



Rigid power harrows
HRB 102/103 - HR 104/1004
HR 1020/1030/1040





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HRB **HR**

Rigid power harrows

PERFECTING SEEDBED PREPARATION IN ALL CONDITIONS

PREPARING THE SEEDBED MEANS BREAKING UP CLODS AND MIXING ORGANIC MATTER INTO THE SOIL, BEFORE LEVELLING AND TAMPING IT ALL. THE AIM IS TO CREATE AN ENVIRONMENT THAT IS FAVOURABLE FOR THE ROOTS OF THE CROP TO DEVELOP SO THAT THEY CAN DRAW IN THE ESSENTIAL NUTRIENTS FROM THE SOIL. KUHN'S RIGID POWER HARROWS ARE AN EFFICIENT SOLUTION THAT WILL ALLOW YOU TO MEET THESE OBJECTIVES!



A ROBUST DESIGN

KUHN power harrows are renowned for being robust, reliable and long-lasting. They are designed to reduce downtime and maintenance costs with cleverly designed rotor, large frame, ductile cast-iron gearbox, etc. So many great features that ensure a long service life.

THE QUALITY YOU NEED

The DUPLEX gearbox makes it possible to adapt the speed of the rotors to working conditions and the desired result. A wide choice of tines, rollers, and other equipment also allows you to adapt the tool to diverse conditions.

USE SOLO OR COMBINED

KUHN's rigid power harrows can be used solo or in combination with a seed drill. The seed drill fits onto the power harrow's roller directly to form a compact combination.

HRB 102 / 103 & HR 104 / 1004 POWER HARROWS...

HRB 102 / 103 and HR 104 / 1004 power harrows can work solo or in combination with a seed drill. With working widths from 2.5 to 4 m, they are suited to tractors with maximum power ranging from 140 to 250 hp, depending on the model. They can be equipped with an optional hydraulic rear linkage device and PTO output shaft when working with a precision seed drill.



MAXIMUM POWER

		Maximum power (kW/hp)			
		103 / 140	118 / 160	139 / 190	184 / 250
Working width (m)	2.50	HRB 252 D			
	3.00	HRB 302 D	HR 303 D	HR 304 D	HR 3004 D
	3.50		HRB 353 DN		HR 3504 D
	4.00			HR 404 D	HR 4004 D

CAN BE USED IN COMBINATION WITH SITERA AND VENTA 100 SERIES SEED DRILLS

Light and compact, the seed drills from the SITERA 100 and VENTA 100 range, combined with the power harrows from the HRB 102/103 or HR 104/1004 ranges, have been designed to work with small tractors. Thanks to their integrated attachment system, the machine's center of gravity is close to the tractor and the overhang is limited. The seeding bar is guided by the roller for excellent ground following and constant seeding depth whatever the terrain.



SEEDING UNITS AVAILABLE

		SUFFOLK COULTERS		DISCS		SEEDFLEX
		In 2 rows	In 3 rows	Single discs	Double discs	SEEDFLEX 100
						
Working width (m)	3.00	SITERA 310	VENTA 310	SITERA 320 / VENTA 320	SITERA 320D	SITERA 330 / VENTA 330
	4.00		VENTA 410	VENTA 420		

HR 1020 / 1030 / 1040 POWER HARROWS...

HR 1020 / 1030 / 1040 power harrows are designed to work solo or in combination with a seed drill. With working widths from 3 to 4.5 m, they are suited to tractors with maximum power ranging from 180 to 320 hp, depending on the model. They can be equipped with an optional hydraulic rear linkage device when working in combination with a precision seed drill.



MAXIMUM POWER

		Maximum power (kW/hp)									
		132 / 180	139 / 190	146 / 200	176 / 240	183 / 250	190 / 260	197 / 270	219 / 300	226 / 310	234 / 320
Working width (m)	3.00	HR 3020			HR 3030				HR 3040		
	3.50		HR 3520			HR 3530				HR 3540	
	4.00			HR 4020			HR 4030				HR 4040
	4.50							HR 4530			

CAN BE USED IN COMBINATION WITH SITERA, VENTA AND BTF 1000 SERIES SEED DRILLS

Seed drills in the SITERA 1000, VENTA 1000 and BTF 1000 ranges fit directly onto the roller of KUHN power harrows in the HR 1020 / 1030 / 1040 ranges. This configuration provides excellent ground following and reduces overhang. The settings are quick and easy. It takes less than a quarter of an hour to change the tillage tool to adapt the cropping method to your needs.



SEEDING UNITS AVAILABLE

		SUFFOLK COULTERS		DISCS	SEEDFLEX
		In 2 rows	In 3 rows	Double discs	SEEDFLEX 1000
Working width (m)	3.00	 SITERA 3010	 VENTA 3010	 SITERA 3020 / VENTA 3020	 SITERA 3030 / VENTA 3030 / BTF 3030
	3.50		VENTA 3510	VENTA 3520	VENTA 3530
	4.00		VENTA 4010	VENTA 4020	VENTA 4030 / BTF 4030

WORK SAFELY

Seedbed preparation tools must be capable of running smoothly with no interruptions, for as long as is required. To cope with the most demanding working conditions, KUHN's power harrows are made from ultra-resistant materials and equipped with many protective devices which reduce downtime.



A robust design

KUHN rigid power harrows are compatible with cat. 2, 3N and 3 hitching devices. The triangular hitch frame absorbs shocks and vibrations during work. The large central chassis is highly resistant to wear.

Drive line protected

The entire drive line is protected against overloads by a cam-type cut-out clutch. The torque limiter comes as an option for power harrows in the HRB 102 range which are equipped with friction clutches as standard.

Integrated oil cooler

The central gearbox on HR 1040 models is equipped with an oil cooler to protect against overheating. It is also dust resistant which means the oil lasts longer and less oil changes are required. The oil cooler is activated automatically with the PTO, no operator action required, thanks to the integrated pump!

HRB 102 | 103 **HR 104 | 1004**

QUICK AND EASY SETTINGS

For optimum working quality, the machine has to be quick to adjust. It takes just a few minutes to adjust the working depth and levelling bar on power harrows in the HRB 102/103 and HR 104/1004 ranges by changing the position of the pin in the multi-hole plate.



HR 1020 | 1030 | 1040

ADAPTING TO WORKING CONDITIONS IN REAL TIME

Working-depth and levelling-bar adjustments on power harrows in the HR 1020/1030 ranges can be either by centralised manual system or hydraulic, directly from the tractor cab. Hydraulic settings come as standard on power harrows in the HR 1040 range. For an optimum experience, a hydraulic unit with KSL 14 function selector is available as an option. With this option, control working depth, the levelling bar, and seeding-bar lift hydraulically with a single valve.



A PERFECTLY PREPARED SEEDBED



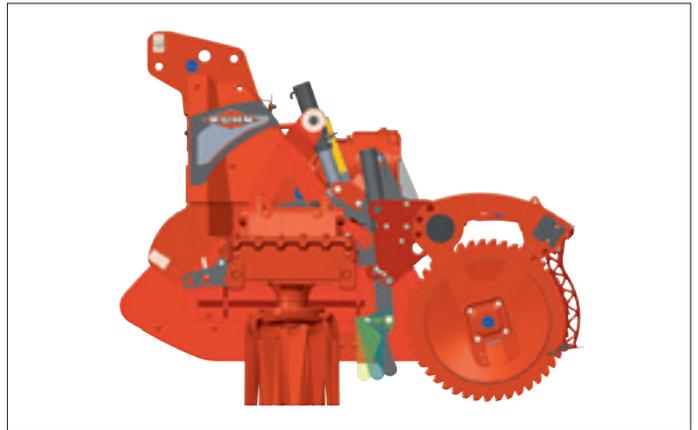
Optimum crumbling

The DUPLEX gearboxes on KUHN's rigid power harrows have changeable gearwheels so the speed of the rotors can be adapted to working conditions and desired results. A wide range of rotation speeds enables adaptation to many different conditions.



Efficient tamping

KUHN power harrows are compatible with a wide choice of different-shaped and sized rollers. Using a harrow solo or in combination with a seed drill to prepare your seedbed in light, heavy, dry, or wet soils, KUHN has the solution!



A perfect finish

The side deflectors with elongated design ensure a perfect finish between two passes. They are quick and easy to adjust with a sliding mechanism and have a spring safety system. They are fitted to a double arm on HR 1020, 1030 and 1040 models for optimum hold.

Adapted levelling

The angle of the levelling bar on HR 1020, 1030 and 1040 power harrows can be adjusted to adapt to working conditions and to manage fuel consumption more easily. There are three positions: close to the rotors for intensive work in very heavy soils, tilted to the rear for light seedbed preparation, and an intermediate position.



1 No overhang

The convex shape of the forged and treated steel gearwheels eliminates any roller-bearing overhang. The large-depth splines and large-diameter gearwheels provide efficient torque transmission.

2 Robust and maintenance-free beam

The design of the gearbox in high tensile steel and the gearwheels and bearings being lubed-for-life, makes KUHN rotors highly resistant and maintenance-free. HR 1030 and 1040 machines feature joined bearings along the entire width of the beam which protect against impacts and wear.

3 Maintenance-free bearings

Large conical roller bearings are preloaded with a calibrated spacer. They are aligned in the housing which creates permanent contact and no play.

4 Perfect bearing hold

The single-piece cast-iron housings hold the bearings in place, protecting them against wear and deformation. A cassette seal provides a protective barrier against any type of pollution.

5 No spline play

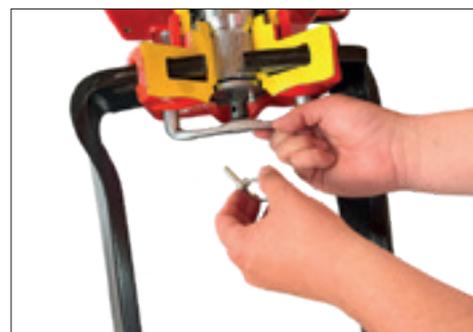
The rotor shafts feature rolled splines obtained by cold pressing. The connection with the shaft is perfect: the conical centering of the tine holder prevents any play between the tine holder and the shaft.

6 FAST-FIT tines

The bevelled and twisted shape of the tines crumbles the soil beautifully. Replacing them takes no time at all with the FAST-FIT system.

A WIDE CHOICE OF TINES FOR OPTIMUM CRUMBLING

Working conditions vary depending on the cropping method, the crop planted, the type of soil, etc. With a wealth of know-how and expertise, KUHN has a wide choice of tines to offer: OPTIMIX, STANDARD, DURAKUHN, DURAKARB. The FAST-FIT system saves time when replacing the tines. It takes just a few minutes to change all of the tines on a power harrow.



STANDARD tines

All of KUHN's rigid power harrows are equipped with STANDARD tines, as standard. The bevelled and twisted shape of the tines crumbles the soil beautifully while reducing the power requirement. They are ideal for preparing the seedbed after the plough. For some specific crops, such as potatoes, there is a 50-mm-longer version.



OPTIMIX tines

HR 104, 1004, 1020 and 1030 machines can be retrofitted with OPTIMIX tines. Their «forward-action» angle loosens the soil effectively and mixes it with crop residues. These tines are very effective for preparing the seedbed after stubble cultivation, soil loosening, or on non-ploughed land.

DURAKUHN AND DURAKARB TINES: MORE THAN JUST A NAME

What is carbide? Tungsten carbide is a compound obtained from heating and compressing a mix of tungsten powder and carbon powder. It is one of the hardest materials, but also one of the most fragile. When mixed with cobalt it produces a very hard and wear resistant material. That's why it is often compared to diamond. It ensures exceptional results and longevity! KUHN develops all of its tungsten carbide parts in its own factories in France.



DURAKUHN tines: service life 3 times longer*!

KUHN's rigid power harrows can be equipped, as an option, with DURAKUHN tungsten carbide coated tines. This technology, obtained from carbide powder, increases the surface strength of the part, making it more resistant to impacts and wear for a longer service life. For the HR ranges, a 50-mm-longer version is also available.

**Compared to STANDARD tines.*



DURAKARB tines: service life 6 times longer*!

Power harrows in the HR range can be equipped with DURAKARB tines, as an option, with 136 mm tungsten carbide inserts. Their V-shaped profile ensures a large contact area between the inserts and the tine. Risk of breakage is considerably reduced. Embedded in the machined part of the tine, the inserts do not create any extra thickness that could require additional power.

**Compared to STANDARD tines.*

A WIDE CHOICE OF ROLLERS FOR EFFICIENT TAMPING

For light, heavy, dry, or wet soils, KUHN has the solution!

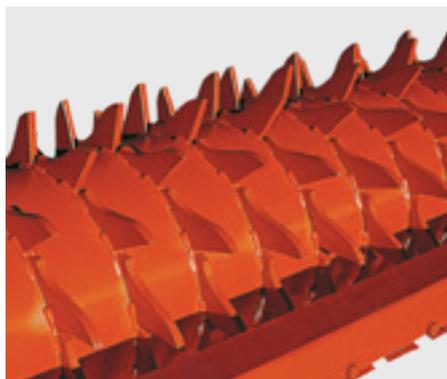


Compatible with

**HRB 102/103, HR 104/1004,
HR 1020/1030/1040**

MAXICRUMBLER

This is a light and cost-effective roller used to prepare the plot in spring and summer. The 520 mm diameter reduces soil build-up and requires low traction power. It is also highly resistant in stony conditions.

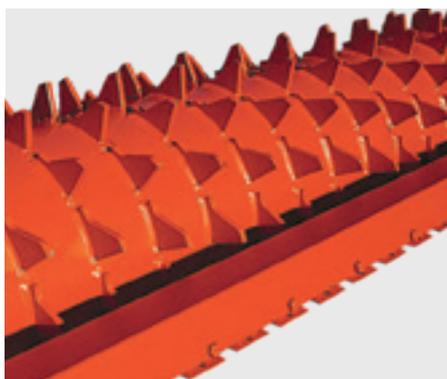


Compatible with

HRB 102/103, HR 104/1004

PACKER PK2

This 515 mm-diameter roller can work in all sorts of conditions but is particularly effective in clayey soils that tend to crack and harden during the dry season. It contributes to creating an ideal seedbed by tamping the soil down deep while loosening it on the surface.

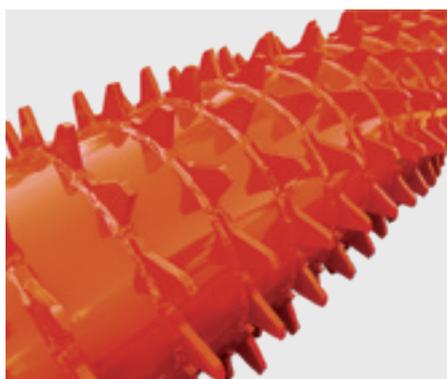


Compatible with

**HRB 102/103, HR 104/1004,
HR 1020/1030/1040**

MAXIPACKER

This all-rounder large-diameter roller (535 mm) reduces rolling resistance. Standard hard-coated scrapers increase service life, reduce maintenance, and improve roller cleaning in wet and sticky soil.



Compatible with

HR 1020/1030/1040

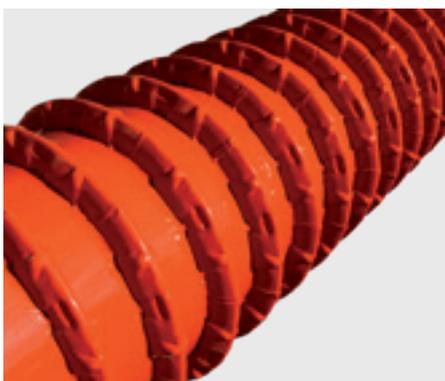
MEGAPACKER

This very large-diameter roller (590 mm) has excellent carrying capacity, especially when used in combination with a seed drill. It is easy to pull in light soils and ensures great soil consolidation. It is particularly recommended in chalky, chalky-clay and silt-clay soils.



Compatible with

**HRB 102/103, HR 104/1004,
HR 1020/1030/1040**



STEELLINER

This furrow roller tamps each seeding line with precision. With a diameter of 550 mm, it has very good rolling and carrying capacities. It works well in difficult and wet conditions and has an excellent crumbling capacity on dry, hard ground.

Compatible with

**HRB 103, HR 104/1004,
HR 1020/1030/1040**



PACKLINER

This large-diameter (592 mm) furrow roller tamps each seeding line with precision. It has a prismatic profile that is self-cleaning and creates a uniform furrow. It excels in light soil and is also adapted to soils with a high clay content.

TAKE ADVANTAGE OF THE EXTRA EQUIPMENT



Compatible with

**HRB 102/103, HR 104/1004,
HR 1020/1030/1040**

Track eradicators

Track eradicators are designed to loosen the ground compacted by tractor wheels. They are adjustable in height. You can choose between a traction bolt or spring safety system depending on your operating conditions and how stony your plots are.



Compatible with

HR 1020/1030/1040

Side discs

Optional side discs provide an optimum finish to the job. Highly recommended for tractors with wide tyres, they prevent marks between two passes to avoid ridges being created at the sides.



Compatible with

HR 1030/1040

V-shaped stone guards

V-shaped stone guards prevent stones from getting jammed between the tine holder and the beam. They also stop clods from passing over the rotors.



Compatible with

**HRB 102/103, HR 104/1004,
HR 1020/1030/1040**

Side markers

Power harrows can be equipped with side markers that trace a line in the soil to facilitate subsequent passes. Side markers are particularly useful when the harrow is coupled to a seed drill or seeding bar.



Compatible with

**HRB 102/103, HR 104/1004,
HR 1020/1030/1040**



Rear hydraulic linkage

The rear hydraulic linkage system, with lifting capacity of 2,300 kg, is available as an option on all rigid power harrows. A 3,300 kg high-capacity linkage system is also available. Cylinders and pivot pins are reinforced and fitted with bushes. This system is recommended for combinations with high-capacity seed drills and precision seed drills.

Technical specifications

		HRB 252 D	HRB 302 D	HRB 303 D	HRB 353 DN
Working width (m)		2.50	3.00	3.00	3.44
Overall width (m)		2.60	3.08	3.08	3.50
Max. tractor power (kW/hp)		540 min ⁻¹ : 73 / 100 1 000 min ⁻¹ : 103 / 140		118 / 160	
Min. tractor power (kW/hp)		37 / 50	44 / 60	51 / 70	59 / 80
Gearbox		DUPLEX central gearbox Rear PTO output shaft		DUPLEX central gearbox Rear PTO output shaft	
Safety system		◆ Friction clutch ◇ Cut-out clutch		◆ Cut-out clutch	
PTO speed (min ⁻¹)		540* / 1 000		540 / 750 / 1 000*	
Rotor speed (min ⁻¹)		540 min ⁻¹ : 221* / 289 1 000 min ⁻¹ : 410* / -		270* / 360	313* / 230
Number of rotors		8	10	10	12
Tines		◆ STANDARD tines ◇ DURAKUHN tines		◆ FAST-FIT tine attachment ◆ STANDARD tines ◇ DURAKUHN tines	
Weight (kg) with roller	MAXICRUMBLER (Ø 520 mm)	850	975	1 085	1 290
	PACKER PK2 (Ø 515 mm)	1 000	1 170	1 280	-
	MAXIPACKER (Ø 535 mm)	1 035	1 200	1 310	1 575
	STEELINER (Ø 550 mm)	-	1 325	1 435	1 725
	PACKLINER (Ø 592 mm)	-	-	1 455	1 770
Working depth adjustment		Manual		Manual	
Levelling bar adjustment		Manual		Manual	
Linkage		Clevis hitch - Cat. 2 (and 3N)		Clevis hitch - Cat. 2 (and 3N)	

◆ Standard ◇ Optional - Not available * factory fitted



KUHN PARTS



Designed and manufactured to rival time. KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.

	HR 304 D	HR 404 D	HR 3004 D	HR 3504 D	HR 4004 D
	3.00	4.00	3.00	3.50	4.00
	3.12	4.11	3.08	3.50	4.10
	139 / 190		184 / 250		
	59 / 80	73 / 100	59 / 80	66 / 90	73 / 100
	DUPLEX central gearbox Rear PTO output shaft		DUPLEX central gearbox Rear PTO output shaft		
	◆ Cut-out clutch		◆ Cut-out clutch		
	540 / 750 / 1 000*		1 000		
	270* / 360		230 / 313*		
	10	14	10	12	14
	◆ FAST-FIT tine attachment ◆ STANDARD tines ◇ DURAKUHN / DURAKARB / OPTIMIX tines		◆ FAST-FIT tine attachment ◆ STANDARD tines ◇ DURAKUHN / DURAKARB / OPTIMIX tines		
	1 100	1 470	1 195	1 400	1 580
	1 295	1 740	1 390	1 635	1 850
	1 325	1 790	1 420	1 685	1 900
	1 450	1 950	1 550	1 840	2 095
	1 470	2 000	1 570	1 885	2 145
	Manual		Manual		
	Manual		Manual		
	Clevis hitch - Cat. 2 (and 3N)	Clevis hitch - Cat. 2 and 3	Clevis hitch - Cat. 2 (and 3N)	Clevis hitch - Cat. 2 and 3	

KUHN SERVICES*

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* Not all services are available in all countries. ** except January 1, May 1 and December 25

Technical specifications

		HR 3020	HR 3520	HR 4020	HR 3030	
Working width (m)		2.95	3.45	4.00	2.95	
Transport width (m)		3.00	3.50	4.10	3.00	
Max. tractor power (kW/hp)		132 / 180	139 / 190	146 / 200	176 / 240	
Min. tractor power (kW/hp)		59 / 80	66 / 90	73 / 100	59 / 80	
Gearboxes		DUPLEX central gearbox				
Safety system		◆ Cut-out clutch				
PTO speed (min-1)		1 000				
Rotor speed (min-1)		291* / 336				
Number of rotors		10	12	14	10	
Tines		◆ FAST-FIT quick release tines ◆ STANDARD tines ◇ DURAKUHN / DURAKARB / OPTIMIX tines				
Weight (kg) with roller	MAXICRUMBLER (Ø 520 mm)	1 320	1 365	1 478	1 430	
	MAXIPACKER (Ø 535mm)	1 569	1 658	1 809	1 679	
	MEGAPACKER (Ø 590 mm)	1 611	1 706	1 871	1 721	
	PACKLINER (Ø 592 mm)	1 685	1 779	1 956	1 795	
	STEELINER (Ø 550 mm)	1 659	1 762	1 921	1 769	
Working depth adjustment		◆ Manual ◇ Hydraulic				
Levelling bar adjustment		◆ Manual ◇ Hydraulic				
Side guards		Adjustable (with spring safety and double support arms)				Adjust
Linkage		Clevis hitch - Cat. 2 / 3N / 3				

◆ Standard ◇ Optional - Not available * factory fitted



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HR 3530	HR 4030	HR 4530	HR 3040	HR 3540	HR 4040
3.45	4.00	4.50	2.95	3.45	4.00
3.50	4.10	4.55	3.00	3.50	4.10
183 / 250	190 / 260	197 / 270	219 / 300	226 / 310	234 / 320
66 / 90	73 / 100	80 / 110	66 / 90	77 / 105	88 / 120
DUPLEX central gearbox			DUPLEX central gearbox with oil circulation		
◆ Cut-out clutch			◆ Cut-out clutch		
1 000			1 000		
290* / 330			296* / 463		
12	14	16	10	12	14
◆ FAST-FIT quick release tines ◆ STANDARD tines ◇ DURAKUHN / DURAKARB / OPTIMIX tines			◆ FAST-FIT quick release tines ◆ STANDARD tines ◇ DURAKUHN / DURAKARB / OPTIMIX tines		
1 490	1 618	1 913	1 615	1 690	1 830
1 783	1 949	2 289	1 865	1 985	2 160
1 831	2 011	2 341	1 910	2 030	2 225
1 904	2 096	2 439	1 980	2 105	2 310
1 887	2 061	-	1 955	2 090	2 275
◆ Manual ◇ Hydraulic			◆ Hydraulic		
◆ Manual ◇ Hydraulic			◆ Hydraulic		
able (with spring safety and double support arms)			Adjustable (with spring safety and double support arms)		
Clevis hitch - Cat. 2 / 3N / 3			Clevis hitch - Cat. 2 / 3N / 3		

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