

Integrated Pneumatic Seed Drills



CD 1020 INTEGRATED SEEDBED CULTIVATORS
HR 1020 / 1030 / 1040 POWER HARROWS
VENTA 1020 / 1030 SEED DRILLS

www.kuhn.com



be strong, be **KUHN**



CD HR VENTA

THE ADAPTABLE DRILL COMBINATION!



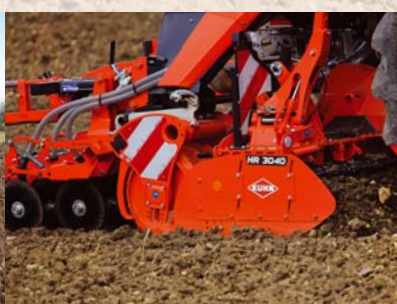
Seed drill combinations are conceived as universal seeding solutions that are able to seed accurately in all kinds of conditions. Different soil types, production systems or weather conditions: thanks to many user-friendly adjustment options on KUHN's new CD/VENTA and HR/VENTA combinations you can easily ensure precise seed delivery also in frequently changing conditions.

EASY ADJUSTMENTS MEAN PRECISE SEEDING

The optimum seed rate or seedbed preparation depends on site-specific conditions. As they can often change on a small scale, the new KUHN seed drill combinations are equipped with a variety of adjustments that are easy to perform. In this way, you can adapt the drill quickly and comfortably to changing conditions. For several settings this is possible from the cabin during work.

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COMBINING IS EVERYTHING: A MODULAR C

PATENT

CHANGE THE TILLAGE TOOL IN LESS THAN

10 MINUTES!

The patented tool combination enables fast fitting the VENTA seed drill to the tillage tool roller frame or removing it. Uncoupling is quickly carried out, if you want to work solo with the power harrow or change tool.



ONCEPT



VERY EASY ADJUSTMENTS

Vary the seed rate according to the conditions. The electric metering unit makes the drill ready for precision farming. Thus, the ISOBUS drill combination can handle variable seed rates determined by site-specific application maps previously loaded on your terminal.



Adjust the covering harrow centrally. Thanks to its centrally positioned adjustment, you can easily adapt the covering harrow pressure to the current conditions.



ONE DAY SEEDING AFFECTS ONE-YEAR RESULTS

Because it is the first step in obtaining the best harvest of your crop, integrated seed drill adjustments are essential. Field conditions are very variable due to many parameters which include weather conditions, soil, seed characteristics, sowing date, yield objectives, pest pressure...

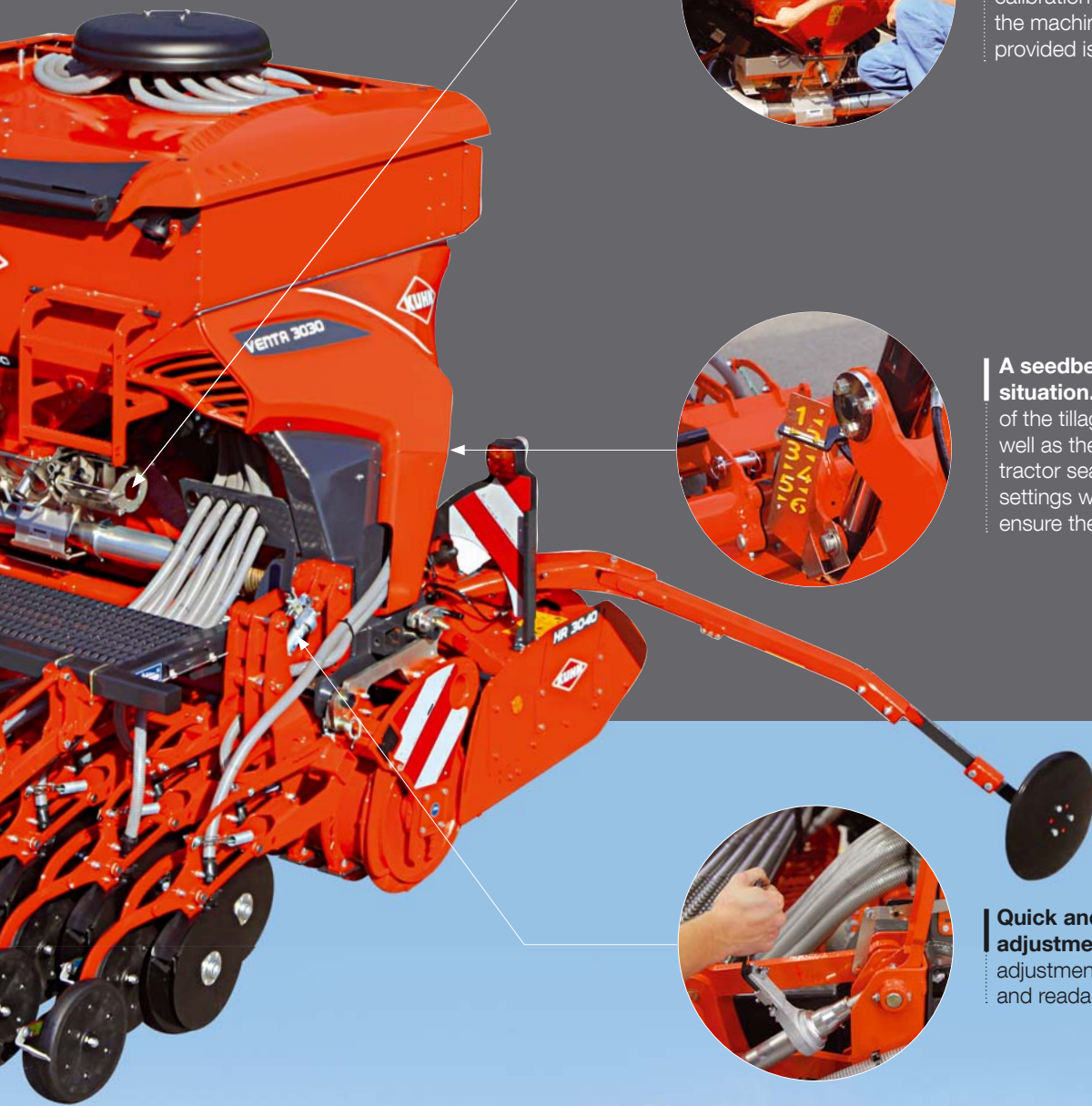
KUHN brings together easy adjustments to allow you to give the best chance to the establishment of your crop whatever your field conditions!

DO YOU WANT TO SUCCEED IN CROP ESTABLISHMENT?

Managing the following challenges is a key part of making your crop growth a success.

- Seedbed quality thanks to the cultivation tools
- Plant density regulated by the metering unit
- Regular emergence managed by the seeding unit

With these three functions, the « one-pass machine » ensures seed positioning at the right depth, regularity in the furrow and best soil/seed contact.



Calibrate the seed rate with ease. Less stepping on/off the tractor with the button starting the calibration located at the rear of the machine. The calibration bag provided is very easy to handle.



A seedbed optimized for every situation. The hydraulic adjustment of the tillage tool's working depth as well as the levelling board from the tractor seat enables you to change its settings within a plot during work to ensure the optimum seedbed.



Quick and easy seeding depth adjustments. Centralized adjustments are very accessible and readable on scale.



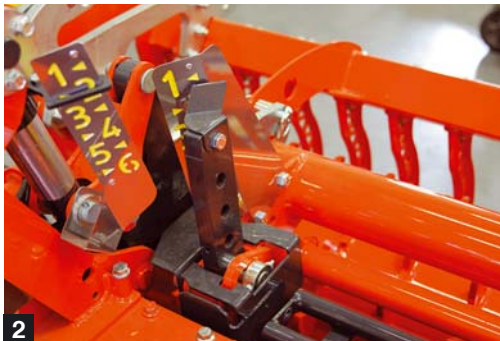
EASY ADJUSTMENTS ENABLE PRECISE SEEDING WORK



TILLAGE TOOL ADJUSTMENTS

1. TOOL WORKING DEPTH

Working depth is hydraulically or manually adjustable according to the HR or CD series. Adjustments can be done from the cabin and indicators are positioned in such a way that they are easy to check from the tractor seat.



2. LEVELLING BAR POSITION

You can set the levelling bar angle to three different positions on the HR series. This provides for precise tuning of the soil crumbling: close to the rotors for a fine soil preparation in very heavy conditions or tilted to the back for light seedbed preparation. It also improves the power consumption management.





SEED DRILL ADJUSTMENTS

4. READY TO APPLY VARIABLE SEED APPLICATION RATES

To establish a uniform crop or to utilize fully differing yield potentials, seed rates are ideally adapted to small scale soil differences. Electric drive of the metering unit makes the new KUHN drill combinations ready for this. This way, they can handle variable seed rate application (VRA) determined by site-specific application maps previously loaded on your control box.



3. EASY SEED APPLICATION RATE CALIBRATION

CCI 1 200 or CCI 50 ISOBUS control boxes guide you comfortably through the calibration process. A calibration button close to the metering unit allows you to proceed with the seeding rate calibration without having to go back in the tractor cab.

When working at night, the metering unit and hopper LED lights can be switched on to ensure precise work.

5. SEEDING DEPTH IS A QUESTION OF SOIL CONDITION

Optimum seeding depth depends on the conditions you find on the very day of seeding. According to soil type, seeding date and soil humidity, seeding depth must be adapted. This is easily done on the new KUHN seed drill combinations via one handle with ratchet on each side of the drill.

The same pressure is kept on front and rear seeding units independently of the seeding depth. (PATENTED)

6. FOR A PERFECT FINISH

Thanks to the central adjustment of the covering harrow, you can easily adapt its pressure to the current conditions as well as any seed type.

This way perfect seedbed finish and full seed coverage is ensured.

HIGH OUTPUT IN LIGHT SOILS

A seed drill combination is designed to do the right seeding job at the right place. According to soil type, terrain profile and current seeding conditions, required settings may differ in order to achieve a more uniform crop or an optimized yield. KUHN's new HR/VENTA and CD/VENTA drill combinations feature all required adjustment options to live up to these requirements. All of them are easy to set, some from the cabin, thus enabling you to adapt the machine within the plot.





1 DISC DESIGN AND ARMS

With its 400mm diameter discs and its small notches, the ability to work in crop residues is complete! Disc arms fitted with polyurethane blocs on a cross-shaped tube gives reactivity to move over obstacles.

2 LOW POWER REQUIREMENT

The weight of this compact machine is close to the tractor. The small-notched discs as well as the large diameter rollers make it low power-consuming.

3 RELIABILITY

The heavy-duty frame is specially designed and adapted to work at high speed. In addition, the cross-shaped tube maintains the working discs thanks to long lifetime elastomer blocks.

4 NO MAINTENANCE

There is no maintenance on polyurethane blocks as well as on the disc bearings as they are lubricated for life.

5 SIDE DEFLECTORS FOR A PERFECT FINISH

To always obtain a smooth finish between two passes, the 1020 series disc cultivator is equipped with lateral deflectors. Mounted on a parallelogram, they ensure the soil flow is channeled.



HR 1020 series 1030 series 1040 series

LOOKING FOR THE PERFECT SEEDBED IN ALL CONDITIONS?

EVERYONE CAN PERFORM EASILY

It is nowadays possible to adapt the machine in real time to the working conditions thanks to the hydraulic settings. With the new KUHN HR range, you will find the appropriate model as well as the adapted equipment you need for each use.

With a working width from 3 to 4 meters, these power harrows have been set up to work perfectly in combination for each farmer.



EASILY ADJUSTABLE: HR 1020 SERIES

Designed with manual **working depth and levelling bar** adjustment settings, the power harrows of the HR 1020 series are intended for tractors up to **180 to 200hp**.



FLEXIBILITY AND RELIABILITY: HR 1030 SERIES

The HR 1030 requires power up to **240 to 260hp**. It ensures more flexibility as the removable deflector provides maximum reliability in **stony conditions**.

The settings of both levelling bar and working depth are manually or **hydraulically** adjustable (KSL14).



ADAPTED FOR HIGH HORSE POWERS:

HR 1040 SERIES

The HR 1040 series is fitted with a high capacity gearbox to perform in the hardest conditions. This machine is intended for powerful tractors from 300 to 320hp.

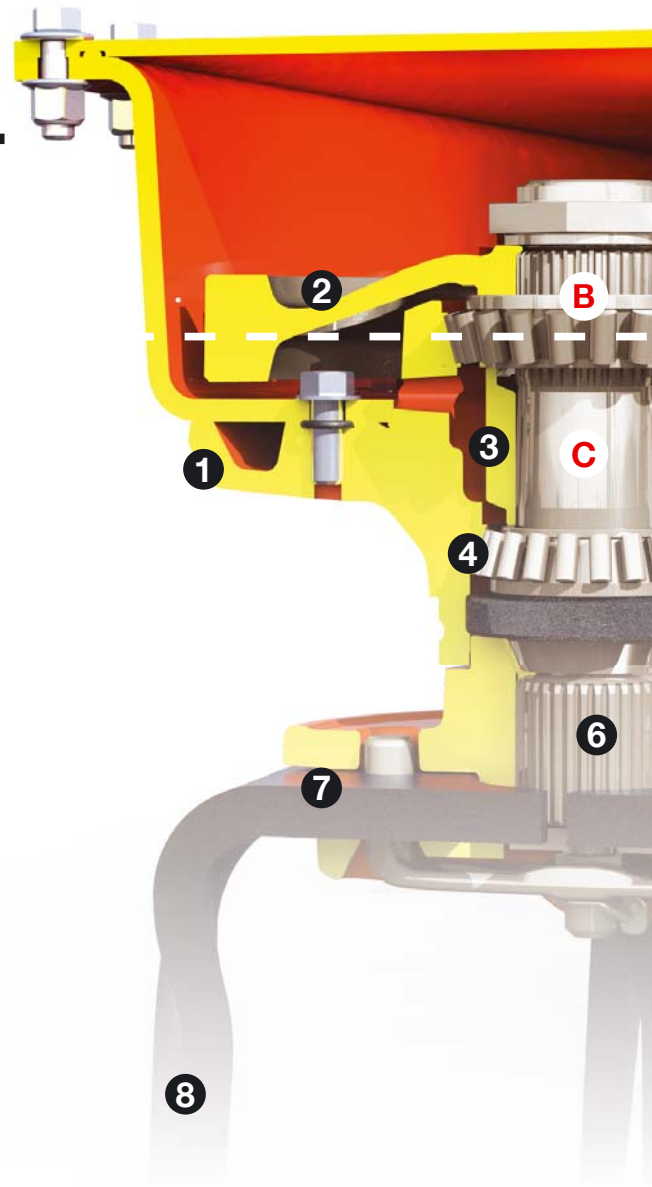
HR	OIL COOLER	LEVELLING BAR SETTINGS	WORKING DEPTH SETTINGS
1020 SERIES 180 to 200hp	-	Manual or Hydraulic	Manual
1030 SERIES 240 to 260hp	-	Manual or hydraulic	
1040 SERIES 300 to 320hp	standard	Hydraulic	

ROBUST, RESISTANT, RELIABLE... SIMPLY A KUHN ROTOR!

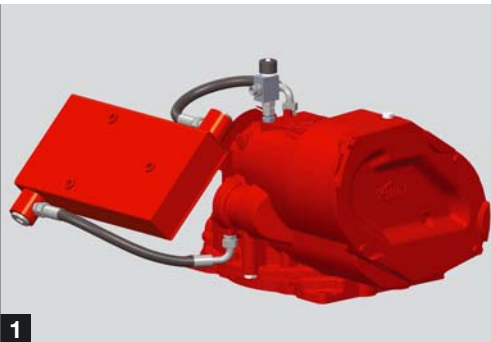
1. Maintenance-free highly rigid trough: 8mm thick trough made from fine grain high-tensile steel. It contains semi-liquid grease, which ensures lifelong lubrication of pinions and gearwheels. O-rings and lip joints ensure sealing for a longer service life.

2. No gearwheel overhang: Convex treated and forged steel gearwheels so that the drive forces (A) are transmitted at the centre of the upper roller bearing (over-dimensioned) without creating an overhang. High capacity shaft guidance and torque transmission capability thanks to the important spline length in contact with the shaft (B).

3. No maintenance on bearings: Large dimension conical roller bearings are always perfectly aligned in a one-piece cast housing not subject to distortion. Factory preloaded with a calibrated spacer (C) for increased distance between bearings, no further adjustments are required.



ENSURED RELIABILITY



1. HIGH CAPACITY GEARBOX:

The central gearbox is equipped with an **oil cooling system** on 1040 series. The integrated pump and additional oil tank will cool the oil which will be then re-injected it in the gearbox.

2. STONE DEFLECTORS

In stony conditions, V-shape deflectors protect the central beam from impacts. Fixed by **bolts**, they are easily **removable** to work deeper and faster.

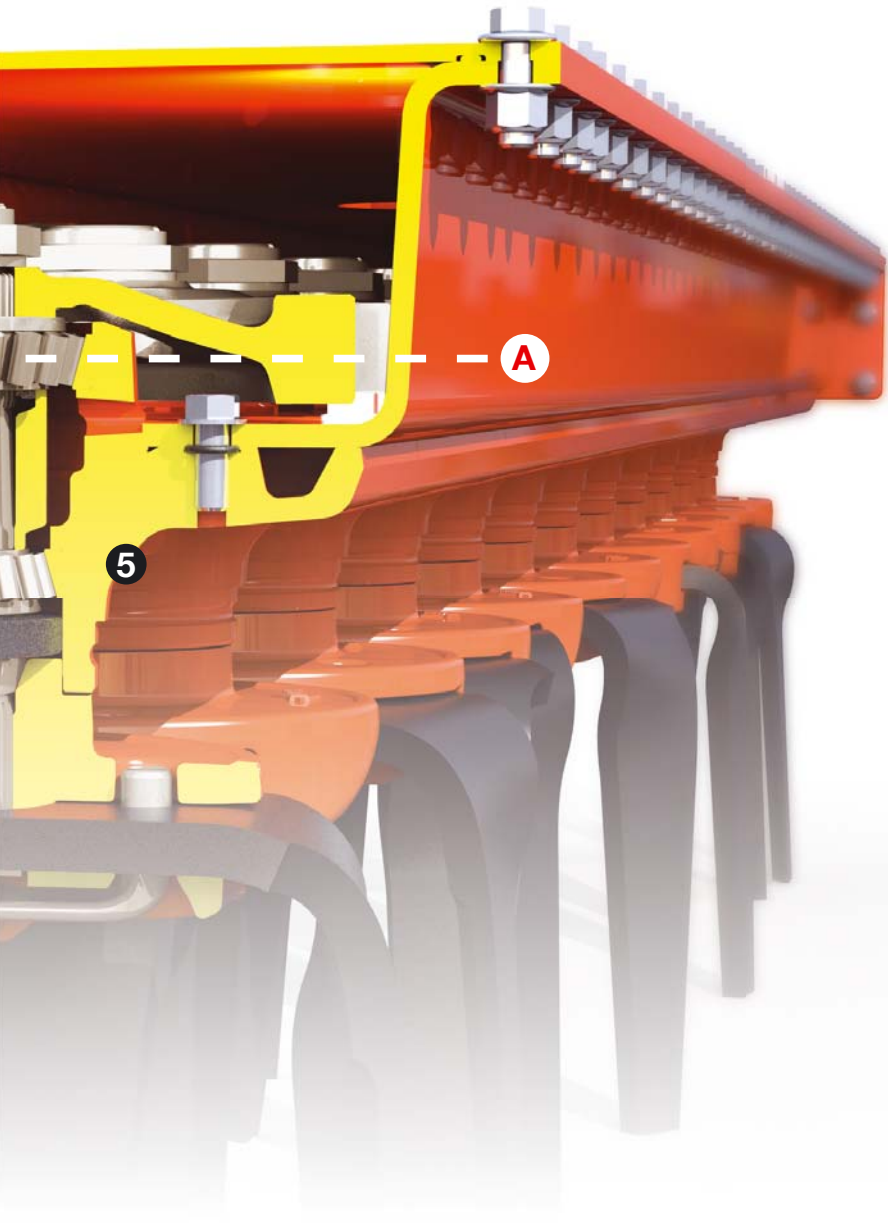
3. HYDRAULIC SELECTOR: KSL 14 OR ISOBUS

There is only one double acting control device to manage:

- Rotor working depth
- Levelling bar working depth
- Lifting of the coulter bar
- Coulter ground pressure

4. LARGE HEADSTOCK AND STRONGER DRIVE

Hitch categories **3 and 4** headstock type, possible for **Quick hitch cat. 4** (adapted for large tractors). There are two positions possible to bring the machine closer to the tractor. The central gearbox is offset rearwards to **reduce the angle with the PTO**.



4. Perfect bearing hold and gear case protection: The 28mm thick cast iron housings ensure perfect bearing and trough protection against wear and distortion.

5. Reinforced sealing: A cassette seal provides very efficient protection against bearing pollution.

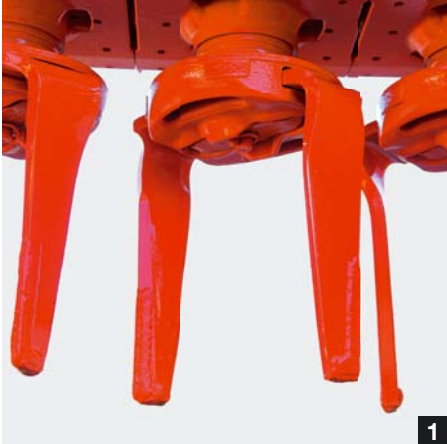
6. No play on the spline level: Rotor shafts with rolled splines are obtained by metal compression (no milling). Perfect connection with the shaft thanks to the conical centring of the blade holders (KUHN patent), preventing play on the spline level.

7. Round and flat blade holders: shape for smoother operations with less lateral soil pushing, resulting in less power consumption.

8. FAST-FIT blades as standard: long, straight blades (18mm thick, 335 mm long) with quick-release system ensure high quality work at low power requirement.

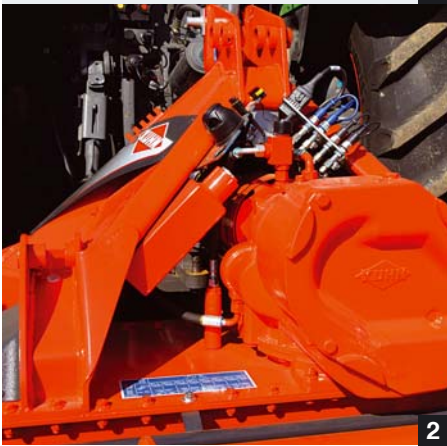


EVERYTHING FOR FINE TILTH



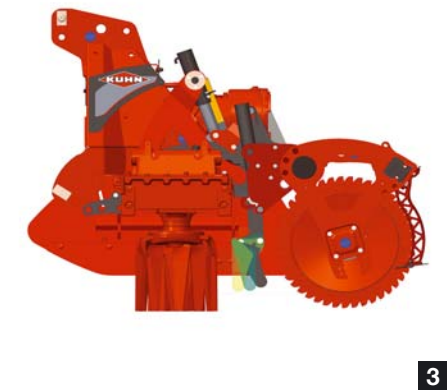
1 SPECIFIC LONG STRAIGHT BLADE SHAPE

This design helps create perfect fine tilth even when working down to 20cm. The 1040 series feature blades with a specific length of 335mm to perform in the hardest conditions.



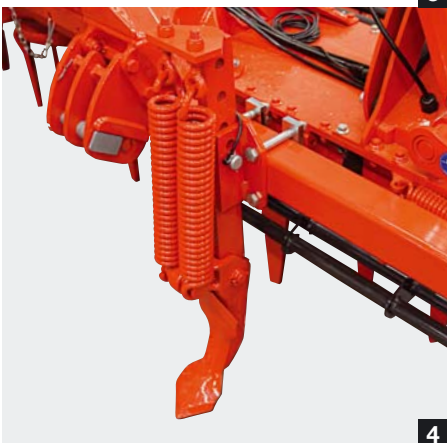
2 ADAPTABLE ROTOR DRIVE SPEED

Thanks to the duplex gearbox, you can adapt the rotor speed to the soil conditions. It is possible to set the speed at up to 539rpm to achieve a high quality seedbed in very hard conditions.



3 LEVELLING BAR ADJUSTMENT

Hydraulically adjustable from the cab, the levelling bar depth is always in accordance with field conditions. Fitted on the roller frame, there is no need to set it after adjusting the working depth.



4 TRACK ERADICATORS

Optional track eradicators break up and level the compacted soil behind the tractor wheels.



LOW POWER REQUIREMENT



SPECIFIC LONG STRAIGHT BLADE SHAPE

This design helps create perfect fine tilth even when working down to 20cm. The 1040 series feature blades with a specific length of 335mm to perform in the hardest conditions.



ADAPTABLE ROTOR DRIVE SPEED

Thanks to the duplex gearbox, you can adapt the rotor speed to the soil conditions. It is possible to set the speed at up to 539rpm to achieve a high quality seedbed in very hard conditions.



SIDE DEFLECTORS

Deflectors are longer to ensure a perfect finish between two passes.

The side deflectors are quick and easy to set up with a bolt release.

Fitted on a double arm to ensure the best support.

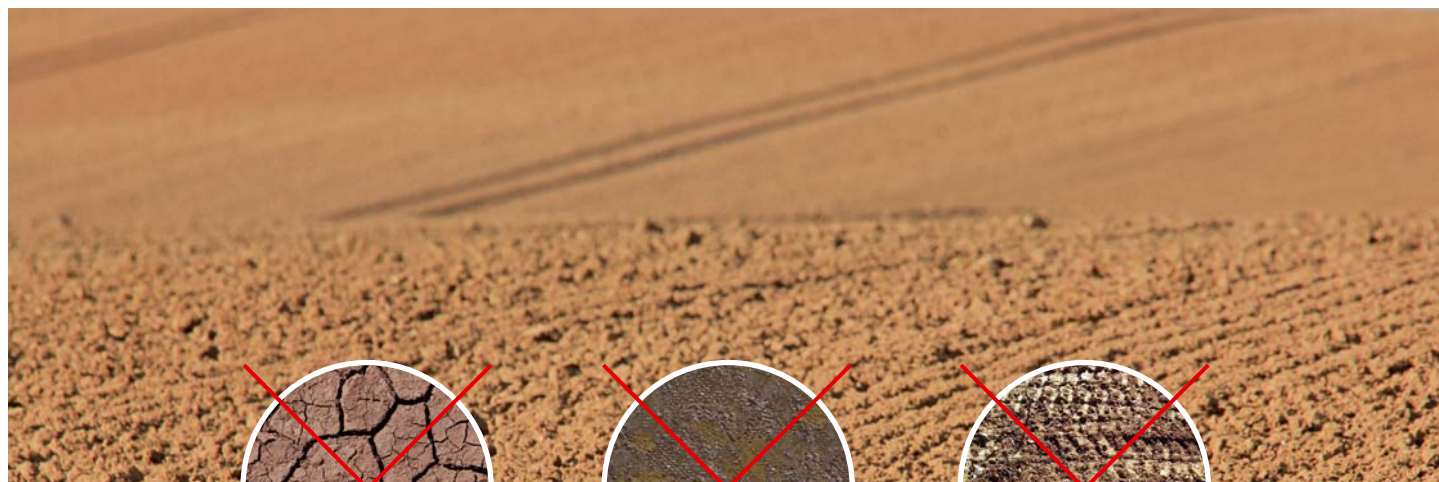
A LARGE CHOICE OF ROLLERS TO MEET YOU

WHY RE-COMPACT THE SOIL?

The first function of the roller is to improve soil/seed contact. It allows levelling and reconsolidating the soil, breaking clods and better controlling the working depth.

The roller leaves behind consolidation in strips, promoting water absorption and soil respiration.

It is very important to choose the right roller adapted to the soil-climate context of the region.



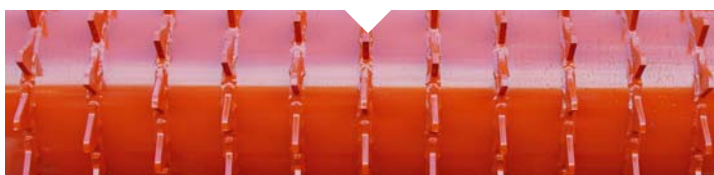
STEELLINER

This furrow roller is highly appreciated by users also in solo use. With **550mm diameter**, it provides very **good rotation and carrying capacity**. It creates a rough surface with a high share of fine soil behind, thus **reducing the risk of capping**. This is true for dry, hard ground as well as in more difficult and wet conditions. It is consequently a **versatile** roller.

The external diameter of this roller measures **590mm**.

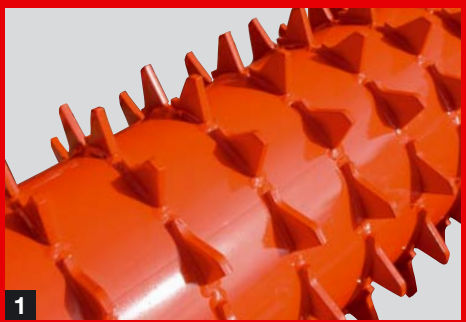
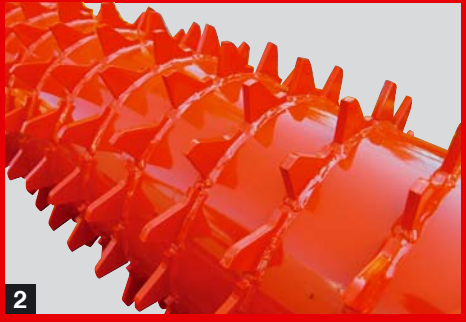


It requires less traction power as it associates good performance by breaking the clods with a large diameter. In addition, the MEGAPACKER roller is **perfectly adapted to solo working conditions as well as drill combination use**.

MEGAPACKER



R NEEDS

1. MAXIPACKER 2. MEGAPACKER

Soil type	Type of roller	Outside diameter (mm)
Clay-limestone Clay-silty Versatile use		535
Light Heavy clay Versatile use		590
Light Heavy and dry clay Versatile use Reconsolidating on the furrow		550
Light Clay Reconsolidating on the furrow		592

3. STEELLINER 4. PACKLINER

SEEDING ANY FIELD...



VENTA 1020

The VENTA 1020 series double disc coulters bar ensures full precision. Made of reliable and adaptable features, this model is definitely designed to seed in difficult conditions. With its large hopper capacity, it brings peace of mind. Its versatility and adaptability allows seeding all seed types with high precision.



WE KNOW HOW A METICULOUS JOB SEEDING CAN BE...

Your working environment changes every time you start seeding in a new field, a new crop, after a change in weather... This is why KUHNS presented adjustments directly accessible from the cab. In the past, setting the machine was time consuming to obtain a perfect result. Now, you will no longer need to worry about it! In fact, a simple button at the back of the machine enables you to launch a sequence for seed application rate adjustments. The electrical drive of the metering unit facilitates the seeding rate modulation.

You will also be satisfied by the centralized adjustment of seeding depth and covering harrow pressure. The seed drill is mounted on the roller frame and perfectly follows the ground without the soil preparation tool affecting the sowing depth.

IN ANY CONDITIONS



VENTA 1030

VENTA 1030 series is equipped with SEEDFLEX seeding units. The seedbed preparation is under control, which enables VENTA 1030 seed drills to work in heavy conditions. As we are very concerned about your comfort and your results, this machine is easily adaptable to all working conditions directly from your cab.



VENTA 1020 series 1030 series

THE BENCHMARK FOR RELIABILITY AND

Centralized metering by volumetric fluting: The proven KUHN VENTA system is known for its simple design and precise metering, resulting in accurate and uniform application rates from the smallest to the largest seeds. Seeds are transferred pneumatically for even distribution in the distributor.

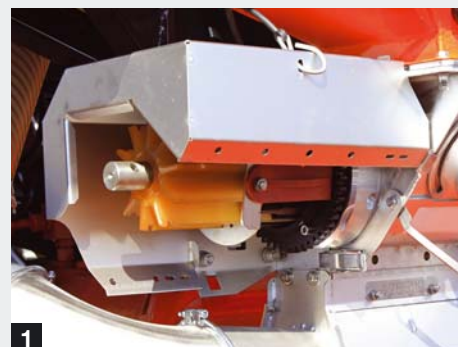


PRECISION



1. METERING UNIT

The metering unit is made of **large splines** for large seeds (wheat, barley, peas, beans...) with integrated **small splines** for small seeds (oil seed rape, alfalfa, clover ...). It is easy to extend the crop rotation range.



2. DISENGAGEABLE AGITATOR

The agitator can be **disengaged easily** if necessary. Its role is to ensure a regular seed flow at the entrance of the distribution unit.



3. ELECTRIC METERING UNIT DRIVE

It offers the possibility to change the seed application **rate "on-the-go" from the cabin** manually or per GPS. No maintenance is required for this reliable gear drive system.



4. RADAR SIGNAL

The radar fitted on the seed drill gives a **precise speed signal**.



5. SPECIAL APPLICATIONS

It is possible to **shut off manually** every **other row** for special applications.



EASY SEED RATE CALIBRATION

CCI 1200 and CCI 50 ISOBUS terminals guide you comfortably through the **calibration process**. One calibration **button** close to the metering unit reduces the number of times you have to climb into the tractor cab.

When working at night, the **metering unit and hopper LED lights** can be switched on to ensure **precise** work at any hour of the day.

DOUBLE DISC COULTER BAR

DESIGNED TO SEED IN DIFFICULT CONDITIONS

Cultivation techniques are moving towards minimum tillage. Being versatile, disc coulters are the choice for conservation agriculture. Whether you are seeding in plant residues or on ploughed land, they perform in both conditions!

With coulters pressures reaching 35kg, the discs are hardly affected by uneven ground and speed of seed delivery is maintained, even in difficult conditions. Featuring manual or hydraulic pressure adjustment, they are also fitted with internal disc scrapers as standard.

The optional press wheels allow constant seed depth in very uneven ground. In damp and sticky conditions, however, the wheels can be raised or fully removed without the need of tools.

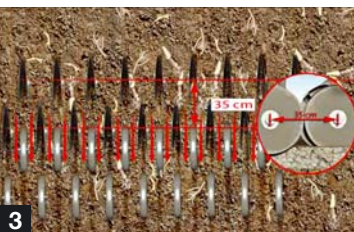
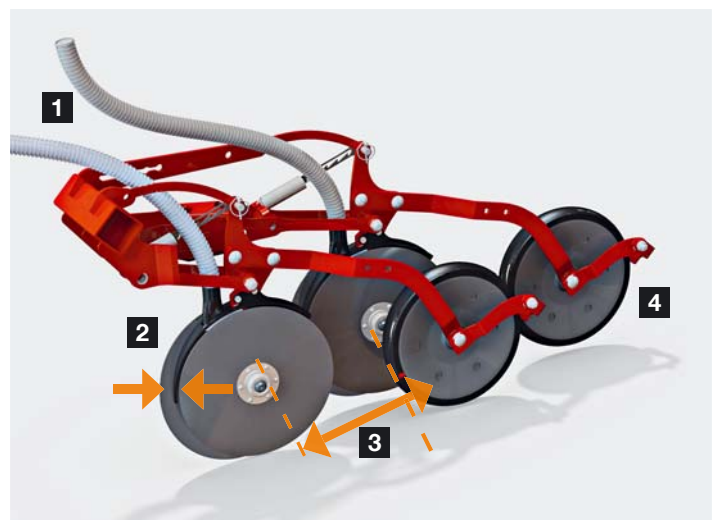


Fitted on a parallelogram, the covering harrow is equipped with universal trailing tines adjustable in pressure and angle. In this way, it can adapt to each soil type and any amount of **crop residues** to ensure a perfect seedbed finish.

SEEDFLEX

THE PRECISION COULTER BAR FROM 1 TO 15 KPH

With the SEEDFLEX coulters bar equipped with widely offset double discs of which each pair is mounted on a parallelogram, you can both seed fast and accurately. These maintenance-free units perform well in most versatile soil conditions, whether in ploughed or min-tilled land. Subsequent press wheels control seeding depth and ensure dynamic germination of the seeds.



Seeding depth is respected also at high speeds:

- seeding unit mounted on parallelogram,
- depth control wheel for each row.

Improved penetration in all soils:

- high offset of the double discs for clean furrow opening,
- small disc opening angle to avoid soil spraying and to facilitate furrow closing.

EXCLUSIVE

Easier passage in clayey soil and in the presence of plant debris:

- large offset of 35 cm between the two coulters bars.

Promoting good soil/seed contact:

- depth control/press wheels row by row to control seeding depth and to ensure dynamic germination of the seeds.

SEED DRILL ON ROLLER FRAME



FOR PERFECT GROUND FOLLOWING....

There is no influence of the soil preparation tool on the seeding depth!
This way there is no need to readjust the seeding depth when adjusting the power harrow working depth.

HYDRAULIC TOP LINK

The seed drill combinations are conceived with the possibility to work with the power harrow without seeding. The **top link** can be **extended or retracted**, bringing the weight closer to the tractor.



PATENT



EVERYTHING UNDER CONTROL

KUHN developed a chassis with an **“M” shape** design.

This **M-shaped patented** frame shape improves the **visibility**, allowing you to directly view the **seeding units** and make sure that everything is working well.

LARGE HOPPER



HIGH CAPACITY, HIGH AUTONOMY

Work longer with the new hopper capacity.

Machine width	Hopper capacity
3 m	1,500 l / 1,800 l
3.5 m	1,800 l
4 m	1,800 l

PRACTICAL REFILL

The large opening dimensions of the hopper provide the possibility to refill it with big bags from the side.

The access is easy via steps and a wide platform.

In addition, the metallic cover with sealing protects seeds from dust and rain.

A further benefit, a level sensor positioned in the hopper moves with the seed level for precise information on the remaining volume at all time.

EASY METERING UNIT ADJUSTMENT

Find the button to launch the metering unit calibration (start and stop) at the back of the machine.




Very easy, a unique handle allows you to adjust the seed application rate.



ISOBUS CERTIFIED SEED DRILL

The new CD/HR VENTA drill combination can be managed by the CCI 50, CCI 1200 or any other AEF certified terminal. Very easy to understand and to handle, the functionalities needed UT, TC-BAS and TC-SC are AEF certified.

This means that they are compatible with other AEF certified electronic solutions. Stay connected!

AEF CERTIFIED FUNCTIONALITIES	DEFINITION
	<p>The capability of operating an implement with any terminal and using one terminal for operating different implements.</p>
	<p>Describes the documentation of total values that are relevant for the work performed. The implement provides the values. For the data exchange between home PC and terminal the ISO-XML data format is used.</p>
	<p>Automatic switching of sections, as with a sprayer or seed drill, based on GPS position and desired degree of overlap.</p>



CCI 50

The CCI 50 universal terminal is the fruit of the CCI co-operation. This universal terminal enables reducing the number of terminals in the tractor cabin to exactly **ONE**.

Because this is an efficient solution to minimize stress and reduce the number of handling errors to a minimum. This terminal is also certified by the Agricultural Electronics Foundation (AEF).



Fully compatible with?

With all other Agricultural Electronics Foundation (AEF) certified CCI terminals, including the CCI 200. It can therefore operate different ISOBUS implements, both from KUHN and other manufacturers.

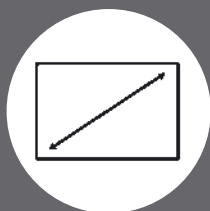
The user can find detailed information about compatibilities on the AEF database (www.aef-ibus-database.org).

THE PIONEERING CCI 1200



CCI 1200: PERFORMANCE, FLEXIBILITY AND VISIBILITY

This terminal features a 30.5cm / 12.1" touchscreen in tablet design that facilitates simultaneous display of various information essential for the driver. The anti-glare screen provides for excellent visibility even in sunny conditions.



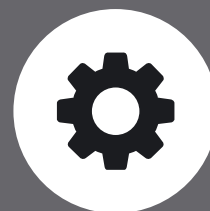
12.1" display size



Auto brightness



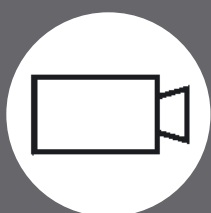
Multitouch



Central settings



Universal Terminal



Camera



Section Control



Task Control

ELECTRONIC MONITORING

MAKE YOURSELF COMFORTABLE

Blower speed, metering unit speed and tramlining are managed electronically.

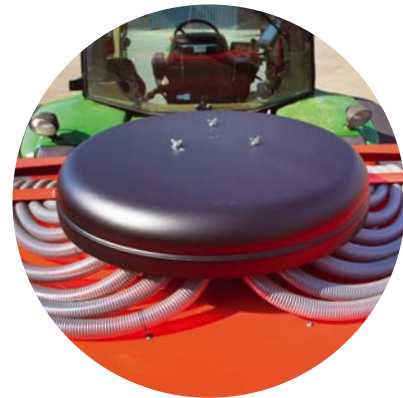
All electric and hydraulic connections are centralized on one connection plate.

KUHN Electronics
INNOVATIVE FARMING



WORKING POSITION SENSOR

The new working position sensor gives you a perfect field start and stop. Its sensitivity is adjustable for a quick detection when lifting or lowering the machine.



BLOWER DRIVE

Hydraulic blower drive is a standard equipment on both series. VARIO being optional for tractors with less hydraulic capacities. Also equipped with a flow adjustment valve as standard for safety in case of excessive oil flow.

Adapted to ISOBUS and NON-ISOBUS systems

This machine is provided with the ISOBUS connectivity, to work with the tractor interface or a specific ISOBUS terminal. The QUANTRON S2 version is also available for non-ISOBUS systems.



READY FOR TRAMLINING



PRE-EMERGENCE MARKERS

It is also possible to fit pre-emergence markers on the machine as optional equipment

SEED APPLICATION RATE REDUCTION

The VENTA seed drill is fitted with automatic seed application rate reduction when closing the tramlining valves. It reduces the rotating speed of the metering unit to best adjust the seeding rate when tramlining.

HALF-WIDTH SHUT OFF

KUHN also provides the electrical half-width shut off as optional equipment. It offers the possibility once again to save time and increase your precision for symmetric tramlining.

2X2 VALVES

Already equipped with 2 x 2 tramlining valves as standard the seeding machine VENTA can be fitted with up to 2 x 4 valves as optional equipment.



MORE FEATURES FOR YOUR BENEFIT



1. QUICK ADAPTATION TO THE SOIL PREPARATION TOOL

KUHN provides a patented fast coupling between the VENTA seed drill series and the soil preparation tools.

The VARIO blower pump is directly fitted on top of the central gearbox and all hydraulic and electric connections are centralized.

2. REDUCED MAINTENANCE AND CLEANING

The hopper is easy to clean with a fast emptying hatch. Also the divider head and seed transfer tubes are located on the outside of the hopper.

There are only 4 greasing points on the VENTA seed drill!

3. CENTRE OF GRAVITY CLOSE TO THE TRACTOR

The hopper is placed close to the tractor, which makes it easier for the tractor to lift the seeding combination.

4. FEATURES FOR WORKING AT NIGHT

To continue work at night even with bad visibility, LED-working lights are available as optional equipment.

For easier refilling and adjustments in these conditions, hopper and metering unit LED lights are standard.

Technical specifications

	VENTA 3020	VENTA 3520	VENTA 4020	VENTA 3030	VENTA 3530	VENTA 4030
Working width (m/ft)	3.00 / 9'10"	3.43 / 11'3" - 3.50 / 11'6"	4.00 / 13'1"	3.00 / 9'10"	3.43 / 11'3" - 3.50 / 11'6"	4.00 / 13'1"
Transport width (m/ft)	3.00 / 9'10"	3.50 / 11'6"	4.00 / 13'1"	3.00 / 9'10"	3.50 / 11'6"	4.00 / 13'1"
Hydraulic tractor requirements	1x SA with free return (hydraulic blower drive); 1x DA (hydraulic top link)					
Electric tractor requirements	1x 3-pin plug 25 A (seed drill power supply); 1x standard 7-pin plug (signalling)					
Hopper capacity (l)	1500	1800		1500 / 1800	1800	
Loading height approx. (m/ft)	2.13 / 7'					
Hopper opening dimensions approx. (cm/in)	185 x 135 / 72.8" x 53.1"	240 x 135 / 94.5" x 53.1"		185 x 135 / 72.8" x 53.1"	240 x 135 / 94.5" x 53.1"	
Cover	Metal with anti-dust seal					
Hopper sieve with locking	◆					
Seed drill fitted on the roller frame	◆					
Metering unit	Electrically driven, centralized, volumetric metering; with disengageable agitator and fast emptying hatch					
Number of valves	2x2 rows in symmetrical and asymmetrical rhythms					
Compatibility with treatment widths (m/ft)	12 - 15 - 18 - 21 - 24 - 27 - 30	12 - 16 - 24 (24 rows) / 21 - 28 - 42 (28 rows)	12 - 16 - 20 - 24 - 28 - 32	12 - 15 - 18 - 21 - 24 - 27 - 30	12 - 16 - 24 (24 rows) / 21 - 28 - 42 (28 rows)	12 - 16 - 20 - 24 - 28 - 32
Number of rows	20 or 24	24 or 28	28 or 32	20 or 24	24 or 28	28 or 32
Spacing between rows (cm/in)	12.5 / 4.92" or 15 / 5.9"	12.5 / 4.92" or 14.3 / 5.63"		12.5 / 4.92" or 15 / 5.9"	12.5 / 4.92" or 14.3 / 5.63"	
Seeding unit	Double disc over 2 rows 30 cm distant			SEEDFLEX: double disc coulters on parallelogram with press wheel, 2 rows with 35 cm distance in-between		
Hard coated scraper	-			◆		
Seeding depth adjustmen	Manually, centralized					
Electronic control	ISOBUS or QUANTRON S2: seed level, blower speed, metering unit rotation, daily and total ha counters					
Tramline control	Automatic management					
Electronic application rate adjustment	◆					
Pre-metering start/stop system	◆					
Application rate adjustment assistant	◆					

◆ standard equipment ◇ optional equipment - not available

Optional equipment: LED working lights; VARIO blower drive; pre-emergence markers; 2x4 tramlining shut-off valves; seed flow sensors; electrical half-width shut off.



Technical specifications

	HR 3020	HR 3520	HR 4020	HR 3030	
Type of tool	Activ				
Working width approx. (m/ft)	3.00 / 9'8"	3.44 / 11'3"	4.00 / 13'1"	3.00 / 9'8"	
Transport width (m/ft)	3.00 / 9'10"	3.50 / 11'6"	4.05 / 13'3"	3.00 / 9'10"	
Max. tractor power (kW/hp)	132 / 180 (at 1,000 min ⁻¹)	139 / 190 (at 1,000 min ⁻¹)	146 / 200 (at 1,000 min ⁻¹)	176 / 240 (at 1,000 min ⁻¹)	
Min. power requirement (kW/hp)	59 / 80	66 / 90	73 / 100	59 / 80	
Hydraulic tractor requirements					
Gearbox	Duplex				
PTO safety					
PTO speed (min ⁻¹)					
Rotor speed (min ⁻¹)	290 - 330 (after inversion)				
Number of disc rows					
Distance between disc rows (mm/in)					
Disc dimension (mm/in)					
Number of rotors / discs	10	12	14	10	
Working depth adjustment	◆ Manual ◇ Hydraulic				
Levelling bar	◆ Manual ◇ Hydraulic				
Side deflectors	Adjustable				
Attachment	C				
Weight approx. (kg/lbs)	with MEGAPACKER roller (590mm)	1611 / 3552	1706 / 3761	1871 / 4125	1721 / 3794
	with MAXIPACKER roller (535 mm)	1569 / 3459	1658 / 3655	1809 / 3988	1679 / 3702
	with PACKLINER roller 12.5 cm (592mm)	1685 / 3715	1779 / 3922	1956 / 4312	1795 / 3957
	with PACKLINER roller 15 cm (592mm)	1672 / 3686	1763 / 3887	1937 / 4270	1782 / 3929
	with STEELLINER roller 12.5 cm row spacing (550mm)	1659 / 3657	1762 / 3885	1921 / 4235	1769 / 3900
	with STEELLINER roller 15 cm row spacing (550mm)	1625 / 3583	1730 / 3814	1889 / 4165	1735 / 3825

◆ standard equipment ◇ optional equipment - not available

Optional equipment: hydraulic working depth and levelling bar adjustment on HR 1020 and 1030.

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HR 3530	HR 4030	HR 3040	HR 3540	HR 4040	CD 3020	CD 3520
Self driven power harrow rotors					two rows of notched working discs	
3.44 / 11'3"	4.00 / 13'1"	3.00 / 9'8"	3.44 / 11'3"	4.00 / 13'1"	3.00 / 9'10"	3.50 / 11'6"
3.50 / 11'6"	4.05 / 13'3"	3.00 / 9'10"	3.50 / 11'6"	4.05 / 13'3"	-	
183 / 250 (at 1,000 min ⁻¹)	190 / 260 (at 1,000 min ⁻¹)	219 / 300 (at 1,000 min ⁻¹)	226 / 310 (at 1,000 min ⁻¹)	234 / 320 (at 1,000 min ⁻¹)	162 / 220	176 / 240
66 / 90	73 / 100	66 / 90	77 / 105	88 / 120	96 / 130	110 / 150
2x DA (levelling bar, working depth adjustment)					-	
Duplex with oil circulation					-	
Cam type cut-out clutch					-	
1000					-	
296-463 (after inversion)					-	
-					2	
-					490 / 19.29"	
-					400 / 15.75" (diameter) - 5 / 1.97" (thickness)	
12	14	10	12	14	24	28
◀ Manual ▷ Hydraulic		Hydraulic			Manual	
◀ Manual ▷ Hydraulic		◀ (hydraulic adjustment)			-	
- with spring safety and double arm					On parallelogram	
Cat. 2, 3 and 4N with yokes					Cat. 2, 3N, 3	
1831 / 4037	2011 / 4433	1910 / 4211	2030 / 4475	2225 / 4905	1350 / 2976	1575 / 3472
1783 / 3931	1949 / 4297	1865 / 4112	1985 / 4376	2160 / 4762	1309 / 2886	1470 / 3241
1904 / 4198	2096 / 4621	1980 / 4365	2105 / 4641	2310 / 5093	-	
1888 / 4162	2077 / 4579	1970 / 4343	2090 / 4608	2290 / 5049	-	
1887 / 4160	2061 / 4544	1955 / 4310	2090 / 4608	2275 / 5016	1395 / 3075	1635 / 3605
1855 / 4090	2029 / 4473	1920 / 4233	2055 / 4530	2240 / 4938	1360 / 2998	1600 / 3527



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Tillage tool						
CD 3020	X			X		
CD 3520		X			X	
HR 3020 HR 3030 HR 3040	X			X		
HR 3520 HR 3530 HR 3540		X			X	
HR 4020 HR 4030 HR 4040			X			X

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