

For Earth, For Life

KUBOTA SOIL EQUIPMENT KUBOTA CU3001 SERIES



Fresh thinking is the answer to today's challenges.

The challenges facing agriculture are continuously evolving and when times are tough it's best to evolve to a new way of thinking - envisaging alternative solutions and making smart decisions. When it comes to tillage, Kubota has you covered with a wide variety of cultivator solutions to fit your needs.



Performance



For shallow and deep tillage

With the CU3001/CU3001P, Kubota provides a cultivator which is the right choice for shallow mixing and deeper loosening in all conditions. A powerful and efficient performance at high forward speeds with the right capacity to finish the job perfectly.





Efficient and versatile

For today's modern farms the demands for cultivation have changed. Tight time slots have to be balanced with higher machine performance. Restricted crop rotations call for an adaption in technology that accomplishes all requirements of modern crop cultivation. The range of operations is versatile 1.97" - 13.78" (5 - 35cm), from shallow to deep stubble cultivation due to the strong tine capacity and high underbeam clearance.

Durable frame design

The CU3001/CU3001P has a well-organised tine arrangement over 3 tine rows. The challenge to cope with long residues has been in focus during the design process ensuring optimum mixing and intensive cultivation. The tine spacing ensures a smooth optimum soil flow and mixing.

On CU3001P a maximum working depth of 11.22" (35cm) is possible (11.81" (30cm) on CU3001). The 12.60" (320mm) bolted wings, also as Knock-on available, ensure a complete cutting over the entire working width even when the machine is adjusted for shallow work. The high interrow clearance of 29.52" (750mm) and the high underbeam clearance of 34.25" (870mm) ensure blockage-free operation under any conditions (maize, sunflower, wheat, oil seed rape stubbles or big intermediate crops).

3 Steps: Tillage - Levelling - Consolidating

The Kubota CU3001/CU3001P offers a 3 row configuration on mounted or fold version. In combination with the tine distance, providing a nice mixing and finishing without the risk of blockages. Both models come equipped with the Triflex 700 tine, a non-stop tine with leafspring protection and 1543 lbs (700kg) release force.

A wide choice of bolted (heat-treated or carbide) or Knockon shares can be combined with different deflectors to suit varying soil conditions, working depths and soil disturbance.

You have the choice of spring loaded levelling tines or levelling discs. Both units can be adjusted in their aggressiveness by changing the angle to the ground which regulated the soil flow. In combination with special border equipment, a perfect levelling is achieved.

Perfect seedbed preparation ends with re-consolidation. Therefore a wide range of rollers are available to meet the various conditions.



Proven reliability, before the machine goest into the field for testing, the frame has been calculated by FEM (Finite Element Method) to optimise the steel over the working width and proposing a strong structure suitable for tractors up to 350hp.





High stability and good penetration

A perfect seedbed or stubble cultivation is an increasingly crucial operation and an important first step to high yields. Earlier seeding dates and conservation tillage systems all add to the pressure to ensure this vital operation is carried out effectively.



The Triflex 700 tine - Intensive mixing and crumbling

The auto-reset Triflex tine uses the well-known Kubota leaf spring system to ensure a high point pressure of 1543lbs (700kg) in work and a smooth release curve when the tine hits an obstacle. The Triflex tine with narrow design and special shape reduces the pulling forces while ensuring a perfect penetration even in heavily compacted soil. It is the perfect choice for deep loosening and working on heavier soil types strewn with stones.

The Triflex 700 tines can be equipped with different shares to adapt to varying working depths and tasks. Seven options of share design are available with the patented Knock-on[®] system. It is the easiest way of changing parts on a cultivator, either to adapt the machine to the job to be done or to change wearing parts.





Specific angle and hollow design

One of the main advantages of the CU3001 tines is its strength and durable material. This is due to the hollow tine technology which allows the Triflex tine to flex sideways by up to 2.76" (7cm). Then there is the special shape of the tine with two working zones. The first lower zone of the tine with a reduced angle of 33° lifts and cracks the soil like a subsoiler. Due to angle and pressure of the soil above, the tine has a high penetration. In the second part of the tine, the angle is raised to 73° in order to ensure an excellent mixing of the soil with residues.

With the tines being light (99lbs (45kg) for a non-stop tine), is very easy to take them off to adapt the cultivator to the working conditions and the tractor available.





Perfect levelling to leave a weatherproof surface

You are looking for a levelled even surface with high level of soil hygiene. Volunteer plant residue from previous crops and habitat for pests and slugs are destroyed, the green bridge interrupted. Effective residue management and the support of soil structure is vital. Therefore Kubota offers two levelling systems that suits to different trash amount. You have the choice to find the best.



Levelling discs for heavier trash conditions.



Levelling tines for light to medium soil conditions.

Even soil surface

In order to create an even and weatherproof surface, Kubota offers two options of levelling tools for the CU3001/ CU3001P. There are levelling tines which are a very easy and economic way of levelling and to handle normal straw conditions on light to medium soil types. When it comes to heavy amounts of residues the levelling discs are more suitable.

Overload protection

Levelling tines are spring loaded and levelling disc are rubber suspended to avoid damages in stony or other difficult conditions. It ensures the individual release of tines or discs and keep levelling quality even in stony conditions. The angle of the levelling discs/tines can be adjusted for a perfect result.





Single finger following harrow

In combination with a roller, an extra single finger harrow (\emptyset 0.47" x 17.72") (\emptyset 12 x 450mm) can be mounted for additional levelling effect and mechanical weed control. The working angle can be adapted.

Triple finger harrow

The rear triple finger harrow (CU3001P) provides levelling and controls weed development by pulling the weeds out of the ground so that the roots dry out in the sun. This is particularly interesting with rhizome and other weeds that could start growing again if they are pressed by a packer immediately after cultivation. Gauge wheels control the working depth of the machine. Working angle can be adapted mechanically and the pressure hydraulically to the required conditions.



Versatile to meet the various conditions

Re-consolidation is an elementary action of arable farming. Reducing large open pores and aggregate size allows for improved seed-to-soil contact and keeping the water necessary for the next crop germination. The right choice of the right roller depends on the soil type and condition. Also lifting capacity of the tractor needs to be considered. Therefore Kubota offers a wide range of rollers to match with all soil conditions and do the work just the way the farmer wants it.



Depth control

The depth control of the Kubota CU3001/CU3001P is adjusted via the roller equipment. The system of the roller attachment allows that the levelling can be easily adjusted by spindles. On CU3001P the levelling section is simultaneously adjusted with the roller thanks to the double parallelogram but can as well if necessary, be fine-tuned.



Rollers for all type of soil

All Kubota rollers have maintenance-free bearings which are protected with 5 sealing lips against dust and water. In heavier conditions like stones, twine, mud etc. additional steel covers extend the lifetime of the bearings.



Actipack ø 22.0" (560mm) -138lbs/ft (205kg/m)

The Actipack roller displays its superb working qualities especially on medium to heavy soils and also in wet, stony and sticky conditions thanks to the independent skids and adjustable knives.



Actiring ø 21.3" (540mm) -108lbs/ft (160kg/m)

The Actiring roller using the same frame structure and knife system than the Actipack but discs are replaced by a "V" profile ring. This saves 40lbs/ft (60kg/m), which is of critical importance for reducing lifting capacity. Actiring is not recommended in stony conditions.



Actiflex ø 22.8" (580mm) -108lbs/ft (160kg/m)

The Actiflex roller has been made to create an intensive mixing and create a nice seedbed with all soil types, even stony conditions. The rings made with spring steel are separated by skids to have a high resistance against stress at high speed and enhance weeds regrowth after harvesting.



Actipress Twin ø 22.0" (560mm) -148lbs/ft (220kg/m)

The u-profile ensure high carrying/rolling capactiy and self-cleaning effect especially for light soils. Due to the fact that there is no direct compaction as it is made with the soil contact, plough pans are avoided. Weight with soil can reach 168lbs/ft (250kg/m).



Cage roller ø 21.7" (550mm) -60lb/ft (90kg/m) 10 bars ensure a good loading capacity and

10 bars ensure a good loading capacity and effective crumbling actions even in wet conditions.



Actipress Single ø 22.0" (ø560mm) -94lbs/ft (140 kg/m)

U-profile rings in distance according to seed row distance. Weight with soil plus 15lbs (+7kg) per ring which means 114lbs/ft (170kg/m) with soil. Recommended on lighter soils.



Double cage roller ø 15.8" (400mm) (tube/flat) - 108lbs/ft (160kg/m) The double cage roller ensures a good

crumbling and levelling effect. It has a high carrying capacity and it is used for precise depth control.



Adjustment



Safe on the road and quick in the field

The CU3001/CU3001P is compact and close to the tractor for good centre of gravity and reduced lifting capacity. To respect the transport width on the rigid models the outer tines/ discs can be hydraulically or mechanically folded in.





Easy to fold

To respect the transport width on mounted versions with 9'10" (3.0m) and 11'6" (3.5m) working width the outer tines/discs can be hydraulically or mechanically folded in for perfect working results and safe road transport.



Knock-on® is the easiest way of exchanging shares on a cultivator: either in order to adapt the machine for the job to be done or to exchange wearing parts. The Knock-on® system based on a simple locking technology. The Knock-on® range offers four share dimensions of 3.15" (80mm), 5.91" (150mm), 9.84" (250mm) and 12.60" (320mm).

User comfort and ease of handling

If you are looking for safe operation and user comfort, Kubota always makes the adjustment operation easy and safe for the user, for saving precious time and recources all along the day. That's why all the adjustments can be done without any tool.

Easy adjustment

Adjusting the CU3001/CU3001P for primary or secondary stubble cultivation is easily done. The depth is adjusted by hydraulic cylinders and spacers on CU3001 or hydraulic on-the-go on CU3001P; and the levelling equipment with cranks. If the working depth is changed, there is almost no need to change the position of the levelling equipment thanks to the double paralelogram on CU3001P. In addition, there is hardly any maintenance to be done apart from changing wearing parts. For farmers with small fields, narrow roads and who want to save time, the rigid models can be equipped with a hydraulic folding system of the lateral levelling device.



Good access and central adjustment of the levelling equipment via crank.



Depth control with hydraulic cylinder and spacers on CU3001.

Depth control

The rear depth control of the Kubota CU3001/CU3001P is adjusted via the roller equipment. The parallelogram frame concept on CU3001P enables the working depth to be easily adjusted. The levelling sections are simultaneously adjusted with the roller, if necessary fine tuning of the levelling device can also be achieved. The adjustment is centralized by cranks. Therefore all adjustments are simple and user-friendly.

CU3001 can be used for stubble and deep loosening up to 11.81" (30cm), lighter execution and cost effective.

The CU3001P is more versatile and comfortable with the double parallelogram system. It is easer to adjust for high versatility, friendly use and suitable for heavy soil with max. depth 13.78" (35cm) (drainage, roots development...)



More ease of use offers the parallelogram linkage of the models with the "P". Here the working depth can be changed from the cab on the go.

Technical data

RIGID MODEL	CU3301	CU3301P	CU3351	CU3351P	CU3401	CU3401P
Frame	mounted rigid					
Dimensions & weight						
Effective working width ft (m)	9'4" (2.85)	9'4" (2.85)	11'4" (3.42)	11'4" (3.42)	12'6" (3.85)	12'6" (3.85)
Roller width ft (m)	9'10" (3.00)	9'10" (3.00)	11'6" (3.50)	11'6" (3.50)	13'1" (4.00)	13'1" (4.00)
Transport width ft (m)	9'10" (3.00)	9'10" (3.00)	11'6" (3.50)	11'6" (3.50)	13'1" (4.00)	13'1" (4.00)
Weight with Cage roller ¹⁾ lbs (kg)	3858 (1750)	3990 (1810)	4630 (2100)	4667 (2170)	4850 (2200)	5049 (2290)
Weight with Actiflex ¹⁾ lbs (kg)	4123 (1870)	4255 (1930)	4982 (2260)	5137 (2330)	5621 (2550)	5820 (2640)
Weight with Actipack ¹⁾ lbs (kg)	4453 (2020)	4586 (2080)	5357 (2430)	5511 (2500)	5952 (2700)	6151 (2790)
Attachment to tractor						
Hitch (CAT)	&	&	&	&	III	III
Min. / max. horsepower req. (hp)	90 / 240	90 / 240	110 / 270	110/270	130/300	130/300
Operation						
Type of tines ³⁾	Triflex 700	Triflex 700	Triflex 700	Triflex 700	in Triflex 700	Triflex 700
Tines (no)	10	10	12	12	14	14
Tine spacing (regular) in (mm)	11.22" (285)	11.22" (285)	11.22" (285)	11.22" (285)	10.83" (275)	10.83" (275)
Tine rows (no)	3	3	3	3	3	3
Row spacing in (mm)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)
Underbeam clearance in (mm)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)
Adjustment of levelling equipment	mechanic	mechanic	mechanic	mechanic	mechanic	mechanic
Levelling device (tines or discs)	0	0	0	0	0	0
Triple finger harrow with gauge wheels 4)	-	0	-	0	-	-
Rear roller ²⁾	0	0	0	0	0	0
Finger following harrow (450x12mm) ⁵	0	0	0	0	0	0
Depth adjustment	hydraulic by spacers	hydraulic On-GO	hydraulic by spacers	hydraulic On-GO	hydraulic by spacers	hydraulic On-GO
Working depth in (cm)	1.97"- 11.81" (5 - 30)	1.97"- 13.78" (5 - 35)	1.97"- 11.81" (5 - 30)	1.97"- 13.78" (5 - 35)	1.97"- 11.81" (5 - 30)	1.97"- 13.78' (5 - 35)

FOLD MODEL	CU3401F	CU3401PF	CU3451F	CU3451PF	CU3501F	CU3501PF		
Frame	mounted fold							
Dimensions & weight								
Effective working width ft (m)	12'6" (3.85)	12'6" (3.85)	14'4" (4.40)	14'4" (4.40)	16'1" (4.90)	16'1" (4.90)		
Roller width ft (m)	13'1" (4.00)	13'1" (4.00)	14'8" (4.50)	14'8" (4.50)	16'4" (5.00)	16'4" (5.00)		
Transport width ft (m)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)		
Weight with Cage roller ¹⁾ lbs (kg)	6261 (2840)	7011 (3180)	6592 (2990)	7341 (3330)	6945 (3150)	7672 (3480)		
Weight with Actiflex ¹⁾ lbs (kg)	6834 (3100)	7584 (3440)	7264 (3295)	8014 (3635)	7716 (3500)	8444 (3830)		
Weight with Actipack ¹⁾ lbs (kg)	7407 (3360)	8157 (3700)	7892 (3580)	8642 (3920)	8311 (3770)	9127 (4140)		
Attachment to tractor								
Hitch (CAT)	III	III	III	III	III	III		
Min. / max. horsepower req. (hp)	130/300	130/300	150 /325	150 /325	170 /350	170 /350		
Operation								
Type of tines ³⁾	Triflex 700							
Tines (no)	14	14	16	16	18	18		
Tine spacing (regular) in (mm)	10.83" (275)	10.83" (275)	10.83" (275)	10.83" (275)	10.83" (275)	10.83" (275)		
Tine rows (no)	3	3	3	3	3	3		
Row spacing in (mm)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)		
Underbeam clearance in (mm)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)		
Adjustment of levelling equipment	mechanic	mechanic	mechanic	mechanic	mechanic	mechanic		
Levelling device (tines or discs)	0	0	0	0	0	0		
Triple finger harrow with gauge wheels 4)	-	0	-	0	-	0		
Rear roller ²⁾	0	0	0	0	0	0		
Finger following harrow (450x12mm) ⁵⁾	0	0	0	0	0	0		
Depth adjustment	hydraulic by spacers	hydraulic On-GO	hydraulic by spacers	hydraulic On-GO	hydraulic by spacers	hydraulic On-GO		
Working depth in (cm)	1.97"- 11.81" (5 - 30)	1.97"- 13.78" (5 - 35)	1.97"- 11.81" (5 - 30)	1.97"- 13.78" (5 - 35)	1.97"- 11.81" (5 - 30)	1.97"- 13.78" (5 - 35)		

TRAILED MODEL		CU3401T	CU3401PT	CU3451T	CU3451PT	CU3501T	CU3501PT	
Frame		trailed	trailed	trailed	trailed	trailed	trailed	
Dimensions & weight								
Effective working width	ft (m)	12'6" (3.85)	12'6" (3.85)	14'4" (4.40)	14'4" (4.40)	16'1" (4.90)	16'1" (4.90)	
Roller width	ft (m)	13'1" (4.00)	13'1" (4.00)	14'8" (4.50)	14'8" (4.50)	16'4" (5.00)	16'4" (5.00)	
Transport width	ft (m)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	9'4" (2.85)	
Weight with Cage roller ¹⁾	lbs (kg)	7537 (3419)	6944 (3150)	8311 (3770)	8708 (3950)	8369 (3796)	8853 (4016)	
Weight with Actiflex ¹⁾	lbs (kg)	9689 (4395)	7716 (3500)	10351 (4695)	10747 (4875)	10802 (4900)	11287 (5120)	
Weight with Actipack ¹⁾	lbs (kg)	10181 (4618)	8311 (3770)	10877 (4934)	11274 (5114)	11360 (5153)	11845 (5373)	
Weight with Actipress Twin ¹⁾	lbs (kg)	10505 (4765)	10802 (4900)	11078 (5025)	11365 (5155)	11662 (5290)	12136 (5505)	
Attachment to tractor								
		Cross shaft Cat.	Cross shaft	Cross shaft Cat.	Cross shaft Cat.	Cross shaft Cat.	Cross shaft Cat.	
		III or Cat. IV	Cat. III or Cat.	III or Cat. IV				
Hitch	(CAT)	N, Fixe eye (ø	IV N, Fixe eye (ø	N, Fixe eye (ø	N, Fixe eye (ø	N, Fixe eye (ø	N, Fixe eye (ø	
		50mm) or ball	50mm) or ball	50mm) or ball	50mm) or ball	50mm) or ball	50mm) or ball	
		coupling K80	coupling K80	coupling K80	coupling K80	coupling K80	coupling K80	
Min. / max. horsepower req.	(hp)	130/300	130/300	150 /325	150 /325	170 /350	170 /350	
Operation								
Type of tines ³⁾		Triflex 700	Triflex 700	Triflex 700	Triflex 700	Triflex 700	Triflex 700	
Tines	(no)	14	14	16	16	18	18	
Tine spacing (regular)	in (mm)	10.83" (275)	10.83" (275)	10.83" (275)	10.83" (275)	270	270	
Tine rows	(no)	3	3	3	3	3	3	
Row spacing	in (mm)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	29.53" (750)	
Underbeam clearance	in (mm)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	34.25" (870)	
Adjustment of levelling equipment		mechanic	mechanic	mechanic	mechanic	mechanic	mechanic	
Levelling device (tines or discs)		0	0	0	0	0	0	
Triple finger harrow with gauge wheels 4)		-	-	-	-	-	-	
Rear roller ²⁾		0	0	0	0	0	0	
Finger following harrow (450x12mm) ⁵⁾		0	0	0	0	0	0	
Depth adjustment		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	
		by spacers	On-GO	by spacers	On-GO	by spacers	On-GO	
Working depth in (cr	in (cm)	1.97"- 11.81"	1.97"- 13.78"	1.97"- 11.81"	1.97"- 13.78"	1.97"- 11.81"	1.97"- 13.78"	
		(5 - 30)	(5 - 35)	(5 - 30)	(5 - 35)	(5 - 30)	(5 - 35)	

• standard o option

¹⁾ Weights given as an indication with hollow discs and Triflex 700 tines

^a Cage roller ø 21.7" (550mm), Double Cage roller ø 15.8" (400mm), Actiring ø 21.3" (540mm), Actiflex ø 22.8" (580mm), Actipack ø 22.1" (560mm), Actipress Single ø 22.1" (560mm), Actipress Twin ø 22.1" (560mm) - no Triple finger harrow possible,

³⁾ Triflex 700 = auto-reset protected; special heat-treated hollow tine technology

⁴⁾ Triple finger harrow (ø 0.63" (16mm); Length 29.53" (750mm) with mechanical depth control wheels 2 x 6.00x9 on rigid models and 2 x 10.0/80-12 on fold models - no rear roller possible

⁵⁾ Finger harrow in combination with Actipress Twin not possible on trailed CU3001 series with extended frame version



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