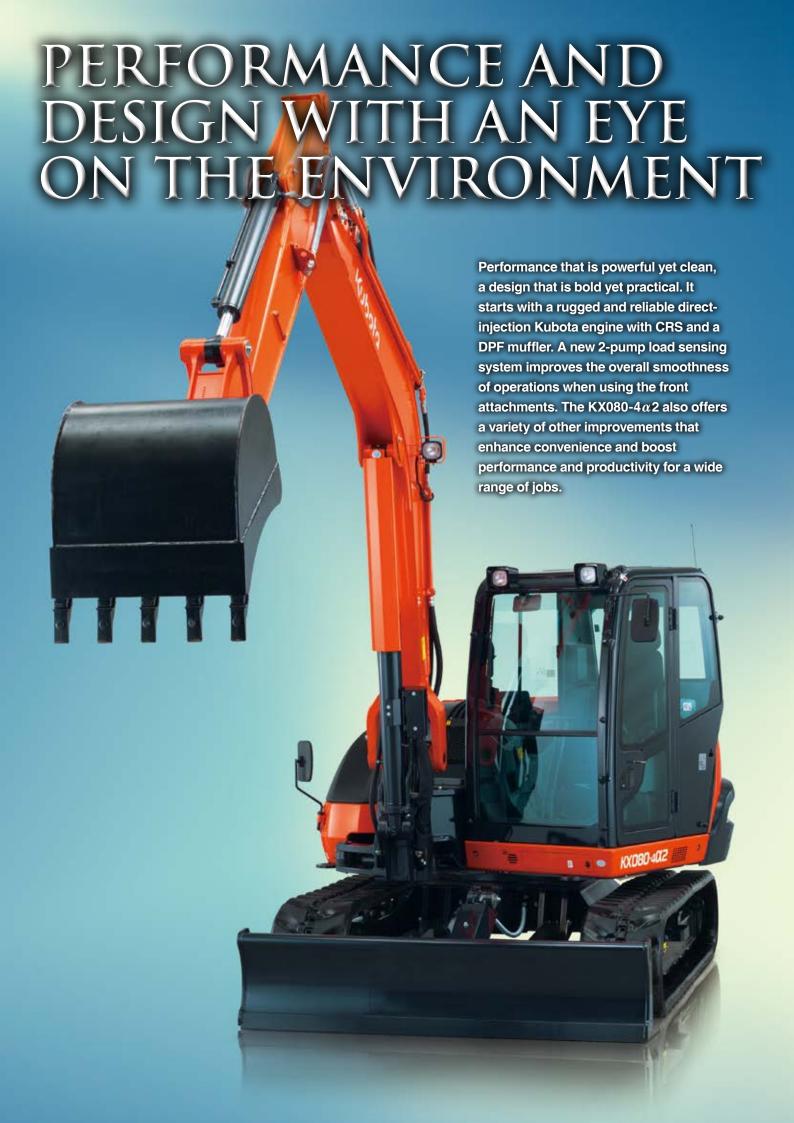
Machine weight: 8,350 kg

For Earth, For Life

KXDBD-402





2-pump 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. A new 2-pump L/S system improves the overall smoothness of operations when moving the front attachments simultaneously, moving front attachments while travelling, and operating special attachments that are independently powered – such as a brush cutter.

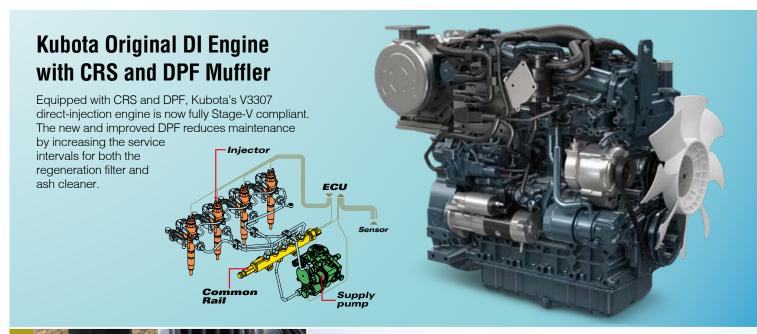
Auto Idling System

Kubota's Auto Idling System is fitted as standard. When the 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.

Dozer Blade with Float Function

You don't need to adjust the dozer height to make a clean ground surface after backfilling, just travel backward along the covered ditch with the dozer in the float position. Ground finishing work is now fast and easy!







1. Adjustable Maximum Oil Flow on Auxiliary Circuit (AUX1/AUX2)

Two proportional control auxiliary circuits (AUX1/AUX2) come as standard on the KX080-4 $\alpha 2$. The convenient switch on the left and right lever allows simple and accurate yet minute operation for a wide variety of attachments. The maximum oil flow settings of both circuits are conveniently adjustable from the drivers seat via the digital display panel – no additional tools or complex manual adjusting procedures are necessary. You can programme up to five oil flow rates corresponding to specific attachments into the memory of the digital display panel. Programmed settings can be quickly retrieved for the required job. The system comes with nine pre-installed attachment icons.

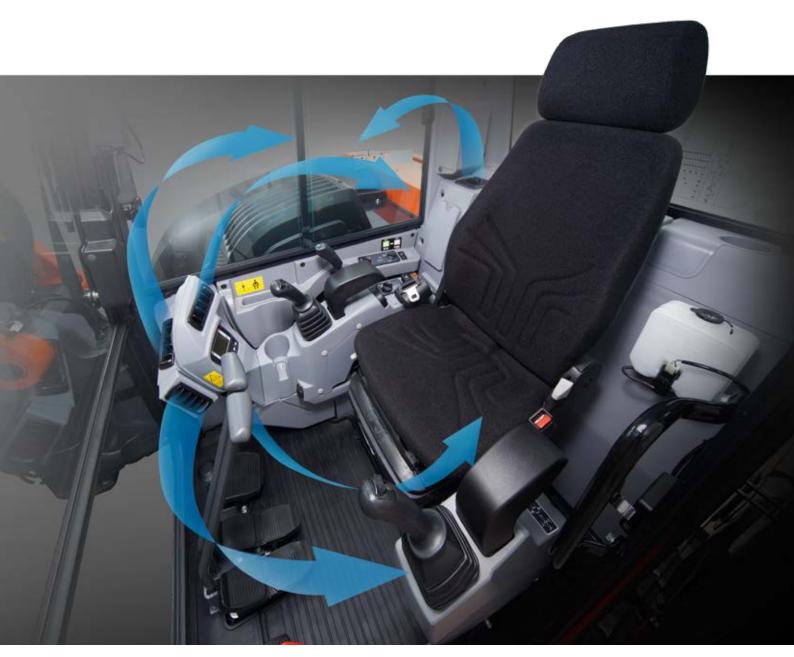
Auto Shift

The KX080-4 α 2 is fitted with an advanced two-speed auto-shift feature, which automatically adjusts speed and traction force depending on load size and terrain to enhance travel performance and ensure smooth and easy operation.

DELUXE INTERIOR

Spacious & Comfortable

On the KX080-4 α 2, your comfort truly comes first. The luxurious cabin features a wide entrance, generous legroom and a deluxe seat. The Roll-over Protective Structure (ROPS, ISO 12117-2) and Operator Protective Guard (OPG, Top Guard Level I, ISO 10262 as standard, level II as an option with Top Guard) maximise safety. Operation is greatly enhanced with more easy-to-use features than ever before.



Air Conditioner

A powerful cooling/heating system and six vents provide optimum comfort on the coldest winter and hottest summer days.



Deluxe Suspension Seat

Designed and engineered with comfort in mind, Kubota's high-back suspension seat reduces strain and minimises operator fatigue. It reclines to accommodate your individual posture, and offers weight compensation, firm wrist support and retractable seat belt.

1. Digital Display Panel

Informative, interactive and functional, Kubota's Intelligent Control System LCD panel accurately displays timely diagnostic readings and routine maintenance alerts. Information such as engine RPM, engine temperature, fuel level, machine hours and a 90 day usage register with recorded machine hours for each day the machine is worked are also displayed.

2. Easy-open Front Window

Unlike many excavator windows, the front window of the KX080-4 α 2 opens with ease. Just flip the latches on both sides of the window and slide it up. A gas-assist mechanism makes this action almost effortless.



3. Front Window Guard / Top Guard (Level II as optional)

Operators who require additional protection from flying chips and debris when using some attachments or when antivandalism is important. Kubota provides the window guard mounting points around the front window as a standard feature.

LH Control Lever Console

Raise the safety control lever and the console moves up with it, providing more room for entry and exit. To prevent unexpected machine movement during entry or exit, all control levers are then disabled until the console is back in place.



ROPS/OPG (Top Guard Level I, ISO 10262) Cabin as standard

Kubota has adopted a cabin that is certified as a Roll-over Protection Structure (ROPS, ISO 12117-2) and an Operator Protective Guard (OPG Top Guard Level I, ISO 10262) as standard. OPG front guard, Top Guard Level II is optional.

Advanced Visibility Mirrors

The big rear-view mirror offers a wide range of visibility. Together with the two side-view mirrors, you get a better view of your worksite, as well as your immediate surroundings.



Cup Holder

With the convenience of a bigger cup holder, you can quench your thirst and work longer without leaving the cab. Or store your cell phone, with a 12 V charging port located conveniently close by.

MAINTENANCE AND SAFETY

Dependability & Protection

Kubota goes the extra mile to simplify inspections and maintenance for the KX080-4 α 2. Vital components, battery, fluid tanks and filters are now easier to access than ever. And the Automatic Regeneration System keeps the DPF muffler clean to keep the KX080-4 α 2 going for years ahead.



Triple Opening Bonnet

All three of the excavator's access panels can open at once. This allows you to easily inspect and view the centrally located components of the KX080-4 α 2. You can easily access the hydraulic components under the centre bonnet, or the battery, oil filter and toolbox and grease gun space under the right bonnet. Maintaining your excavator has never been so easy.

- A. Dual Element Air Cleaner E. Starter Motor
- **B.** DPF Muffler
- C. Fuel Filter
- D. Alternator
- F. Control Valves
- G. Hydraulic Return
 - Oil Filter
- H. Battery
- I. Large Water Separator
- J. Grease Gun Space

Automatic Regeneration System

Kubota's original automatic regeneration system automatically burns accumulated particulate matter (soot) in the DPF muffler to keep the muffler clean for longer operation. For safety reasons, automatic regeneration can be turned off with the inhibit switch when the excavator is operating in areas that are prone to fires. The current DPF regeneration

condition is displayed on the digital display panel so you can focus on your job.

1. 2. Easy Maintenance

Parts that require routine maintenance and inspection such as the engine oil level and V-belt are easy to access. In addition, all filters are located near the bonnet opening to simplify their replacement.

A. Engine Oil Dipstick
B. Engine Fan Belt

C. Oil Gauge

D. Radiator Cooler Tank

3. Tank Electric Refuelling Pump

The KX080-4 α 2's standard diesel refueling pump includes an auto-stop function that minimizes spillage and increases safety. Filing from empty takes approximately three minutes.

4. Safety (Anti-drop) Valve on the Boom

The KX080-4 α 2 is fitted with a boom-lowering control device as standard.

5. Double Structure Stainless Exhaust Gas Pipe

The double structure exhaust gas pipe helps to reduce the increases in exhaust gas temperatures caused by the DPF automatic regeneration process to minimise the risk of danger to people nearby and the environment. Furthermore, to prevent rust it is now made of stainless steel.

Variable Speed Fan

The variable speed fan drive provides the right amount of cooling efficiency by regulating the engine fan speed according to the ambient temperature after the air passes through the radiator. The benefits are reduced fan noise and fuel savings through effective use of engine output.











Two-Piece Hose Design

Kubota's innovative two-piece hose design for the dozer blade reduces hose replacement time by nearly 60% compared to one piece hose. This design virtually eliminates the need to enter the machine for maintenance.

Tight Tail Swing

The KX080-4 α 2 is designed with a short 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 restricted work sites.

Compact Machine Width

The KX080-4 α 2's narrow 2200 mm width makes it ideal for working in close conditions, and much easier to transport between job sites.

2-PIECE BOOM VERSION



2-piece Boom's Dynamic Working Range

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

A. 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.

B. 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 into Lorries without repositioning the excavator.

C. 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.

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.



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.

Kubota Original Anti-theft System

Your KX080- $4\alpha2$ is protected by Kubota's industry-leading antitheft system. Only programmed keys will enable the engine to start up. Attempting to start with an un-programmed key will activate the alarm. Newly enhanced features include an alert to remind the operator to extract the key after operation, and an LED to alert potential thieves that the system is activated.





The red programming key programs the individual keys. The individual black keys start the engine.

Standard Equipment

Engine/Fuel system

- Double-element air filter
- · Automatic fuel bleed system
- Auto idling system
- Tank electric refuelling pump
- Variable speed fan
- Water separator

Undercarriage

- (450 mm) rubber track
- 1 × upper track roller (double flange type)
- •5 single-flange track rollers on each track
- 2-speed travel switch on dozer lever

Hydraulic system

- Pressure accumulator
- Hydraulic pressure checking ports
- Third line hydraulic return with lever
- •2-pump load sensing system
- Adjustable maximum oil flow on auxiliary hydraulic circuits (AUX1/AUX2)
- Auxiliary switch (AUX1) on right control lever (proportional)
- Auxiliary switch (AUX2) on left control lever (proportional)
- 2-speed travel with auto-shift

Safety system

- LH control lever 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 (ISO 8643)

Working equipment

- Dozer blade with float function
- Auxiliary hydraulic circuit piping to the arm end
- •2 working lights on cabin and 1 light on the boom
- •2100 mm arm
- Bracket and harness for 1st and 2nd beacon light

Cabin

- OPG (Operator Protective Guard, Top Guard Level I, ISO 10262)
- ROPS (Roll-over Protective Structure, ISO 12117-2)
- · Weight-adjustable full suspension seat
- Retractable seatbelt
- Hydraulic pilot control levers with adjustable wrist rests
- Travel levers with removable foot pedals
- Air conditioning
- · Cabin heater for defrosting & demisting
- · Digital display panel
- Front window power-assisted with gas damper
- •12 V power source
- Front window guard mounting points
- •2 speakers and radio aerial
- Location for radio
- Cup holder
- · Emergency exit hammer

Others

- Tie down bracket on swivel frame
- Tool box

Optional Equipment

Undercarriage

- 450 mm steel track (+ 50 kg)
- •600 mm steel track (+ 100 kg)

Working equipment

• 1750 mm arm (- 22 kg)

Safety system

- · Anti-drop valve unit on the dozer
- Anti-drop valve unit on the arm

Others

- Special paint upon request
- OPG (Operator Protective Guard, Front Guard & Top Guard Level II, ISO 10262)
- Beacon light
- Additional weight for standard boom (+ 200 kg)
- Additional weight for 2-piece boom (+ 260 kg)



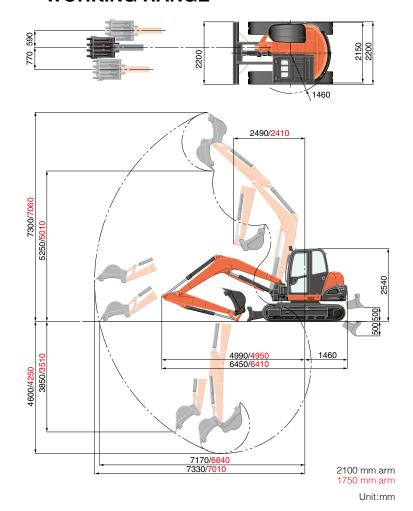
SPECIFICATIONS

er shoe. JPN bucket and 2100 mm arm

Machine weight*¹ kg 8350 Operating weight*² kg 8425 Bucket With side teeth m 0.25/0.21 Bucket width With side teeth mm 800 width With side teeth mm 700 Engine Model V3307-CR-TE5-BH-1 Water-cooled, diesel engine E-CDIS (with CRS and DPF) 63.2/2000 Number of cylinders 4 4 Bore × Stroke mm 94 × 120 Displacement cc 3331 Swivelling speed rpm 9.8 Rubber shoe width mm 450 Tumbler distance mm 2300 Dozer size (width × height) mm 2200 × 500 Hydraulic pumps P1,P2 Variable displacement pump Hydraulic pressure MPa (kgf/cm²) 27.4 (280) Max. digging Arm kN (kgf) 38.1 (3880) force Bucket kN (kgf) 38.1 (3880) Morce Bucket kN (kgf) 65.2 (66				*\	with rubber shoe, J	JPN bucket and 2100 mm arm
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Model	Bucket		With side	e teeth	mm	800
Type	width		Without	side teeth	mm	700
Engine			Model			V3307-CR-TE5-BH-1
Output ISO9249 NET			Туре			
Number of cylinders	Engino		Output IS	C0240 NET	PS/rpm	63.2/2000
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Ground contact pressure kPa (kgf/cm²) 36.6 (0.373)	Max. tra	velling	Low		km/h	2.7
Ground clearance	speed		High		km/h	4.8
Noise level LpA / LwA (2000/14/EC) dB (A) 75 / 96	Ground	contac	pressure)	kPa (kgf/cm²)	36.6 (0.373)
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Vibration*3 Whole body Digging / Levelling m/s² RMS <0.5 / <0.5		Hand a	rm system	Digging / Lev	elling m/s² RMS	<2.5 / <2.5
Whole body Digging / Levelling m/s² RMS <0.5 / <0.5	Vibration*3		49-2:2001)	Driving / Idlin	g m/s² RMS	4.40 / <2.5
(ISO 2631-1:1997) Driving / Idling m/s² RMS 0.879 / <0.5	VIDIALION		body	Digging / Lev	elling m/s² RMS	<0.5 / <0.5
		(ISO 26	31-1:1997)	Driving / Idlin	g m/s² RMS	0.879 / <0.5

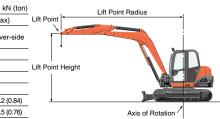


WORKING RANGE



LIFTING CAPACITY

	Lifting point radius (Min)		(Min)	Lifting point radius (4m)			Lifting point radius (5m)			Lifting point radius (Max)			
L	ift Point Height	Over-front		Over-side	Over-front		Over-side	Over	/er-front		Over	Over-front	
	. roigin	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side
5m	1750 Arm				16.7 (1.70)	16.7 (1.70)	16.2 (1.65)						
DIII	2100 Arm				14.2 (1.45)	14.2 (1.45)	14.2 (1.45)						
3m	1750 Arm				20.1 (2.05)	20.1 (2.05)	15.2 (1.55)	17.2 (1.75)	13.7 (1.40)	10.8 (1.10)			
3111	2100 Arm				18.1 (1.85)	18.1 (1.85)	15.7 (1.60)	16.2 (1.65)	14.2 (1.45)	10.8 (1.10)			
1.5m	1750 Arm				26.0 (2.65)	18.6 (1.90)	13.7 (1.40)	20.1 (2.05)	18.6 (1.90)	13.7 (1.40)	17.0 (1.74)	10.7 (1.09)	8.2 (0.84)
1.3111	2100 Arm				24.5 (2.50)	18.6 (1.90)	14.2 (1.45)	19.1 (1.95)	13.2 (1.35)	10.3 (1.05)	15.8 (1.61)	9.3 (0.95)	7.5 (0.76)
1m	1750 Arm				27.4 (2.80)	18.1 (1.85)	13.7 (1.40)	20.6 (2.10)	12.7 (1.30)	9.8 (1.00)			
1111	2100 Arm				26.0 (2.65)	18.1 (1.85)	13.7 (1.40)	20.1 (2.05)	13.2 (1.35)	9.8 (1.00)			
0m	1750 Arm				28.4 (2.90)	17.6 (1.80)	13.2 (1.35)	21.1 (2.15)	12.7 (1.30)	9.3 (0.95)			
UIII	2100 Arm				27.9 (2.85)	17.6 (1.80)	13.2 (1.35)	21.1 (2.15)	12.7 (1.30)	9.3 (0.95)			
-1m	1750 Arm	37.2 (3.80)	37.2 (3.80)	37.2 (3.80)	27.0 (2.75)	17.2 (1.75)	12.7 (1.30)	20.1 (2.05)	12.7 (1.30)	9.3 (0.95)			
-1111	2100 Arm	28.4 (2.90)	28.4 (2.90)	28.4 (2.90)	27.4 (2.80)	17.2 (1.75)	12.7 (1.30)	20.6 (2.10)	12.3 (1.25)	9.3 (0.95)			
200	1750 Arm												
-3m	2100 Arm				15.7 (1.60)	15.7 (1.60)	13.2 (1.35)						
Dlo	see note:												



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

^{*}¹ With 176.6 kg standard bucket and fully served *² With 75 kg operator, 176.6 kg standard bucket and fully served *³ These values are measured under specific conditions at maximum engine speed and can deviate, depending on the operating status.

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.

2-PIECE BOOM VERSION

SPECIFICATIONS

Machine	weight	*1		kg	8990			
Operatir	ig weigh	nt*2		kg	9065			
	0 0	y, std. SA	E/CECE	m³	0.25/0.21			
Bucket		With side	e teeth	mm	800			
width		Without	side teeth	mm	700			
		Model			V3307-CR-TE5-BH-1			
					Water-cooled, diesel engine E-CDIS (with CRS and DPF			
			00040145	PS/rpm	63.2/2000			
Engine		Output IS	O9249 NET	kW/rpm	46.5/2000			
		Number	of cylinders		4			
		Bore × S	troke	mm	94 × 120			
		Displace	ment	CC	3331			
Swivelli	ng spee	ed		rpm	9.8			
Rubber	shoe w	idth		mm	450			
Tumble	r distan	ce		mm	2300			
Dozer s	ize (wic	lth × heigh	nt)	mm	2200 × 500			
		P1,P2			Variable displacement pump			
Hydraulic pumps		Flow rate	9	ℓ /min	84.6×2			
ратро		Hydraulic	pressure	MPa (kgf/cm²)	27.4 (280)			
Max. did	Max. digging			kN (kgf)	38.1 (3880)			
force	55 5	Bucket		kN (kgf)	65.2 (6650)			
Boom s	wing ar	gle (left/ri	ght)	deg	67/60			
Minimur	n front s	swivel radi	us with boom	swing (left/right)	1990/2310			
Auxiliar	,	Max. flov	v rate	ℓ /min	100			
circuit (A		Max. hyd	raulic pressure	MPa (kgf/cm²)	20.6 (210)			
Auxiliary	,	Max. flov	v rate	ℓ /min	55.8			
circuit (A		Max. hyd	raulic pressure	MPa (kgf/cm²)	20.6 (210)			
Hydraul	ic reser	voir		l	75			
Fuel tar	ık capa	city		l	115			
Max. tra	vellina	Low		km/h	2.7			
speed		High		km/h	4.8			
Ground	contac	t pressure		kPa (kgf/cm²)	39.4 (0.402)			
Ground	clearar	nce		mm	356			
Noise le	vel	LpA / Lw	A (2000/14/EC)) dB (A)	75 / 96			
	Hand a	rm system		elling m/s² RMS	<2.5 / <2.5			
(ISO 53		49-2:2001)	Driving / Idling		4.40 / <2.5			
Vibration*3			Dissipar / L	alling m/s² DMC	-0.E./ -0.E			

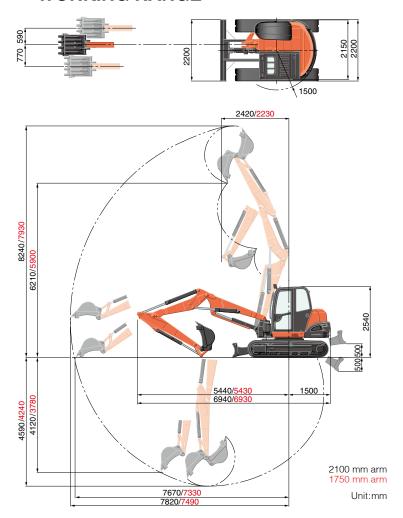
(ISO 2631-1:1997) Driving / Idling

Whole body

Digging / Levelling m/s² RMS

m/s² RMS

WORKING RANGE



LIFTING CAPACITY

													kN (ton)
		Lifting	point radius	(Min)	Lifting	point radius	s (4m)	Lifting	point radiu:	s (5m)	Lifting	point radius	(Max)
L	ift Point Height	Over	-front	0	Over	-front	0	Over	-front	0	Over	-front	0
	ricigiti	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side	Blade Down	Blade Up	Over-side
	1750 Arm	23.0 (2.35)	23.0 (2.35)	23.0 (2.35)	19.6 (2.00)	19.6 (2.00)	17.2 (1.75)	17.6 (1.80)	15.2 (1.55)	11.8 (1.20)			
5m	2100 Arm				18.1 (1.85)	18.1 (1.85)	17.6 (1.80)	16.7 (1.70)	15.7 (1.60)	12.3 (1.25)			
3m	1750 Arm				23.5 (2.40)	21.1 (2.15)	15.7 (1.60)	18.6 (1.90)	14.7 (1.50)	11.3 (1.15)			
3111	2100 Arm				22.1 (2.25)	21.6 (2.20)	16.2 (1.65)	18.1 (1.85)	14.7 (1.50)	11.3 (1.15)			
1.5m	1750 Arm				27.4 (2.80)	19.1 (1.95)	14.2 (1.45)	20.1 (2.05)	13.7 (1.40)	10.3 (1.05)	14.7 (1.50)	9.6 (0.98)	7.3 (0.74)
1110.11	2100 Arm				26.5 (2.70)	19.1 (1.95)	14.2 (1.45)	20.1 (2.05)	13.7 (1.40)	10.3 (1.05)	13.8 (1.41)	9.5 (0.97)	6.9 (0.71)
1m	1750 Arm				27.4 (2.80)	18.6 (1.90)	13.7 (1.40)	20.6 (2.10)	13.7 (1.40)	10.3 (1.05)			
IIII	2100 Arm				27.0 (2.75)	18.6 (1.90)	13.7 (1.40)	20.1 (2.05)	13.7 (1.40)	10.3 (1.05)			
0m	1750 Arm				26.0 (2.65)	18.1 (1.85)	13.2 (1.35)	19.6 (2.00)	13.2 (1.35)	9.8 (1.00)			
OIII	2100 Arm				26.5 (2.70)	18.1 (1.85)	13.2 (1.35)	20.1 (2.05)	13.2 (1.35)	9.3 (0.95)			
1	1750 Arm	27.9 (2.85)	27.9 (2.85)	20.6 (2.10)	22.5 (2.30)	18.1 (1.85)	13.2 (1.35)	17.2 (1.75)	13.2 (1.35)	9.8 (1.00)			
-1m	2100 Arm	22.5 (2.30)	22.5 (2.30)	22.5 (2.30)	24.0 (2.45)	18.1 (1.85)	13.2 (1.35)	18.1 (1.85)	12.7 (1.30)	9.3 (0.95)			
-3m	1750 Arm				6.9 (0.70)	6.9 (0.70)	6.9 (0.70)						
-3111	2100 Arm				11.3 (1.15)	11.3 (1.15)	11.3 (1.15)			, and the second			

<0.5 / <0.5

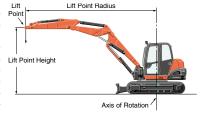
0.879 / < 0.5

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.

Air conditione	er gas contains	fluorinated	d greenhouse (gases
CAB model	Industrial designation	Quantity (kg)	CO ₂ equivalent (ton)	GWP
KX080-4α2	HFC-134a	0.98	1.41	1430



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

^{**} With 176.6 kg standard bucket and fully served

** With 75 kg operator, 176.6 kg standard bucket and fully served

** These values are measured under specific conditions at maximum engine speed and can deviate, depending on the operating status.



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