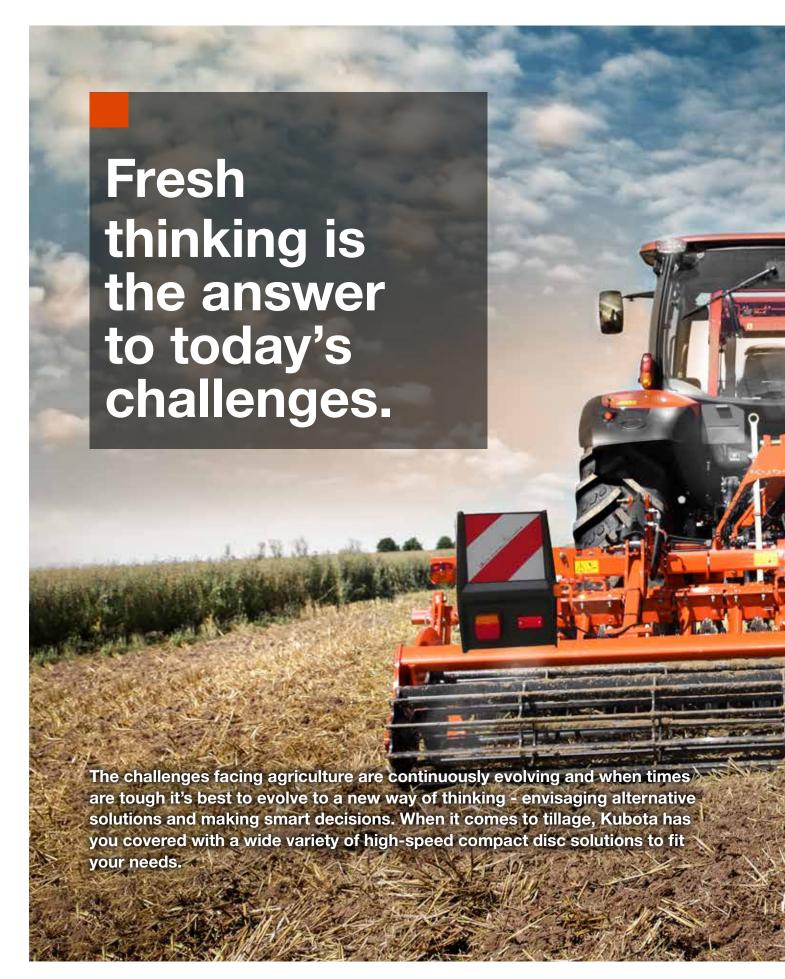




KUBOTA HIGH-SPEED COMPACT DISCS KUBOTA CD SERIES









High capacity and cutting performance

The Kubota high-speed compact disc operate at high forward speeds of up to 20km/h and cultivate at a constant working depth whilst maintaining full cutting of and residue incorporation to promote weed germination, seedbed preparation after ploughing as well as for incorporation of catch crops due to the large conical discs and the high inter-row distance.

High stability

The trailed models are extremely stable during work and ensures safe road transport due to the double suspension device.

CD series

Mounted rigid/fold and trailed fold frames in working widths from 6.5' to 23' (2.0 to 7.0m) with 2 rows of discs ensure full cutting over entire working width.



Rear Rollers

Consolidation is elementary to improve seed-to-soil contact, keep water and reduce clods. 6 different rear rollers are available for any type of soil.

Kubota has one of the hardest disc in the market. The cutting angle is always constant due to its conical design. All bearings are maintancefree and have 2 years of warranty.



CD2001: Strong, user-friendly and universal

Stubble cultivation is of major importance within conservation tillage: Lots of farms are working less than 6"(15cm) deep for most of the operations like seedbed preparation or first stubbling operations. It incorporates weed and volunteer cereal seeds into the soil with intensive mixing and promotes their germination for a more efficient subsequent treatment. The even incorporation of the straw presents a key factor for seed germination. The CD2001 is ready for shallow as well as for deeper cultivation and of course the mixing of the straw. It also shows excellent performance with large amounts of residue (straw, intermediate green crops, etc.) thanks to its large discs.

CD1001: Ideal for reducing soil compaction

The CD1001 series is a lighter execution of the CD2001 series for more shallow use from 6.5' (2.0m) to 19.7' (6.0m) mounted and from 13.1' (4.0m) to 19.7' (6.0m) trailed working width. This machine is for farmers who want to use the compact disc harrow up to 4" (10cm) deep. Consequently, the machine is 15% lighter on mounted version and 7% on trailed models, easier to lift, ideal for reducing soil compaction and more economic for farmers.

Load tests

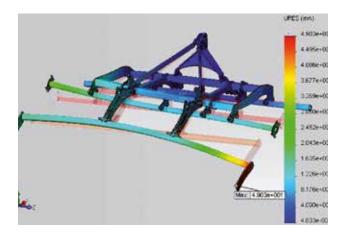
The frames are a result of a long study made by FEM (Finite Element Method) calculation to optimise the steel over the working width and proposing a strong structure. Different scenarios have been chosen to make sure that it is able to resist even with the most aggressive angles while turning etc.

3 Steps: Tillage - Levelling - Consolidating

The Kubota CD2001 series 23.6" (ø 600mm) and CD1001 20.5" (ø 520mm) offer two rows of discs. Each conical disc is heat-treated and mounted with elastic rubber buffers. The high inter-row distance of 35.43" (900mm) ensures optimal soil flow and preparation. On ploughed land a Clod Board can be mounted on trailed CD models to adjust the machines to different conditions and tasks.

The Kubota short disc harrows offer lateral side deflectors as standard and an optional integrated finger harrow to regulate the soil flow and to achieve a perfect levelling.

Perfect seedbed preparation ends with consolidation. Therefore, a wide range of rollers are available to meet the various conditions: Cage roller Ø 21.65" (550mm), Double Cage roller Ø 15.75" (400mm), Actiring Ø 21.26" (540mm), Actiflex Ø 22.83" (580mm), Actipack Ø 22.05" (560mm), Actipress Twin Ø 22.05" (560mm).

















Large, robust maintenance-free conical disc and arm

The unique design features allow for a reduction in weight and an increase in strength. The hollow design of the arms withstand high front and lateral loads and the special profile provides good soil flow even with larger volumes of plant residues.

Perfect cutting angle

The upper part of the arm is fitted with special brackets to avoid any lateral movement: the cutting angle is fixed to ensure an optimum cutting quality even under the driest of conditions. The rear disc section operates offset to the front unit to provide optimum performance and residues incorporation.

A rubber shock system adjusted to the size of the disc and working speed

The rubber buffers absorb any shock loads from contact with unforeseen obstacles. If the forces become too high, the disc arms will rotate to overcome the obstacle thus protecting the implement.

Maintenance-free bearings

Each angled arm is fitted with a large maintenance free double ball bearing and 1-3/8" (35mm) axle. This high quality bearing is able to carry heavy radial and axial loads. Special protection on the side of the arm is achieved by a special seal of 5 sealing lips and by the joint protecting the bearing. On the other side the disc is protected against dust by an O-ring. The quality of the bearing and the material used allows a warranty period on the machine for two years.



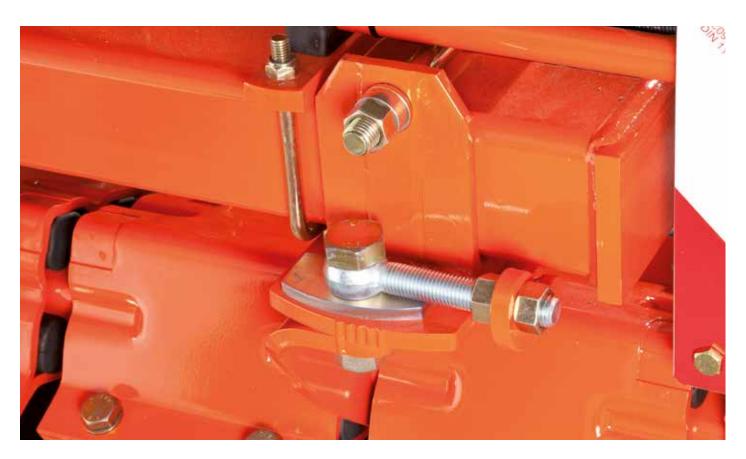


Impeccable full cutting quality at constant depth

You are looking for an always good cutting quality, therefore overlapping on the disc rows of the CD2001 series can be adjusted to each other because the size of the discs is important. This ensures that the soil is cut over the entire working width independently however the disc diameter changes. Simple and efficient. CD1001 models can be adjusted in two positions due to their rotating disc gangs.



8



A lateral adjustment for perfect cutting quality

In order to maintain the optimum cutting quality and to be able to wear the disc as much as possible while maintaining a perfect cutting quality, the CD2001 Series is fitted with a lateral adjustment which allows the gangs to be positioned correctly as the disc diameter reduces.

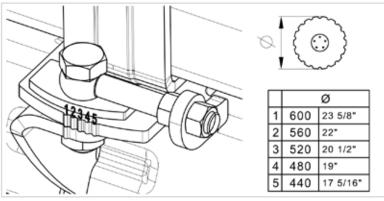
A decal on the frame shows the adjustment of the disc sections according to the diameter – simple and efficient! NB: not available on CD1001 series.

Long lasting large conical disc

In order to achieve a perfect cutting quality even at a shallow working depth, the CD2001 series is fitted with a disc of large diameter of \varnothing 23.6" x 15/64" (600 x 6mm). This increase in diameter allows ease of operation in the highest volumes of vegetable residues, as for example: intermediate crops which

have to be destroyed before the seeding of the following crop. The notched discs improve its penetration and rotation irrespective of any plant residues. All CD1001 models get a disc of \varnothing 20.5" x 13/64" (520 x 5mm).

The discs are given a special heat treatment at 473lbs/215 kg/mm² (58 HRC) for a long durability and strength. Thus, the machine longevity has been increased and the maintenance costs reduced. Ask for the quality of Kubota!



A constant cutting angle

Irrespective of the diameter of the disc, the cutting angle is always constant due to its conical design.



Versatile to meet 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.





The following harrow
The following harrow in front
of the roller is bent at the
root and allows a regulated
progressive soil flow
without too much power
requirement.



Clod Board (option on trailed models)

The cload board increases the crumbling performance on ploughed land and ensures active levelling due to the high vibrations of the cracker tines. The agressiveness of the Clod Board can be adjusted hydraulically from the cab. The Clod Board can be easily set in the off position.

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 22.04" (560mm) - 452lb (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 21.26" (540mm) - 353lbs (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 132lbs (60kg/m), which is of critical importance for reducing lifting capacity. Actiring is not recommended in stony conditions.



Actiflex ø 22.83" (580mm) - 353lbs (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 22.04" (560mm) - 485lbs (220kg/m)

The u-profile ensure high carrying/rolling capactly 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 551lbs (250kg) per meter.



Actipress Single ø 22.04" (ø560mm) - 308lbs (140 kg/m)

U-profile rings in distance according to seed row distance. Weight with soil plus 15lbs (+7kg) per ring which means 374lbs (170kg/m) with soil. Recommended on lighter soils.



Double cage roller ø 15.75" (400mm) (tube/flat) - 353lbs (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.



Cage roller ø 21.65" (550mm) - 198lb (90kg/m)

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



Single finger following harrow

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



Safe on the road and quick in the field

The CD models can easily be converted from transport to work position. The hydraulic transport locking device unlocks automatically when unfolding. The two-part hydraulic folding gives a transport width of max. 9.0' (2.75m). The hydraulic suspension ensures smooth running and safe road transport.





Hydraulic double suspension

The CD1001T and CD2001T are extremely stable as they are equipped with a double suspension device that protects the frame against stress and increase tremendously the stability of the machine during work.



Gauge Wheels

On trailed models additional gauge wheels of 340/55x16 (option) can be mounted in front of the discs to ensure better machine stability and a constant depth control during operation. The working depth can be easily adjusted by spacers at the depth cylinders as with the rollers.

12

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 day long. That's why all the adjustments can be done without the need for tools.

Ease of use

All the adjustments can be done without the need for tools, a lot of precious time is saved! The working depth can be easily adjusted by pivoting spacers, even if it is manually or hydraulically adjusted. At any time during operation the weight of the roller can be used to improve penetration with both systems. With the cylinders locked via a special lock valve, the depth will be constant. With the mechanical adjustment by spacer (only on mounted version), the roller weight is transferred to the machine thanks to a locking bush. In both cases, the roller weight can be used to improve the penetration.





The working depth can easily be adjusted by pivoting spacers, no matter if it is manually (only on mounted models) or hydraulically.



The adjustable lateral side deflectors on the right and left-hand side control the soil flow to provide a perfect level finish. All discs are working at the same depth, even the outer ones. The lateral deflectors are parallelogram mounted which allows them to follow the ground contours and control the soil flow at the same time.

An optional pair of star discs instead of two standard discs, one mounted on the front right and one at the rear left side improves the levelling effect in light and fluffy soils and provides additional quidance of the soil flow.





Stubbling and seeding of cover crops in one pass

The EU nitrate directive aims to protect water resources classed as vulnerable with 50mg nitrate/l. One of the measures considered avoiding nitrate leaching in the water source is the systematic coverage of soils by a vegetal cover in autumn. This cover will absorb nitrogen from the soil and air, and converts it into organic nitrogen compounds. The cover will then release nitrogen to the next crop (1/3), hereby improving soil structure and protecting it from erosion.



Cover Crops

There are many reasons to promote the establishment of intermediate crops such as mustard, radish, phacelia or crops mixings in the autumn. These covering crops will catch the mineral nitrogen in the soil as well as air nitrogen when mixing with leguminous plants and transform it into organic nitrogen. Thus, the nitrogen will still be available for the next crops. Moreover, covering the soil in the autumn protects the soil against erosion and improves the soil structure.

SH200 an SH500 with 5.7bu (200l) or 14.2bu (500l) hopper capacity have been designed to meet a rapid implementation of cover crop during stubble operations while minimizing their costs. In addition, they can also be used for establishing rape or mix of different diameters seeds (leguminous plant, crucifers, ...).

Precision and High Work Output

Two models are available which differ in the seed rate/ha and the output of the machine: The SH200 will be used for rather small seed sizes with a low seed rate/ha, whereas the SH500 would be preferred with higher seed rate 22 to 45lbs/ac (25 to 50 kg/ha - mix of seeds, grass, etc ...) in order to maintain a significant autonomy even with wide machines. Both models have 8 outputs which will spread the flow of seeds uniformly over the working width.

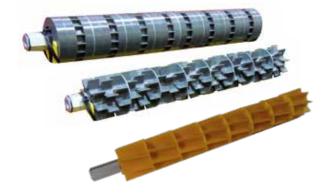




Fans adapted to Seeds, Working Speed and Width

The SH series can be equipped with two types of fan:

- An electric fan recommended for small seeds and allowing seed rates of 8bs/min (4kg/min)
- A hydraulic fan for flow rates up to 30lbs/min (14 kg/min)



Seed Metering Rotors for all Conditions

The SH200 and SH500 are delivered with two types of rotor: one for small seeds (rape, mustard, cabbage, clover, etc ...), and a medium rotor for seeds (vetch, grass, sunflower, ...). The agitator placed above the rotor ensures a steady stream of seeds. A brush, located at the base of the rotor, will regulate the flow and improve the setting accuracy. For large seeds (peas, horse beans, etc ...), it is strongly advised to choose the Flex rotor option, which is able of deforming with large seed diameter.

Technical data

Model series	CD1001					
Model	CD1201 CD1251 CD1301 CD1351 C				CD1401	
Frame	mounted rigid					
Working width ft (m)	6'7" (2.0)	8'2" (2.5)	9'10" (3.00)	11'6" (3.50)	13'1" (4.0)	
Transport width ft (m)	6'7" (2.0)	8'2" (2.5)	9'10" (3.00)	11'6" (3.50)	13'1" (4.0)	
Number of discs	16	20	24	28	32	
Disc diameter - Hardness	20.47" x 13/64" (520×5 mm) - 474lbs/215kg/mm ²					
Inter-row distcance in (mm)	35.43" (900)					
Disc spacing in (mm)	9.84" (250)					
Working depth in (cm)		0.8" - 4" (2-10)				
Linkage	Cat. II Cat. II and Cat. III					
Underbeam clearance in (mm)	28.93" (735)					
Depth adjustment	Hydraulic or mechanic by spacer					
Finger harrow (400x10mm)	0					
Pair of star discs	0					
Clod Board	-					
Roller offering	Cage roller ø 21.65" (550mm), Double Cage roller ø 15.75" (400mm), Actiring ø 21.26" (540mm), Actiflex ø 22.83" (580mm), Actipack ø 22.05" (560mm), Actipress Single ø 22.05" (560mm), Actipress Twin ø 22.05" (560mm) - not on 13'1" (4.0m) rigid version					
Finger following harrow 2)	0					
Transport wheels	-					
Gauge wheels	-					
Double suspension device	-					
Frame box section	4" x 4" x 5/16" (100×100×8)					
No. of double acting valves	1 or 0					
Brake						
Integrated seeder SH200/SH500	0					
Total weight with Cage roller 1) lbs (kg)	2444 (1109)	2808 (1274)	3161 (1434)	3736 (1695)	4168 (1891)	
Total weight with Actiflex 1) lbs (kg)	2738 (1242)	3192 (1448)	3635 (1649)	4299 (1950)	5000 (2268)	
Total weight with Actipack 1) lbs (kg)	2974 (1349)	3461 (1570)	3935 (1785)	4629 (2100)	5332 (2419)	
Min. HP (hp)	50	55	70	90	110	
Max. HP (hp)	100	120	150	180	200	

Weights rigid machines calculated with hydraulic depth adjustment and lighting equipment; trailed models calculated with finger harrow, hydraulic depth adjustment, lighting equipment and front gauge wheels.

Finger following harrow (450x12mm) only in combination with rear roller

2 different frame versions available: compact and extended (length +640mm; weight plus approx. 100kg) - rollers Actipress Twin and Double Cage roller only available with extended frame version on trailed CD models only in combination with single roller and extended frame version 1)

16 CD SERIES -

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CD1001F			CD1001T					
CD1401F	CD1501F	CD1601F	CD1401T CD1501T CD160					
mounted fold			trailed fold ³⁾					
13'1" (4.0)	16'5" (5.0)	19'8" (6.0)	13'1" (4.0)	16'5" (5.0)	19'8" (6.0)			
	8'0" 2.45		8'20" (2.5)					
32	40	48	32 40 48					
20.47" x 13/	(64" (520×5 mm) - 474lbs.	/215kg/mm²	20.47" x 13/64" (520×5 mm) - 474lbs/215kg/mm²					
	35.43" (900)		35.43" (900)					
	9.84" (250)			9.84" (250)				
	0.8" - 4" (2-10)		0.8" - 4" (2-10)					
	Cat. III		Cross shaft Cat. III or Cat. IV N, fixe eye Ø 1.97" 50mm or ball coupling K80**					
	28.93" (735)		28.93" (735)					
Нус	draulic or mechanic by spa	cer		Hydraulic by spacer				
	0			O ⁴⁾				
	0			0				
-			0					
Cage roller ø 21.65" (550mm), Double Cage roller ø 15.75" (400mm), Actiring ø 21.26" (540mm), Actiflex ø 22.83" (580mm), Actipack ø 22.05" (560mm), Actipress Single ø 22.05" (560mm), Actipress Twin ø 22.05" (560mm) - not on 19'8" (6m) fold version			Cage roller ø 21.65" (550mm), Double Cage roller ø 15.75" (400mm), Actiring ø 21.26" (540mm), Actiflex ø 22.83" (580mm), Actipack ø 22.05" (560mm), Actipress Single ø 22.05" (560mm), Actipress Twin ø 22.05" (560mm)					
0			0					
-			400/60×15.5, 480/45×17 or 520/50×17					
	-			2×340/55x16				
-		•						
4" x 4" x 5/16" (100×100×8) and 7 7/8"x 7 7/8" x 25/64" (200×200×10) (central frame)			4" x 4" x 5/16" (100×100×8) and 11 13/16" x 7 7/8" x 25/64" (300×200×10) (central frame)					
2 or 1			4 or 3					
<u> </u>			hydraulic or pneumatic					
0		0						
5213 (2365)	6122 (2777)	7087 (3215)	7627 (3460)	8558 (3882)	9449 (4286)			
5800 (2631)	6889 (3125)	8035 (3645)	8214 (3726)	9325 (4230)	10397 (4716)			
6272 (2845)	7427 (3369)	8635 (3917)	8686 (3940)	9863 (4474)	10996 (4988)			
110	130	150	130	150	170			
200	250	300	220	260	300			

• Standard equipment • O Option - Not available

Technical data

Model Frame Working width ft (m)	CD2201	CD2251	CD2204		
		00220.	CD2201 CD2251 CD2301 CD2351		
Working width ft (m)	mounted rigid				
11 (11)	6'7" (2.0)	8'2" (2.5)	9'10" (3.00)	11'6" (3.50)	13'1" (4.0)
Transport width ft (m)	6'7" (2.0)	8'2" (2.5)	9'10" (3.00)	11'6" (3.50)	13'1" (4.0)
Number of discs	16	20	24	28	32
Disc diameter - Hardness	23.22" x 15/64" (600×6 mm) - 474lbs/215kg/mm ²⁾				
Inter-row distcance in (mm)	35.43" (900)				
Disc spacing in (mm)	9.84" (250)				
Working depth in (cm)	1.2" - 6" (3 - 15)				
Linkage	Cat. II and Cat. III				
Underbeam clearance in (mm)	31.88" (810)				
Depth adjustment		Hydra	ulic or mechanic by s	pacer	
Finger harrow (400x10mm)	0				
Pair of star discs	0				
Clod Board	-				
Roller offering	Cage roller ø 21.65" (550mm), Double Cage roller ø 15.75" (400mm), Actiring ø 21.26" (540mm), Actiflex ø 22.83" (580mm), Actipack ø 22.05" (560mm), Actipress Single ø 22.05" (560mm), Actipress Twin ø 22.05" (560mm) - not on 13'1" (4.0m) rigid version				
Finger following harrow ²⁾	0				
Transport wheels	0				
Gauge wheels	-				
Double suspension device			-		
Frame box section ft (mm)	4" x 4" x 5/16" (100×100×8)				
No. of double acting valves	1 or 0				
Brake	-				
Integrated seeder SH200/SH500	0				
Total weight with Cage roller 1) lbs (kg)	3064 (1390)	3326 (1509)	3791 (1720)	4270 (1937)	4843 (2197)
Total weight with Actiflex 1) lbs (kg)	3448 (1564)	3710 (1683)	4265 (1935)	4832 (2192)	5674 (2574)
Total weight with Actipack 1) lbs (kg)	3683 (1671)	3979 (1805)	4565 (2071)	5163 (2342)	6007 (2725)
Min. HP (hp)	50	70	90	110	130
Max. HP (hp)	160	180	200	220	240

Weights rigid machines calculated with hydraulic depth adjustment and lighting equipment; trailed models calculated with finger harrow, hydraulic depth adjustment, lighting equipment and front gauge wheels.

Finger following harrow (450x12mm) only in combination with rear roller 1)

18 CD SERIES -

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² different frame versions available: compact and extended (length +640mm; weight plus approx. 100kg) - rollers Actipress Twin and Double Cage roller only available with extended frame version on trailed CD models only in combination with single roller and extended frame version

CD2001F			CD2001T					
CD2401F	CD2501F	CD2601F	CD2401T	CD2501T	CD2601T	CD2701T		
mounted fold		trailed fold ³⁾						
13'1" (4.0)	16'5" (5.0)	19'8" (6.0)	13'1" (4.0)	16'5" (5.0)	19'8" (6.0)	22'11" (7.0)		
8'36" (2.55)	8'36" (2.55)	8'36" (2.55)	9'0" (2.75)	9'0" (2.75)	9'0" (2.75)	9'0" (2.75)		
32	40	48	32	40	48	56		
23.22" x 15/	23.22" x 15/64" (600×6 mm) - 474lbs/215kg/mm ²⁾			23.22" x 15/64" (600×6 mm) - 474lbs/215kg/mm ²⁾				
	35.43" (900)			35.43" (900)				
	9.84" (250))			9.84" (250)				
	1.2" - 6" (3 - 15)		1.2" - 6" (3 - 15)					
Cat. III		Cross shaft Cat. III or Cat. IV N, pivoting or fixe eye Ø50mm or ball coupling K80**						
	31.88" (810)		31.88" (810)					
Нус	fraulic or mechanic by spa	acer		Hydraulic	by spacer			
	0		0					
	0			0				
	-			0				
Cage roller ø 21.65" (550mm), Double Cage roller ø 15.75" (400mm), Actiring ø 21.26" (540mm), Actiflex ø 22.83" (580mm), Actipack ø 22.05" (560mm), Actipress Single ø 22.05" (560mm), Actipress Twin ø 22.05" (560mm) - not on 19'8" (6m) fold version		Double Cage roller ø 15.75" (400mm), Actiring ø 21.26" (540mm), Actiflex ø 22.83" (580mm), Actipack ø 22.05" (560mm), Actipress Single ø 22.05" (560mm), Actipress Twin ø 22.05" (560mm)						
0		O ⁴⁾						
	0		400/60×15.5, 480/45×17 or 520/50×17					
	<u>-</u>		2×340/55x16					
	-			(•			
	4" x 4" x 5/16" (100×100×8) and 7 7/8"x 7 7/8" x 25/64" (200×200×10) (central frame)		4" x 4" x 5/16" (100×100×8) and 11 13/16" x 7 7/8" x 25/64" (300×200×10) (central frame)					
2 or 1		4 or 3						
<u>-</u>		hydraulic or pneumatic						
0		0						
6097 (2766)	7112 (3226)	8337 (3782)	8615 (3908)	9647 (4376)	10934 (4960)	11951 (5421)		
6684 (3032)	7879 (3574)	9285 (4212)	9202 (4174)	10414 (4724)	11882 (5390)	13075 (5931)		
7156 (3246)	8417 (3818)	9885 (4484)	9673 (4388)	10952 (4968)	12482 (5662)	13737 (6231)		
150	170	190	150	170	190	210		
250	300	350	250	300	350	400		

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