

For Earth, For Life  
Kubota

FC4

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FC4

FC4-501







## The Superior Flagship

The Kubota FC4-501 is the flagship of the out-front collection mower range. This 50hp model is built to handle very large areas and provide the ultimate cut and collection system.



# Exceptional workplace



Designed and built to handle long working days, a super deluxe air suspension seat is fitted as standard. Anti-vibration mounts and a large foot platform enhances the comfort.



## #Highlights



### Did you know?

Did you know that Kubota produces its own engines and that Kubota is the global market leader for industrial diesel engines under 100 hp? You might be surprised to learn under which bonnets Kubota engines are at work. Top quality and efficiency are the main ingredients of this success.

FC4-501

# The flagship in terms of output, performance and comfort

The flagship of the Kubota out-front collection mower range is the FC4-501. High productivity with fine cut finish are two of the key features on offer with this machine. This flagship model has a high level of comfort as a paramount requirement. Designed and built to handle long working days.

Whether it is working on sports fields, parks, golf courses, or other large green areas, fine cut lawns or rougher undulating areas – the application possibilities for the FC4-501 from Kubota are almost endless. Wherever fast, effective, and precise mowing and collection is required,



### Operator platform

The large operator platform with vibration-damping suspensions, air-suspended Deluxe operator seat, optimized armrest console with electronic controls offers the highest level of comfort, ergonomics and safety.

### ROPS

The robust roll-over protection system (ROPS) provides safe protection for the operator. Thanks to the fold-down bar, low-hanging branches or low entrances are no obstacle.

### Grass collector

The suction turbine ensures fast and effective transport of the cuttings. The high-discharge grass collector with parallelogram lifting and lowering design has an impressive 1300 litres capacity and 230 cm dumping height.

### Hydraulic system

The high-power hydraulic system provides effortless power steering, convenient hydraulic tilting of the cargo area and hydraulic connections for connecting implements.

### Engine

The 4-cylinder, stage V Kubota diesel engine is very powerful and low in emissions thanks to the diesel particulate filter. All maintenance points are quickly and easily accessible.

### Mower decks

The durable design of the mower decks ensures not only a precise cut and a smooth crop flow, but also a long life. Highly productive mowing is guaranteed.



### 4-wheel drive

The permanent 4-wheel drive, together with the differential lock, allows the machine to operate in almost all conditions.

### Transmission

The HST transmission with dual pedal operation for forward and reverse direction offers infinitely variable speed up to 24 km/h. You can choose between two speed ranges for mowing and road travel.

the FC4-501 is the machine of choice. You don't have to rely solely on dry weather to collect grass, because thanks to the exclusive suction turbine, you'll get optimal results even in damp conditions.

### Excellent transmission

The HST transmission contributes significantly to the mower's impressive performance.

### A superior workplace

The operator platform of the FC4-501 is the ultimate workplace that optimally combines high level comfort and ergonomics.

### Precise, efficient mower decks

The mower decks impress with excellent cutting quality and productivity. Front-mounted, they allow you to cut hard-to-access areas that a mid-mower can't reach.

### Made by Kubota

The FC4-501 as well as the rotary decks and flail mowers are manufactured by Kubota. The in-house production gives you double security: You can rely on reliable delivery and benefit from the high quality „Made by Kubota“.





#Working comfort

# Made for highly productive work

The operator's platform is a key element for productive work in self-propelled mowers. In Kubota's FC4-501, it is perfectly adapted to the needs of the operator, allowing him to operate in a relaxed and comfortable way even during long working days.

This machine is designed and built for long working days. A high level of driving and operating comfort is the basis for this. This starts with the vibration damping of the operator platform with the aid of rubber mounts and the cushioned rubber floor and continues with the deluxe comfort seat with ergonomic armrest console, generous storage compartments with USB charging facilities and clear, obstacle-free visibility down to the deck by day and by night.

#### Safety first

The FC4-501 provides safe access to all areas of the machine for inspection and maintenance. The external control panel allows the grass collector and operator platform to be raised. Both are secured in the raised position by a locking valve and safety latches, respectively. A consent button and electric motor operation allows you to raise and lower the platform via the control panel even when the engine is not running. This ensures you have safe access to major areas of the machine with minimal downtime.



#### Drastically reduced vibrations

The platform is suspended on silent block rubber mounts that dramatically reduce any vibrations that could be transmitted from the machine chassis and the collector lifting frame – another comfort benefit for the operator.

#### Ultimate driving and operating comfort

The deluxe air suspension seat provides an extremely high level of comfort. Thanks to an adjustable backrest and armrests it ensures you can adapt perfectly to your needs. Ultimate driving comfort is guaranteed. It's practical, too, because dirt can simply be washed off the plastic cover.

With the compact design of the armrest console, this workstation also sets standards in terms of operation. The console moves with the seat. This means that the most important controls are always forward of the operator and within easy reach.



#### Good visibility at night

The mower offers excellent visibility of the working area even in the dark. Powerful, front mounted lights illuminate the whole front area to allow the operator to see the complete deck area and beyond. The working day is extended to ensure the job is completed.

#### Battery disconnect switch

The battery switch is not only useful if the machine is stored over the winter. It also provides added security because the key can be removed when the machine is in a compound overnight.



#### Safe protection for the operator

The robust rollover protection system (ROPS) ensures safety in all working conditions. If working in an area where you need to get under low-hanging branches, the bar can simply be folded down.

#### Fully adjustable steering wheel

A comfortable driving position is a basic requirement on long workdays. With just one adjustment lever, you can tilt the steering wheel forward and backward as well as adjust its height to best suit you. The adjustable steering wheel also makes it easier to get on and off.



#### Practical storage

The FC4-501 has a USB port as well as a facility for the smartphone, where it is protected from dust. A large storage compartment offers plenty of space for documents. The magnetically closing lid prevents annoying rattling whilst driving.





## #Engine



# Premium engine for the premium mower

**Kubota's EU Stage V 4-cylinder liquid-cooled diesel engine V2403CR meets the premium demands of the FC4-501: state-of-the-art engine technology for high performance, fuel efficiency and reduced emissions. The large 40-litre fuel tank ensures longer periods of mowing and less non-productive downtime.**

### Clean performance

Kubota's exclusive E-TVCS (Three Vortex Combustion System) ensures an optimal air-fuel mixture and an efficient combustion process in the engine. Improved performance, lower fuel consumption and emissions, and smooth engine start-up are the result.

### Durable, quiet and fuel-efficient

The ECU (Engine Control Unit) for the high-pressure common rail system constantly monitors engine performance and controls when the injectors deliver fuel and the required amount. It responds immediately to differing engine loads. The instant delivery of fuel to the engine ensures consistent performance and optimized combustion.

### DPF regeneration

The DOC (Diesel Oxidation Catalyst) reduces nitrogen oxide emissions while the DPF (Diesel Particulate Filter) reduce diesel micro particule. A light on the dashboard alerts the driver when regeneration (cleaning of the DPF) is automatically starting. The driver still have the possibility to manually stop it and start it again if the situation isn't appropriate.



### Always staying cool

The mower is equipped with two electric cooling fans for the engine radiator and the oil cooler. During operation, the fans react immediately to temperature differences and ensure with efficient air flow that overheating does not occur.

### Fast maintenance included

Regular inspection and maintenance tasks are quick and easy with the FC4-501. Simply open the gas strut assisted engine cover and remove the side panel for full access to the engine compartment. The battery is also easily accessible. The vortex pre-cleaner removes the heavier dust particles and extends the life of the air filter.

## #Driveline

# Confident performance from the start

**You'll love the FC4-501's HST transmission. With features like dual pedal operation for forward and reverse, two speed ranges for work and road travel, and a top speed of 24 km/h, it's a key contributor to the mower's impressive performance.**



24 km/h, you can move the mower quickly from one job site to another.

### Brake by switch

The parking brake is easily locked and unlocked with a switch on the steering column. This ensures safe parking even on steep terrain.

### The slope becomes level

The permanent 4-wheel drive and differential lock provide the best traction in all conditions while protecting the turf.

### Extra easy maintenance

The hydraulic system components are easily accessible for inspection and maintenance. The oil cooler has a large capacity radiator with the hydraulic tank having a visual sight glass check of the oil level and angled filler cap to allow easier top-up.

### Control the drive at will

The FC4-501 features axial piston motors with reduction gears on both drive axles. You can control the drive in two ways: You set the hand throttle to maximum rpm and accelerate using the drive pedals. Or you use DEC™ (Dynamic Engine Control). When you press the drive pedal, the engine revs and the machine accelerates, and when you release it, the machine decelerates. With the hand throttle you set the minimum rpm as you do this.

### Work or road speed

Forward and reverse speed on the FC4-501 is controlled by two pedals. Two speed ranges are available for different applications – a low speed for working conditions (0-14 km/h) and a high speed for road travel (0-24 km/h). With an infinitely variable speed of up to





# It's not just the cut that is perfect

Whatever the tasks and challenges you face in your daily mowing operations, Kubota's out-front rotary mower deck and flail mower are reliable, powerful attachments that offer precise, highly productive mowing.

### Independent PTO drive

A multi-plate wet clutch pack drives the PTO for the mower deck. Minimal loss of power from the fully independent system ensures constant operating speed. This allows mowing even in the most difficult conditions with little need for maintenance.

### Fine and highly productive cutting

The FC4-501's front rotary mower with rear discharge and reverse rotation has a cutting width of 1.50 m (59"). The blades rotate in the opposite direction to a conventional rotary mower. This, together with the underbody design and the short discharge distance to the grass collector results in high productivity with high cutting quality even in wet conditions.

### „Swing back“ dual blades

The „swing back“ system with twin blades absorbs shocks and protect the mower driveline against impact with foreign objects left in the grass. Overlapping of the twin blades results in a precise fine cut. Furthermore, it prevents the accumulation of grass and soil debris in the housing. This results in an increased grass throughput.



### Hinged mower deck facilitates maintenance

The mower deck can be hinged and fixed in a vertical position for sharpening or replacing the blades. This makes maintenance much easier and reduces downtime.

### Raise and lower the mower deck with the touch of a finger

You can operate the mower with your fingertips. A rocker switch on the armrest console raises and lowers the deck.



### Standard auxiliary valve

The FC4-501 comes standard with an auxiliary valve that is operated from the armrest console. The console is also pre-set for additional valves. Attachments that require an additional hydraulic oil supply can be easily operated with this valve.

### 3x1 Flail mower: cut, collect and scarify

There are several blade options for the 61" (1.55 m) wide flail mower: Spoon blades for fine grass and Y blades for longer, rough grass. Combining vertical blades with either of the cutting blade options, aerates the ground during mowing. Thanks to the innovative, patented „Smart System“ magnetic blade locking system, you can change blades in less than 15 minutes.

### Switch between collection and ground discharge

Thanks to the design of the flail mower you can close or open a deflector plate. In open position with the turbine on, all the material is vacuumed to the grasscollector. In closed position, you can turn off the turbine and the cut material will remain on the ground. This allows you to adapt the work of the flail mower to the respective ground and location.



### Simple height adjustment

You simply adjust the mower's cutting height with a lever. This way the mower returns to the required working height every time.

## #Grass Collector

# Maximum grass collection is guaranteed

With the large grass collector, you can accomplish an enormous amount. This is ensured not only by its 1300-litre capacity, but also by several features that ensure full utilization of the hopper volume, as well as the unique suction turbine, which ensures a smooth filling.



### Highly effective intake turbine

The centrally located, compact intake turbine is an essential part of the machine. The patented design offers decisive advantages: The collection process is more effective because the cuttings have to travel a shorter distance than with most other systems. The shorter discharge distance also means that the turbine and the collection pipe does not become blocked. The center of gravity mid positioning provides a greater stability and balance of the machine. The whole machine also remains compact, making it extremely maneuverable.

### Various attachments possible

The intake turbine and collection tank can be used with various attachments. With the help of an on/off switch, the operator can activate or deactivate the turbine depending on the connected attachment.

### Convenient high dumping

Lift, lower, tilt, retract – you conveniently operate the grass collector with a large 1300-litre capacity from the armrest console using rocker switches. The maximum unloading height is 2.30 meters. Discharge is completely safe for the driver and bystanders. A hydraulically controlled parallelogram lift / lower system and good overhang tipping clearance allow effective and safe unloading.



### Collector volume is fully utilized

Several functions of the grass collector ensure that the tank volume can be fully utilized. These include the screen, which regulates airflow during operation, and a motor-driven deflector and load spreader, which distributes clippings throughout the tank. The „tank full“ alarm prevents overloading. Since you have to unload less frequently, more productive work time is the result.



## #Technical data

Model	FC4-501	
Version	Out front mowers	
Engine		
Manufacturer	Kubota	
Model	V2403-CR-E5	
Emissions	Stage	5
Cylinder	n°	4
Displacement	cc	2434
Gross power (SAE J1995)	hp/kW	50/37.3
Engine rated speed	rpm	2700
Fuel tank capacity (std)	litres	40
Transmission		
Manufacturer	KG	
Transmission type	Hydrostatic Transmission (HST)	
Speed range	2	
Forward speed	km/h	0 - 14 / 0 - 24
Reverse speed	km/h	0 - 7 / 0 - 12
Drive wheel type	Dual pedal operation	
Hydrostatic Traction Control (HTC)	4WD	
Mechanical differential lock	●	
Drive system to the PTO	Mechanical gear	
Front mower deck system		
Drive system to the deck	Cardan shaft	
Drive system to the mower blades	Gearbox	
Discharge direction	Collecting system	
Front hydraulic outlets	2	
Collector		
Suction turbine	Centrally mounted	
Turbine on/off switch	●	
Grass collector capacity	litres	1300
Max. unloading height	cm	230
Operator station		
ROPS	Foldable	
Mounted on silent block	●	
Instrument panel	TFT Colour Display	
Headlight	LED	
Road light kit	●	
USB socket	●	
Dimensions and weights		
Front tyres	24 x 12 - 12 (Turf)	
Rear tyres	20 x 10 - 8 (Turf)	
Wheelbase	mm	1630
Overall length (Without mower deck)	mm	2990
Overall length (With mower deck)	mm	3530
Overall height (With ROPS upright)	mm	2170
Overall height (With ROPS folded)	mm	1950
Overall Width (Without mower deck)	kg	1240
Total weight (Without mower deck)	kg	1650
Maximum permissible front axle weight	kg	2100
Maximum permissible rear axle weight	kg	1000
Maximum permissible total weight	kg	2600

Front loader model	Rotary mower deck RCR 59C	Flail mower RCF 63C
Rotation	Reverse	-
Cutting width	mm 1500 (59")	1550 (61")
No. of blades	2 discs with 4 articulated anti-shock blades	52
Blade length	mm 177,5	-
Cutting height range	cm 2 - 8	12 ÷ 70 mm ("Y" blades) / 12 ÷ 73 mm (Spool blades)
Adjustment of cutting height	2 front / 2 rear rollers	-
Anti-scalp rollers / Gauge wheels	●	-
Weight	kg 180	370

std ● / opt ○ / available □ / not available -



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