

# Kubota



## KUBOTA ZERO-TAIL SWING COMPACT EXCAVATOR

# U

## U45-3 SUPER SERIES

High performance and zero tail swing to get you in and out of the toughest and tightest digging jobs.



\*This information is sourced from overseas and may not necessarily apply locally. It is essential that you confirm specifications and other information with your local Kubota dealer.







# **More power, more versatility, and more operator comfort in a compact, high-performance excavator.**

Start with zero-tail swing. Add an advanced digital information panel, a load sensing hydraulic system, and an auto idling system. With its powerful, clean-running Kubota engine, you have the operational performance that makes short work of even the toughest digging and dozing jobs.



## Clean-running Kubota Engine

Complies with Interim Tier IV!

Powerful and dependable, the U45-3S's diesel engine delivers superior horsepower and performance. It offers low noise and vibration levels, exceptional fuel efficiency, and complies with the U.S. EPA's 2008 interim Tier IV emissions regulations.



## Zero-Tail Swing

With zero-tail swing, even the tightest spaces become efficient work places. Because the tail always stays within the width of the tracks, you can turn the house throughout its 360-degree turning radius without damage to the machine or surroundings. Zero-tail swing also ensures excellent balance and stability and faster operation, making the U45-3S ideal for work in congested urban areas.



## User-friendly operation

New operating levers require less effort and shorter movements, ensuring improved control and operator comfort. Auxiliary hydraulics controls are mounted on the right operating lever for simple operation of attachments. A 2-speed travel switch on the dozer lever permits quicker, more convenient travel speed changes. Adjustable wrist rests help reduce operator fatigue for increased job efficiency.







### **Strong bucket breakout force**

Strong breakout force keeps the U45-3S working efficiently even under the heaviest of loads. With the dedicated bucket and quick coupler, the bucket breakout force tops 4,393 kg, more than enough for even the toughest excavating jobs.

### **Load sensing hydraulic system**

With Kubota's advanced Load Sensing Hydraulic System, even the slightest lever movements produce smooth and simultaneous operation of the boom, arm, bucket, and house. Control valves automatically regulate and distribute the optimum amount of oil to each cylinder based on the weight of the load, resulting in perfectly matched speed, power, and cylinder timing.



### **Boom cylinder protection**

The reinforced v-shape guard protects the boom cylinder rod from damage caused by accidental contact with attachments, rocks, or loads.





## Auto idle system

Kubota's Auto Idle System improves safety, decreases noise, and reduces fuel consumption by approximately 10%. The engine automatically decelerates to idling speed four seconds after the control levers are returned to their neutral positions. When a control lever is subsequently moved, the engine speed automatically returns to its prior setting. A simple twist of the Dial Accelerator smoothly coordinates speed and tachometer settings.



## Adjustable maximum oil flow control for auxiliary port

This unique function lets you control the oil flow according to your needs or the attachment in use. It eliminates the hassle of using tools to change settings manually, so you don't have to leave the cabin. When using a tilt bucket, you can slow the flow to get just the right control to gently shape a swale. Alternatively, for a brush cutter, direct the oil flow to one side of the excavator arm. The system will even store your settings for the next time you need it, saving time and quickly regulating the flow requirements. Adjustable oil flow enhances performance and saves fuel.

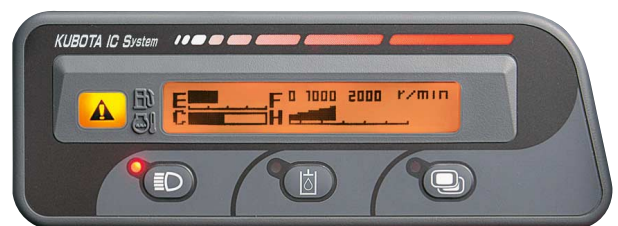


## Excellent lifting capacity and working range

A powerful and responsive front working group provides excellent lifting capacity for all your digging, lifting, and loading jobs. Even when working to the side, using hydraulic attachments, or lifting heavy objects, the U45-3S thanks to its innovative counter balancing technology, long tumbler distance, low center of gravity and Double Outer Flanged Lower Track Rollers. The U45-3S's large bucket capacity, excellent reach and digging depth, ensure that every digging job is done with maximum efficiency and speed.

## Digital panel

Informative, interactive, and functional, Kubota's Intelligent Control System provides timely diagnostic readings and routine maintenance alerts to help reduce downtime and repair fees. The large digital panel displays current working conditions, warning indicators, engine rpm and hour meter, fuel, temperature and oil levels. The panel not only lets you know when fuel is running low, but alerts you during refueling when the tank is nearly full.



Routine maintenance alert display



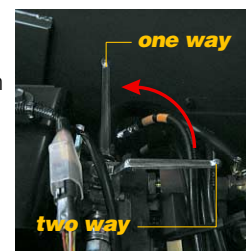
Low fuel display

## Fuel overflow prevention

The U45-3's fuel system warns you when the tank is nearly full. To begin refueling, turn the ignition key to the OFF position and press any of the buttons on the digital panel. The system will begin beeping. When the tank is nearly full, the interval between the beeps will become shorter.

## Third-line hydraulic return

When working with one-way hydraulic attachments, such as a breaker or brush cutter, the standard third-line hydraulic return system allows oil to flow directly back to the tank without running through the control valves. This contributes to less oil contamination, reduced back pressure, and greater oil flow efficiency.





**COMFORT/DURABILITY/MAINTENANCE/SAFETY**

### Controlled climate cab

No matter what the weather outside, the U45-3S's climate-controlled cab will keep you feeling fresh and comfortable, letting you work faster, better, and longer. If desired, filtered outside air can be introduced via the external air vent.



**NOISE LEVEL**  
at operator's ear **79** dB(A)

### Suspension seat

The deluxe, high back seat is fully adjustable, ensuring optimum comfort for operators of all sizes. Even the custom wrist rests are adjustable to help reduce arm movement and increase operator comfort.

### Two-pattern Selection System (TPSS)

No need for tools or to leave your seat—a quick flick of the switch is all it takes to change between ISO and SAE operating patterns.

### Wider foot area

More spacious than most excavators, the U45-3S's comfortable operating area helps reduce operator fatigue.

### Auxiliary hydraulic system

The U45-3S's auxiliary hydraulic system can accommodate a variety of attachments such as breakers and augers. Standard features include port pipes on the arm, bi-directional auxiliary hydraulic controls, and a control valve. The auxiliary hydraulic connections are located within easy reach and incorporate short hoses that are less likely to become tangled or damaged.

### Front pin bushings

Pin bushings are installed at all of the pivot points along the swing bracket, boom, arm, and bucket. Pin type bushings not only last longer, they are easier to replace when necessary.



### Well protected front attachment hoses

To protect the front hoses from accidental damage, they are routed through the swing bracket.



### Maintenance

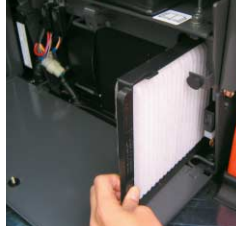
A wide-opening rear engine cover provides fast and easy access to daily maintenance items. The side cover provides access to the battery, radiator and oil cooler, hydraulic oil tank and the control valve. Two-piece hose connections for the dozer and boom cylinders simplify hose replacement and reduce downtime.





### Air conditioner filter cartridge

The air conditioner filter cartridge features a new frame which is easy to access and slides out for cleaning and maintenance.



### Safe, controlled starts

When the safety control lever is moved upward, the console moves with it, providing more room for entry and exit. To prevent unexpected machine movement during entry or exit, the pilot and travel controls are then disabled. This is the only time that the engine will crank over.

### Swivel negative brake

The swivel negative brake automatically locks the upper structure in its current position when the engine is stopped or the safety control lever is raised. Hence, the swivel transport lock pin is no longer required.

### Straight travel

For safer loading and off-loading, the U45-3S incorporates a Hydraulic Matching System that keeps the U45-3S traveling in a straight line while operating the boom and attachments.

### Accumulator

Replacing attachments is more efficient, thanks to the U45-3S's accumulator. Turning the key to the "on" position clears residual pressure in the auxiliary hydraulic port, preventing oil from spurting out when attachments are removed. Should the engine accidentally shut off while the front attachment is raised, simply turn the key to the "on" position. The attachment can now be safely lowered.



## U45-3S OPTIONS

### ● Buckets

### ● Canopy lights

### ● Quick coupler



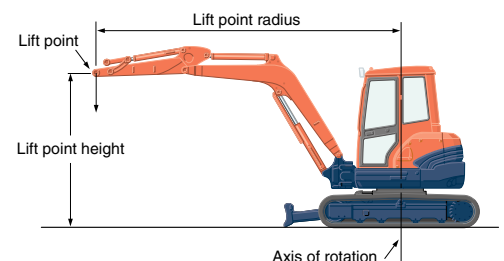
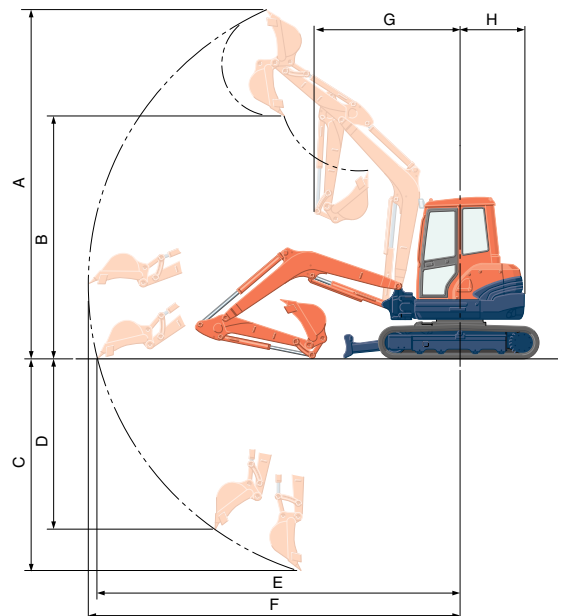
## WORKING RANGE

Model		U45-3S		
A	Max. digging height	mm	5430	
B	Max. dumping height	mm	3810	
C	Max. digging depth	mm	3350	
D	Max. vertical digging depth	mm	2700	
E	Max. digging radius at ground	mm	5615	
F	Max. digging radius	mm	5755	
G	Min. turning radius	W/o swing	mm	2310
		With swing	mm	1825
H	Min. tail turning radius	mm	990	

## LIFTING CAPACITY

LIFT POINT HEIGHT (m)	LIFTING CAPACITY OVER THE FRONT, BLADE DOWN unit=ton				LIFTING CAPACITY OVER THE SIDE unit=ton		
	LIFT POINT RADIUS (m)			LIFT POINT RADIUS (m)			
	2.5	3.5	MAX	2.5	3.5	MAX	
GL	3	-	1.35	1.05	-	0.84	0.58
	2	-	1.47	1.09	-	0.82	0.57
	1	-	1.56	1.12	-	0.80	0.56
GL	0	2.34	1.60	1.13	1.28	0.78	0.55

Machine with ROPS canopy and rubber crawler, without bucket

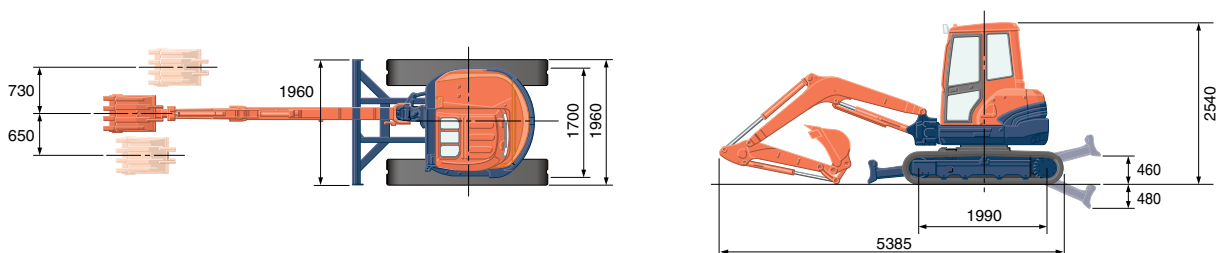


## SPECIFICATIONS

Model		U45-3S		
Type of ROPS / FOPS		Canopy / Cab		
Type of tracks		Rubber / Steel		
Engine	Model		Kubota V2203-M-E3	
	Output (SAEJ 1995 gross)	HP (kW)/rpm	40.5 (30.2) / 2250	
	Output (SAEJ 1349 net)	HP (kW)/rpm	39.0 (29.1) / 2250	
	Displacement	cc	2197	
Dimensions	Overall length		mm	
	Overall height	Canopy / cab	mm	
	Overall width		mm	
	Min. ground clearance		mm	
Hydraulic system	Pump capacity		ℓ/min	
	Auxiliary hydraulic flow		ℓ/min	
	Max. breakout force	Bucket / Arm	kgf	
Drive system	Travel speed		km/h	
	Max. drawbar pull		kgf	
	Tumbler distance		mm	
	Crawler length		mm	
	Shoe width		mm	
	Ground contact pressure	Canopy Rubber / Steel	kgf/cm <sup>2</sup>	0.26 / 0.26
		Cab Rubber / Steel	kgf/cm <sup>2</sup>	0.26 / 0.27
Swing system	Unit swing speed		rpm	
	Boom swing angle	Left / Right	degree	
Blade	Dimensions	Width	mm	
		Height	mm	
	Max. lift above ground		mm	
	Max. drop below ground		mm	
Hydraulic oil (reservoir / system)		ℓ	46 / 75	
Fuel reservoir		ℓ	70	
Operating weight (Including operator's weight 80 kg.)	Canopy Rubber / Steel	kgs	4425 / 4510	
	Cab Rubber / Steel	kgs	4520 / 4605	

\*Specifications are subject to change without notice for purpose of improvement.

## DIMENSIONS



Unit: mm

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**KUBOTA Tractor Australia Pty Ltd**

Freecall: 1800 334 653

Email: sales@kubota.com.au

Web Site: <http://www.kubota.com.au>