 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 aerial
- 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)

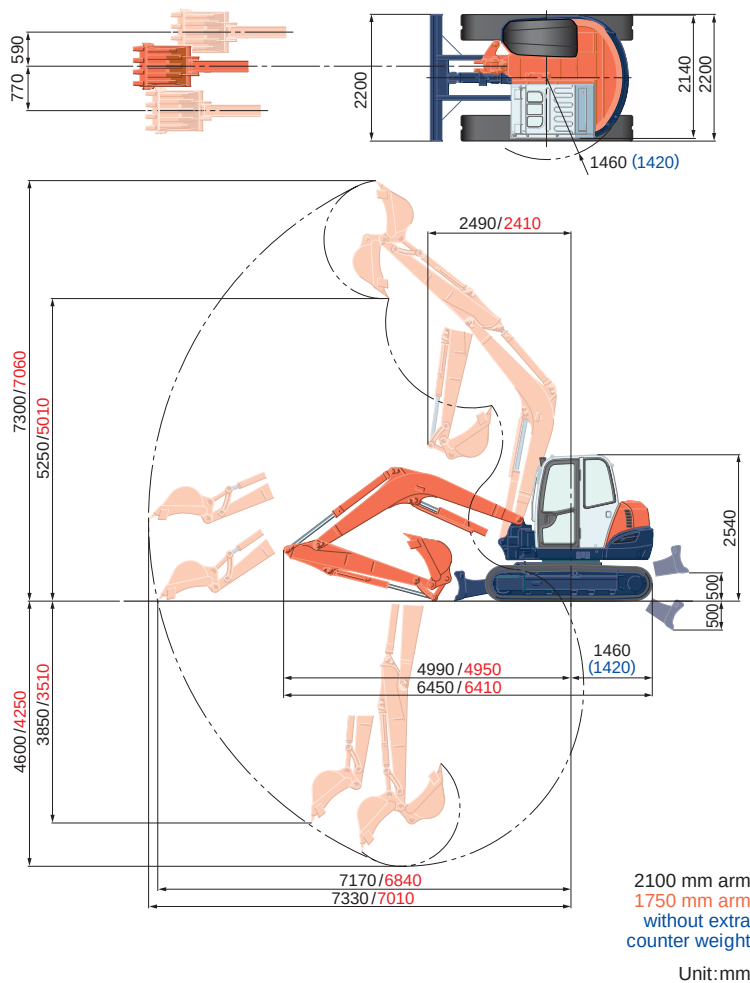


SPECIFICATIONS

*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 (Economic, 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)
		Gear type	
	Flow rate		ℓ/min 66.6
	Hydraulic pressure		MPa (kgf/cm ²) 20.6 (210)
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



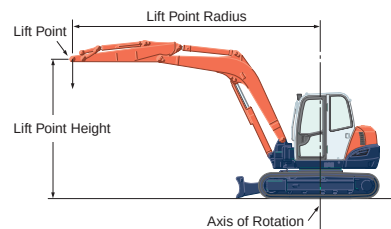
LIFTING CAPACITY

*With extra counter weight

Lift Point Height	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
	Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up	
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)
	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)
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)
	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)
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)
	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)
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)
	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)
-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)
	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)
-3m	1750 Arm	2400 (2,45)	2400 (2,45)	2400 (2,45)	1810 (1,85)	1810 (1,85)	1810 (1,85)					
	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	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
	Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up	
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)
	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)
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)
	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)
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)
	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)
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)
	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)
-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)
	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)
-3m	1750 Arm	2400 (2,45)	2400 (2,45)	2400 (2,45)	1810 (1,85)	1810 (1,85)	1810 (1,85)					
	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.

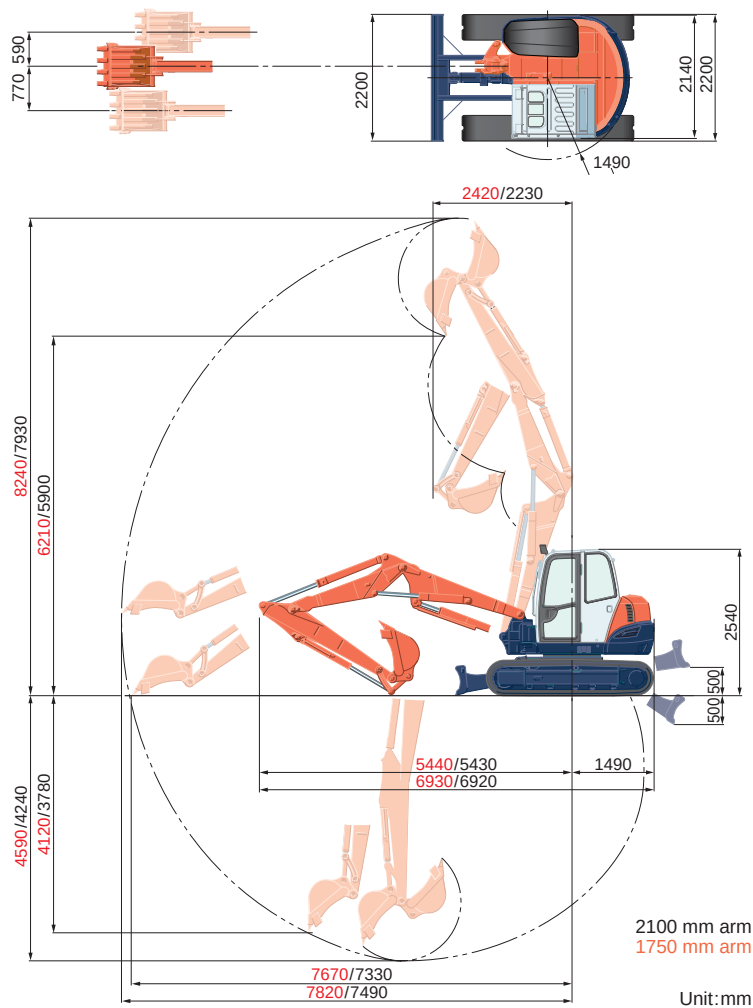
Please note:
* The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.
* The excavator bucket, hook, sling and other lifting accessories are not included on this table.

SPECIFICATIONS

*with rubber shoe, JPN bucket and 2100 mm arm

Machine weight (w/o extra counter weight)		kg	8700
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
	Hydraulic pressure	MPa (kgf/cm ²)	20.6 (210)
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)			1990/2310
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)	37.8 (0.386)
Ground clearance		mm	390

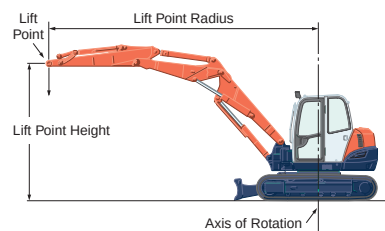
WORKING RANGE



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
		Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up	
5m	1750 Arm	2400 (2,45)	2400 (2,45)	2400 (2,45)	2260 (2,30)	2260 (2,30)	2260 (2,30)	1910 (1,95)	1910 (1,95)	1860 (1,90)			
	2100 Arm							1770 (1,80)	1770 (1,80)	1770 (1,80)			
3m	1750 Arm							2300 (2,35)	2260 (2,30)	1720 (1,75)	1520 (1,55)	1080 (1,10)	830 (0,85)
	2100 Arm	3240 (3,30)	3240 (3,30)	3040 (3,10)	2990 (3,05)	2990 (3,05)	2750 (2,80)	2160 (2,20)	2160 (2,20)	1720 (1,75)	1420 (1,45)	980 (1,00)	740 (0,75)
2m	1750 Arm							2600 (2,65)	2110 (2,15)	1570 (1,60)	1470 (1,50)	1030 (1,05)	740 (0,75)
	2100 Arm							2500 (2,55)	2160 (2,20)	1570 (1,60)	1370 (1,40)	930 (0,95)	690 (0,70)
1m	1750 Arm							2700 (2,75)	2010 (2,05)	1470 (1,50)	1370 (1,40)	980 (1,00)	740 (0,75)
	2100 Arm							2650 (2,70)	2010 (2,05)	1470 (1,50)	1320 (1,35)	930 (0,95)	690 (0,70)
0m	1750 Arm							2550 (2,60)	1960 (2,00)	1420 (1,45)	1320 (1,35)	1030 (1,05)	740 (0,75)
	2100 Arm	2160 (2,20)	2160 (2,20)	2160 (2,20)	2300 (2,35)	2300 (2,35)	2110 (2,15)	2600 (2,65)	1910 (1,95)	1370 (1,40)	1230 (1,25)	930 (0,95)	690 (0,70)
-1m	1750 Arm	2060 (2,10)	2060 (2,10)	2060 (2,10)	2750 (2,80)	2750 (2,80)	2160 (2,20)	2210 (2,25)	1960 (2,00)	1420 (1,45)			
	2100 Arm	2010 (2,05)	2010 (2,05)	2010 (2,05)	3090 (3,15)	3040 (3,10)	2110 (2,15)	2350 (2,40)	1910 (1,95)	1370 (1,40)	1180 (1,20)	1030 (1,05)	740 (0,75)
-3m	1750 Arm							690 (0,70)	690 (0,70)	690 (0,70)			
	2100 Arm				1320 (1,35)	1320 (1,35)	1320 (1,35)	1080 (1,10)	1080 (1,10)	1080 (1,10)			



* 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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