



Field and landscape shredders

VKM / BP 10 / BPR 10 / BP 100 / BPR 100 / BPR 100 PRO / BP 1000
BK / RM / BC 1000 / BCR 1000 / RMS / WS 320 BIO





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Field and Landscape maintenance shredders

A SHREDDER FOR EACH USE

REQUIREMENTS FOR SHREDDERS, INTENDED FOR AGRICULTURAL USE AND LANDSCAPE MAINTENANCE, DIFFER ACCORDING TO THE SHREDDED MATERIAL, PREVAILING CONDITIONS AND OPERATOR DEMANDS. IN THE VAST KUHN RANGE, YOU WILL FIND A MODEL FOR ALMOST EVERY SITUATION.



HIGH-QUALITY SHREDDING IS MOST IMPORTANT. Well-shredded crop residues and green spaces are a friend for your soil when fighting weeds, pests and diseases and for rapidly transforming organic matter into humus. This is best achieved, if the residues are shredded very finely, the working height stays uniform and the residues are spread regularly over the surface.

IMPECCABLE SHREDDING. A large diameter rotor, sufficient overlap between the tools and a high linear tool speed: If these three conditions are fulfilled, nothing stands in the way of superb shredding results. KUHN meets these criteria with its rotors, adding also the helical tool layout in order to increase the suction for an improved cut and even residue distribution over the soil.

WHY SHRED ?

On pastures and fields, shredders have multiple areas of operation and agronomic benefits. An adapted crop residue management is an integral part in today's agricultural production systems, especially in conservation agriculture, where crop residues are normally not ploughed under, but only incorporated superficially into the soil.

FINE SHREDDING AND UNIFORM DISTRIBUTION ARE THE KEY POINTS:

- to accelerate decomposition and conversion into humus,
- to provide favorable conditions for uniform germination of the subsequent crop,
- to control certain pests, diseases and weeds.





Maintain or improve pasture quality

Cattle pick out the best grass to feed on, leaving less attractive species on the pasture. If this low quality grass is not shredded, it will spread through seeds or vegetative propagation. This reduces pasture quality on the whole and consequently also animal productivity.



Effective destruction of cover crops

Shredding intermediate crops to weaken and destroy them before seeding the next crop is an environmentally friendly alternative to chemical treatment. Think in this regard also of environmental specifications and legal directives, both on regional and international level.



Supporting soil fertility

To improve soil fertility, incorporation of organic matter into the soil is the most important measure. The finer the residues are shredded the bigger is the surface area for microorganisms to attack and transform the organic matter into humus. Strong points for high humus content: improved capability to retain water and fix nutrients, reduced nutrient leaching, improved soil structure and stability, increased biological activity.



Ensuring uniform germination of the subsequent crop

Finely shredded and homogeneously distributed residues facilitate precise seeding of the subsequent crop. There shouldn't be many undecomposed maize stalks or cereal straw left that could hinder a regular germination and crop growth.



Don't let weeds in

Weeds migrate from field borders into the plot. Shredding the grassy strips along the edge of the field is a good preventive measure to limit the spread of brome grasses.



No home to pests and diseases

In close crop rotations with high shares of maize and wheat, pests and diseases find a wonderful playground to develop. Shredding is an effective instrument to destroy the maize stalks, which serve as winter retreats of pests such as the European corn borer. An accelerated decomposition, more over, ensures that no residues rest on the surface until the next wheat flowering to avoid the transmission of fusarium spores (see table below).

IMPACT OF TILLAGE MEASURES AND SHREDDING ON RELATIVE DON-CONTENTS (MYCOTOXIN ASSOCIATED WITH FUSARIUM) ON WHEAT.

DON (ploughing 100 %)	Shredding Ploughing	Shredding Rotavator	Semavator	Direct seeding	Shredding Direct seeding
1999 to 2011	100	146		315	
2003 to 2011	100	148	280	416	
2007 to 2011	100	149	255	533	222

MULTIPURPOSE SHREDDERS

A truly multipurpose range

WITH KUHN MULTIPURPOSE SHREDDERS, YOU HAVE A RANGE OF SHREDDERS SUITABLE FOR MAINTAINING PASTURES AND FALLOW LAND, BUT ALSO FOR DESTROYING INTERMEDIATE CROPS AND PLANT COVER.

	VKM	BP 10 BPR 10	BP 100 BPR 100	BP 100 PRO	BP 8300
Hitch type	Rear	Front or reverse drive (quickly changed on BPR)		Reverse drive	Front / rear
Main use	Brushwood, pastures, fallow land	Pastures, fallow land (for light work)	Brushwood, pastures, fallow land		Brushwood, pastures, crop residues
Models available	210 - 240 - 280 - 305	24* - 28 - 30 (*only on BP)	210** - 240 - 280 - 305 (** only on BPR)	280 - 305	8300 (can be used with BPR 100 PRO)



VKM 210 / VKM 240 / VKM 280 / VKM 305

Optimally manage pastures and grass regrowth in working widths from 2.09 to 3.03m.



BP 24 / BP 28 / BP 30 BPR 22 / BPR 24 / BPR 28 / BPR 30

The range for lighter jobs with both rear (BP) and reversible (BPR) versions with working widths from 2.10 to 3.03 m.



BP 240 / BP 280 / BP 305 / BPR 210 / BPR 240 / BPR 280 / BPR 305

The standard multipurpose KUHN shredders in rear (BP 100) and reversible versions (BPR 100) with working widths from 2.10 to 3.03m.



BPR 280 PRO / BPR 305 PRO

Designed for intensive work with tractors of high power requirements.



BP 8300

Two side-shredding units combined with a central unit, BPR 100 PRO, for a large working width of 8.30 m.

*All models are not available in all countries.
Please always check with your authorized dealer.*

EASY MANAGEMENT FROM GRASS TO BRUSHWOOD

VKM shredders are designed primarily for use in pastures and fallow land, but can also be used for shredding prunings. With the VKM, find an adaptable multipurpose shredder best suited to your needs

HIGH-QUALITY SHREDDING

The helical layout of tools on the VKM rotor is optimized for:

- smooth rotation without jolts,
- good suction for a clean cut,
- even distribution of shredded residues for improved decomposition.



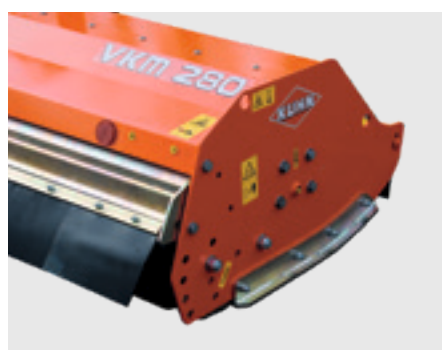
The reliability of the roller with removable ends

- Double row of ball bearings for increased longevity, perfect sealing through chicanes and greasing system.
- Roller fitted closest to the rotor for efficient ground hugging and self-cleaning by means of the shredding tools.



A compact unit

The VKM is equipped with an offset by sliding tube (mechanical as standard, hydraulic as option). This design allows the machine to gain in compactness with a centre of gravity close to the tractor



A «universal» design

The low construction with rounded edges, internal rotor bearings and smooth sides with no sharp edges facilitates shredding almost everywhere, including under trees and vines. It can also be equipped with raking tines for ligneous residues. With an adjustable rear hood, the shredding degree can be adapted to the amount of residues.

WHEN SHREDDING BECOMES EVERYDAY WORK

BP 10 and BPR 10 series shredders are designed for shredding all kinds of grassy areas, from managing weeds at the edge of fields to maintenance work on pastures or the upkeep of parks and gardens.

This multipurpose shredder is excellent value for money for individual crop and livestock farms and local authorities for daily shredding operations.

With their front and rear-mount options and lateral offset feature, BPR 10 series models are the perfect solution for diverse conditions and difficult-to-access corners.



DIFFERENT LINKAGES



BP 24 / 28 / 30: fixed linkage

With the central fixed linkage, the gearbox is always positioned at the centre of the machine. Hitch pins are supported at each end.



BP 24 / 28 / 30: shiftable linkage

The linkage frame can be shifted mechanically or hydraulically on a sliding tube and comes with an off-centre gearbox to provide an extended offset of up to 45cm to the right. Frame and top link are connected via an articulated rod for improved ground contouring



BPR 22 / 24 / 28 / 30: dual-purpose linkage with lateral offset

The BPR's double attachment frame can be front or rear mounted by simply inverting the transmission. These models are fitted as standard with a hydraulic lateral offset of the hitch frame by 45cm. For increased reliability and compact machine dimensions, it is displaced by sliding it over two tubes guided on Teflon rings.



A robust structure

Long service life and resistance against impacts is an important issue for KUHN. Therefore, the casing of BP/BPR 10 series shredders consists of a 6mm thick sheet metal lining and 8mm thick side walls. The two counter-blades (1 notched, 1 smooth) are welded on the casing.



Performing shredding unit

The helical tool layout on the rotor ensures perfect residue suction and homogeneous spread over the ground behind the rotor. More strong points for a long-lasting and high performance: robust tool holders and attachment screws stopped from rotating
- a rotor speed of up to 2,356 min⁻¹ for clean shredding - high-capacity rotor drive by four SPBX V-belts.



Controlled cutting height for quality work

For efficient shredding and plant cover preservation, it is essential to have control over the cutting height. Working height control is either done by:
- a 220mm press roller with fixed or removable ends positioned very close to the rotor for improved ground adaptation, grass ejection over the roller and automatic cleaning by the tools (BP 10 and BPR 10).
- semi-pivoting wheels fixed onto the shredder casing (BP 10).

YOUR ALLY IN MAINTENANCE

Offset possibility, adjustable rear hood, different tools to choose from: Owing to its versatility, this shredder is able to meet very varied applications such as maintenance of pasture land, orchards, brushwood, but also shredding crop residues or intermediate crops.



A structure to last

The hitch frame design, a lasting structure of assembled parts, is especially robust.

As standard, the BP 100 models can be offset mechanically by 58cm to the right. This is obtained using a sliding double tube system (one lower and one upper tube). This design reduces the machine overhang and limits stress on the hitch frame when working in offset position.

The hitch pins are blocked and thus stopped from rotating. The upper link is equipped with a long hole for improved following of irregular grounds.

Perfect shredding

- Rotor with eight rows and helical layout of tools for increased residue suction and perfect distribution over the ground;
- two counter-knives for impeccable shredding;
- possibility to fit hammer knives or universal knives.



A robust and multipurpose hood

The structure is made up of two beams including a welded sheet metal lining for increased resistance. The rear hood is adjustable. Adjust it to the minimum for shredding slightly dense vegetation or maximum product recycling.

Adjust it to the maximum when shredding dense vegetation or if you want to work faster, while limiting the power input.



Working height under control

A BP 100 can be fitted either with:

- a roller of Ø 220mm with removable ends that is positioned close to the rotor for precise ground following,
- or semi-pivoting wheels fitted on the side walls.



A faultless drive

The BP 100 features:

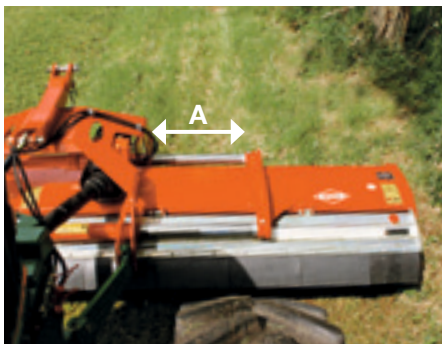
- a gearbox for tractors of maximal 175hp,
- an automatic belt tensioning system,
- three to five belts depending on the model.

BPR 210 | 240 | 280 | 305

ADDING VERSATILITY

With a reversible BPR shredder you can enjoy the benefits of maintaining pastures and fallow land!

But it will also enable you to shred crop residues. When in frontal position, the tractor does not drive over the plants providing smoother shredding action. A BPR fits all tractors: It is coupled at the front or back. Work can also be done with a front and back combination including the KUHN verge maintenance equipment or hedge and grass cutters.



Sliding offset

The BPR 100 models are equipped with a hydraulic offset as standard of 58cm (**A**) allowing them to reach the most difficult to access corners.



Perfect ground following

For controlling the working height, the BPR 100 features a 220mm Ø roller with removable ends for easier maintenance. It is positioned closest to the rotor to ensure:

- perfect ground following,
- self-cleaning of tools,
- easy rolling in all situations.



A faultless drive

The BPR 100 features:

- a gearbox for tractors of up to 175hp,
- an automatic belt tensioning system,
- three to five belts depending on the model.



A pivoting hood for most working conditions

The pivoting hood provides greater versatility. It can be adjusted according to the quantity and type of plants to be shredded.



Longer service life of the shredding casing

The standard model of shredding casing is reinforced by a 4mm lining for longer service life, and it is equipped with two counter blades (one notched and one smooth) for fine shredding.



An effective rotor

The rotor with eight rows of tools efficiently sucks up the residues to be shredded, also those pressed against the ground, for irreproachable shredding quality.

All models are not available in all countries. Please always check with your authorized dealer.

BPR 280 PRO **BPR 305 PRO**

FIT A BPR 100 PRO IN FRONT FOR POWERFUL COMBINATIONS

BPR 100 PRO models, available in widths of 2.80 and 3.05m, can be easily attached to the front or rear. They have been specifically designed for intensive use with high horsepower tractors with a powerful gearbox and a higher attachment than the BPR 100. They are intended for shredding everything from grass to crop residues and cover crops.



HIGH OUTPUTS FOR CONTRACTORS AND LARGE FARMS!

BPR 280 and 305 PRO shredders are the ideal partners to the large-width BP 8300.

Identical tools, tool holders and number of counter-knives make for a homogeneous shredding job.





Adapted for intensive work

The BPR 100 PRO models are designed for tractors of up to 230hp. The linkage point is raised to allow attachment to powerful tractors. The top link remains floating for improved ground following. The robust lateral drive is made up of five rib Powerband belts, featuring an automatic tensioner to withstand the stresses of the most extreme working conditions.



Designed for high-quality shredding

The 465mm diameter rotor is fitted with heavy hammer knives which are perfectly adapted for shredding pasture land, cover crops and woody crop residues. For especially fine shredding, the BPR 100 PRO is fitted with two counter knives with a third available as option. A pivoting rear hood makes an adaptation to different volumes of residues possible.



A versatile implement

The BPR 100 PRO can be easily attached to the tractor front or rear. As the BPR 100 models, the BPR 100 PRO range is also equipped with a 580mm hydraulic offset as standard. The shredder slides on two tubes of 70mm diameter, including Teflon bushes and greaser for more reliability.

CONSIDERABLE SHREDDING OUTPUT!

Contractor or large-farm owner, the BP 8300 multipurpose shredder is made for you. As a triple combination with a BPR 280 PRO or BPR 305 PRO, output rates are impressive with working widths reaching 8.30 m. It is mainly designed for the maintenance of pasture, fallow land and grassy areas, but its versatility means it can shred plant cover (mustard, phacelia...) as well as crop residues and maize stubble. The tractor wheels do not run over the residues so intake into the shredding units is easier.

HIGH-QUALITY SHREDDING RESULTS

The 465mm diameter rotor with helical tool layout, combined with a body equipped with a pivoting rear hood allows these large width shredders to shred a large quantity of vegetation, even at high speed. Ejected over the press roller, the residues are not compacted, thus accelerating their decomposition.





EXCLUSIVE

A shredder with weight reduction and non-stop safety

The frame on the BP 8300 shredder is unique on the market. It is equipped with the same LIFT-CONTROL technology that is used on KUHN's large-width mowers and has exclusive features

In detail:

- Pendulum-type articulation on both shredding units for excellent ground hugging,
- Weight-reduction system for less stress on the roller,
- Non-stop safety is combined with a shredding unit lift system to provide the machine with optimal protection against obstacles when moving rearwards.
- Lift system is built into the frame for easy manoeuvring.

The results: perfect shredding and reduced costs!



Reliable in the most intensive applications

To cope with the most intensive jobs, these shredders are equipped with:

- a gearbox designed for tractors of up to 330hp,
- reduced maintenance SFT secondary PTO shafts,
- a drive for each shredding unit using five SPBX belts,
- an automatic belt tensioning device.

A «pro» structure

It also comes with:

- welded sheet metal lining for optimal protection against wear and impact,
- two counter blades for fine shredding (third optional),
- a pivoting rear hood to adapt to all types of working conditions,
- a press roller with removable ends 220mm in diameter,
- lateral skids,
- rotor with hammer holding pins (20mm diameter) made of special treated steel.

BP 8300: Front/rear triple combination

This rear butterfly unit is used together with a front BPR PRO shredder responding to the need of a performing and well balanced front/rear combination for high output.

FIELD SHREDDERS

A RANGE TO COPE WITH LARGE VOLUMES OF RESIDUES

WELL-SHREDDED CROP RESIDUES ARE A FRIEND OF YOU AND YOUR SOIL, FIGHTING PESTS AND DISEASES AND RAPIDLY TRANSFORMING THE ORGANIC MATTER INTO BENEFICIAL HUMUS STRUCTURES.
DISCOVER THE KUHN RANGE OF FIELD SHREDDERS, WHICH ENSURE FINE SHREDDING AND GOOD SPREADING OF ALL RESIDUES!

	BK	RM	RM R	BC 1000	BC 1000 R	BCR 1000	RMS 820	WS 320 BIO
Hitch type	Rear					Front, rear or reverse drive	Arrière	Front or reverse drive
Main applications	Fallow land, intermediate crops and crop residues	Intermediate crops and crop residues						Harvest of energy crops
Models available	230 - 280 - 320	240 - 280 - 320 - 400	480 - 610	2800 - 3200 - 4000 - 4500	6500	2800	820	320



BK 230 / BK 280 / BK 320

Shredder series for individual mixed crop farms with working widths of 2.30, 2.80 and 3.20m; with pivoting hood for maintenance work.



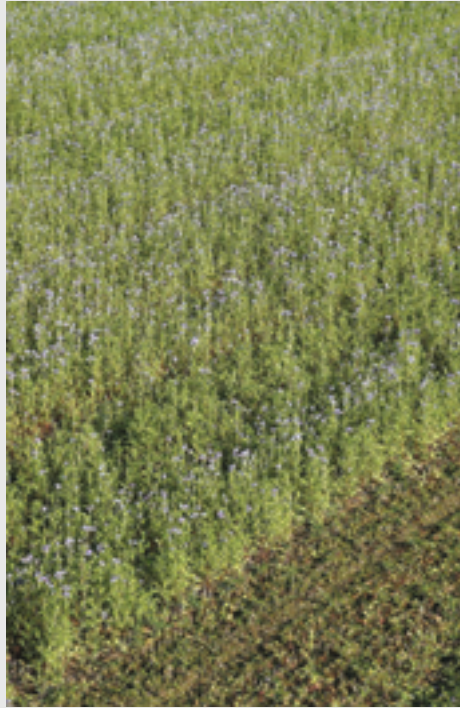
RM 240 / RM 280 / RM 320 / RM 400

Field shredders proven worldwide on cereal farms and in machinery cooperatives with working widths from 2.36 to 4.01m.



RM 480 R / RM 610 R

Even more work output in foldable version which combines easy road transport and large working widths (4.80 and 6.10m).



BC 2800 / BC 3200 / BC 4000 / BC 4500 / BCR 2800 / BC 6500 R

These new models with working widths from 2.79 to 6.50 m are highly robust and produce top quality shredding. The reversible BCR 2800 model is ideal for anyone looking for a high-capacity front machine.

The foldable BC 6500 R model is suited to large shredding jobs on large farms and contractors. It is adapted to tractors from 200 to 400 hp.



RMS 820

An outstanding rigid machine for large farms with shredding width of 8.20m and adapted to very high power tractors.



WS 320 BIO

Front-mounted shredder with built-in windrower for harvesting energy crops, can be used in combination with baler. Two actions in one pass.

*All models are not available in all countries.
Please always check with your authorized dealer.*

THE ALLROUNDER FOR MIXED FARMS

BK shredders are intended for mixed crop farms. Available in three working widths; 2.30, 2.80 and 3.20, they are efficient machines designed to shred crop residues, straw, maize and sunflower stubble, fallow and pasture land.

THE MEANING OF EFFICIENT SHREDDING

Shredding improves the decomposition of crop residues. A satisfying result is achieved, if the majority of residues is less than 5cm long, the shredding height is uniform and residues distributed regularly over the soil after shredding. With KUHN shredders you can count on proven solutions to achieve these requirements. Important points for a longer service life:

- The coupling device ensures that the tractor/tool link is very rigid.
- The free wheel is integrated in the gearbox as standard.
- A double skinned hood is available as option.





Rotor and tools for perfect shredding

The high linear speed combined with the high level of overlap between tools ensures high-quality shredding. Moreover, you can shred large quantities of residues with the large rotor diameter. Maintenance-free rotor thanks to bearings that are greased for life. Also the free wheel in the central gearbox needs no maintenance.

The rotor is fitted with four rows of tools to choose from:

- universal knives with stubble pallets to lacerate the residues better: for stubble and cereals,
- long hammer knives for woodier material: maize and sunflower stalks, maintenance of pasture land.

The rear hood can be lifted manually for better access to the rotor. Therefore the shredding tools can easily be changed.



Perfectly controlled shredding height

Two working height control devices are available for these machines:

- semi-pivoting wheels,
- roller.

Wide height-adjustable skids are available as option.



Hydraulic offset

BK 230 and BK 280 shredders can be fitted with hydraulic offset of 40cm to the right to shred in fields with obstacles: orchards, rocks, etc.



Lengthways transport

The BK 320 can be transported lengthways for passing narrow paths and roads with ease.

RM 240 | 280 | 320 | 400

RM 480 R | 610 R

DESIGNED FOR INTENSIVE USE

The RM shredders with horizontal axis, both rigid and foldable, are adapted for shredding crop residues such as cereal straw, sunflower or corn stalks, but also for the maintenance of pastures and meadows. Still, the main areas of operation will be on cereal farms, in machinery cooperatives or for contracting work.

THREE CRITERIA FOR IMPECCABLE SHREDDING QUALITY

A large diameter rotor, sufficient overlap between the tools and a high linear tool speed: Those are the three most important things to think of when designing a shredding rotor.

KUHN meets these criteria with its rotors, adding also the helical tool layout in order to increase the suction for an improved cut and even residue distribution.



Reliable hectare after hectare

The RM shredders have proven themselves in the field for years, as has their casing that is exceptionally robust. The secret: It's made up of three large section beams and can therefore resist the most difficult conditions.

For additional protection against stones all RM models are fitted with a 4mm bolted sheet metal lining.



Control the shredding height!

The shredding height is adjusted either by:

- pivoting wheels adjustable in height and laterally for shredding crop residues,
- or by a roller for management of fallow land and grass land.

For improved contour following, the top link is in "floating" position.



Fine shredding of all types of plant residues

The universal knives with stubble pallets will lacerate the residues for faster decomposition. They also provide improved suction into the hood, especially of lodged crops.



A clean cut for the most ligneous plants

The long hammer knives are adapted for shredding grass, maize or sunflower stalks

All models are not available in all countries. Please always check with your authorized dealer.

RIGID VERSIONS FOR MORE COMFORT IN DIFFICULT CONDITIONS

RM shredders are used on many farms worldwide. Their reputation is the best proof of their strength and shredding quality. The rigid versions are available in working widths from 2.40 to 4.01m



A drive adapted to high power

Thanks to their double drive, the power transmission on RM 320 and RM 400 models is better distributed to the drive components.



For an easy tool exchange

The rear hood can be lifted manually for easier access to the rotor for maintenance. Therefore the shredding tools can be changed in total ease.



For increased comfort and safety on the road

A hydraulic lengthways transport device is available for the RM 400 shredder. This way, the machine does not exceed the tractor width and can be transported in total serenity.

FOLDABLE VERSIONS FOR MORE PRODUCTIVITY

With the foldable RM R range, an exceptional work output is sure when shredding with these sturdy machines of 4.80 and 6.10m working width! Thanks to their hydraulic folding, travel time between fields is also limited.



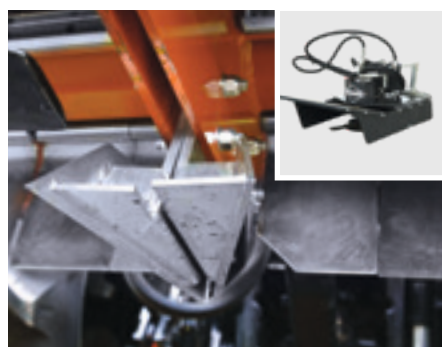
A robust structure

The main frame is made up of heavy profiles that ensure good rigidity and mechanical strength. Moreover, each half shredder is fixed to the main frame with a bushed pivot pin stopped from rotating to protect the attachment from wear.



Totally safe on the road

The two shredder units fold and unfold hydraulically and lock in place for total safety during transport. Lighting and signalling belong to the standard equipment.



Central strip managed effectively

To reduce the central strip to a minimum, we have optimized the suction at the center of the machine. The flow of residues is directed into one of the units with an increased number of tools in this area and with a fitted divider share. As option a hydraulically driven disc can be mounted at the front between the two units to fully remove the residue strip in-between.

THE BEST ALLIANCE OF ROBUSTNESS AND WORK QUALITY

BC 1000 series shredders are ideal for cereal operations, machine cooperatives and contractors. They are specially designed for intensive jobs with tractors up to 400 hp. Available in working widths from 2.80 to 6.50, they are perfectly capable of shredding high volumes of crop residues, even at high ground speeds.



Ensured robustness

The BC 1000 models have been designed to work in intensive conditions. The new casing design ensures reliable processing of many hectares. The large section beams, the double drive per belts (from 3.20m on) and the large diameter wheels reinforce the technical specifications of a model that will undoubtedly win you over.

High quality shredding

A regular and fine shredding result is the aim to support soil microbes in their decomposition work. That's why the BC and BCR 1000 shredders are equipped with:

- a large diameter rotor with eight rows of helically positioned working tools for improved residue suction and homogeneous shredded residue spreading,
- a choice between hammer knives or universal knives with stubble pallets for optimal adaptation to the type of residues.
- two counter-knives welded inside the casing for a perfect shredding finish.

BC 2800 IS NOW DLG-TESTED AND APPROVED

The BC 2800 universal shredder scored very good results in a „DLG approved“ test carried out in 2015/16 in the categories „quality of work“, „power requirement“, „handling“ and „in-field performance“.

The test explored how the shredder worked in grain maize stubble.

To assess the in-field performance the machine was operated on five farms.

All farmers filled in a questionnaire after operating the shredder.



*The most frequently awarded grade
**Grading system: very good (++), good (+), satisfactory (o), not satisfactory (-)

TEST CRITERION	TEST RESULT*	SCORE**
VISUAL ASSESSMENT OF WORK QUALITY		
Consistency of chop lengths	Good	+
Quality of work	Very good	++
Cross distribution of mulched material	Good	+
USER ASSESSMENTS AFTER FIELD TESTING OF MACHINE		
Attachment and removal	Good	+
Access to service points	Good	+
Cleaning before road transport	Good	+
Side-shift function	Satisfactory	o
Occurrence of vibrations	Never	++
Stone impact protection	Good	+
Cutting height control	Good	+
Occurrence of blockages	Very rarely	++



BC 6500 R: reliability embodied

This large shredder with a working width of 6.50 m is built around 3 large section beams, a high-strength coupling, a high-capacity drive with POWERBAND belts and a sheet metal lining which combines robustness and reliability. Its large diameter rotor (647 mm) fitted with heavy hammer knives ensures a high output during shredding of residues. Special «L-shaped» tools equip the rotor to ensure shredding of the central strip.

AN OUTSTANDING SHREDDER FOR LARGE CEREAL FARMS!

Some basic features about this shredder already speak for themselves:

- working width of 8.20m,
- adapted for high-power tractors up to 450hp,
- weight of 6,600kg.

This is the right shredder for extra-large surfaces that are shredded intensively, exposing the machine to high loads and strains.

Apart from that, you can count on the familiar KUHN assets such as the large-diameter rotor with helical tool layout and high tool speeds for superior shredding quality. The shredding height is controlled by four pivoting wheels.



Practical and safe transport

For a machine of this size innovative transport solutions have to be found. On the RMS 820 both the hydraulic transport device and the hydraulic drawbar are fitted with double acting cylinders with pilot-operated valves. Both safe and practical!



A sturdy chassis

The welded chassis is made up of four beams for increased rigidity: one front, one upper, and two lower beams. Also the structure components are very thick and an interchangeable sheet metal lining is bolted to the chassis.



A robust rotor drive

Thanks to its double drive, the power transmission distribution to the drive components is improved. At each side the rotor is driven by six SPBX high-capacity belts, which are fitted with an automatic tensioning device.

NOT ONLY SHREDDING, BUT HARVESTING

The WS 320 BIO is a specialised energy crop shredder designed to harvest energy crops. It can work in combination with a baler - an absolute innovation on the market. It is front-mounted with a built-in windrowing device designed for harvesting high-volume crops, such as miscanthus or sorghum. If used together with a baler, only one driver is needed to shred, swath and bale the crop!

CONVINCING ADVANTAGES

When compared to self-propelled forage harvesters or mowing and baling in separate steps, the WS 320 BIO stands out with following assets:

- only one person necessary for the entire harvesting process;
- less soil compaction due to less passages of large machines over the field and reduced fuel consumption;
- simpler transport logistics and less space needed for bale storage especially if baled with a high-density baler into square bales.



Easy intake

For improved intake of crops which are generally tall and dense, the shredder has a hydraulically adaptable front cover and reel. The WS 320 BIO is suitable for all types of vegetation with high volumes. It can even work in difficult conditions with lodged crops.



Adapt shredding to crop harvest

The rotor speed is reduced to receive shredding lengths exceeding 15cm. Only then are they able to be baled. If you need finer shredding, we recommend the use of a shredder under the baler. The roller can be adjusted to provide the desired cutting height, from 4 to 15cm.



One passage, three operations

Windrowing is provided by a worm screw attached behind the rotor. It is driven by a hydraulic motor connected directly to the tractor. Rotation speed can be adjusted to adapt to the working conditions (quantity of material, ground speed). The shredded product is discharged uniformly via a central opening at the back of the shredder. This avoids crushing by the tractor wheels. Baling, in combination or not, will be all the easier.

*All models are not available in all countries.
Please always check with your authorized dealer.*

MULTIPURPOSE SHREDDERS		VKM				BP			
Models		210	240	280	305	24	28	30	240
Working width (m)		2.09	2.37	2.79	3.03	2.37	2.79	3.03	2.37
Transport width (m)		2.25	2.55	2.98	3.21	2.55	2.96	3.19	2.55
PTO speed (min ⁻¹)									
Minimum tractor power requirement (kW/hp)		51 / 70	59 / 80	66 / 90	74 / 100	59 / 80	66 / 90	74 / 100	59 / 80
Maximum authorized DIN motor power (kW/hp) at 1,000 min ⁻¹ (or 540 if only version available)		96 / 130		110 / 150					
Attachment		3-point, cat. 2							
Lateral offset (mm/in)		520	580			450			
Free wheel									
Rotor drive		3		4		3	4		3
Rotor diameter (mm/in)									
Rotor speed (min ⁻¹)	PTO 540 min ⁻¹	1,833							
	PTO 100 min ⁻¹	1,960							
Linear speed of tools (m/s)	PTO 540 min ⁻¹	48				49	44		45
	PTO 540 min ⁻¹	-		48		57	48		48
Number of hammer knives		22	24	28	32	24	28	32	24
Number of articulated scoop knives		44	48	56	64	48	56	64	48
Number of long hammer knives									
Number of universal knives with stubble pallets									
Number of universal knives		-							
Counter blade									
Side skids		◆				◇			
Height adjustment		semi-pivoting wheels or roller with removable ends							
Roller diameter (mm/in)		180							
Weight with equipment (kg/lbs)		870	910	960	990	860	890	920	820

MULTIPURPOSE SHREDDERS		BK			RM			
Models		230	280	320	240	280	320	400
Working width (m)		2.30	2.80	3.20	2.36	2.80	3.23	4.01
Transport width (m)		2.50	3.00	3.47	2.55	3.00	3.48	4.35
PTO speed (min ⁻¹)		540 / 1 000						
Minimum tractor power requirement (kW/hp)		51 / 70	66 / 90	81 / 110	66 / 90	74 / 100	88 / 120	96 / 130
Maximum authorized DIN motor power (kW/hp) at 1,000 min ⁻¹ (or 540 if only version available)		90 / 125	110 / 150	129 / 175	110 / 150	125 / 170	147 / 200	205 / 280
Attachment		3-point, cat. 2			3-point, cat.2 - semi-automatic or fixed			3-point, cat.2 - semi-automatic
Lateral offset (mm/in)								
Free wheel								
Rotor drive		4 belts SPBX		5 belts SPBX	4 belts SPBX		3 + 3 belts SPBX	4 + 4
Rotor diameter (mm/in)		620	647			703	647	703
Rotor speed (min ⁻¹)	PTO 540 min ⁻¹	2,083	1,840	-	1,833			
	PTO 100 min ⁻¹	-	1,960	1,758	1,960	1,680	1,758	1,747
Linear speed of tools (m/s)	PTO 540 min ⁻¹	67.6	62	-	62			
	PTO 540 min ⁻¹	-	66.3	59.5	66	57	60	64
Number of articulated scoop knives								
Number of hammer knives								
Number of long hammer knives		26	32	36	28	32	36	44
Number of universal knives with stubble pallets		52 + 26	64 + 32	72 + 32	56 + 28	64 + 32	72 + 36	88 + 44
Number of universal knives								
Counter blade		◆ (1 smooth, 1 notched)						
Side skids		◇						
Height adjustment		Semi-pivoting wheels or roller with removable ends			Semi-pivoting wheels or roller (fixed twin wheels on RM)			
Roller diameter (mm/in)								
Weight with equipment (kg/lbs)		950	1,100	1,410	1,195	1,210	1,400	2,130

		BPR										BP
280	305	22	24	28	30	210	240	280	305	280 PRO	305 PRO	8300
2.79	3.03	2.10	2.37	2.79	3.03	2.10	2.37	2.79	3.03	2.79	3.03	8.30
2.99 or 3.10*	3.34	2.29	2.55	2.95	3.19	2.27	2.55	3.00	3.34	2.96	3.34	3.00
540 / 1000										1000		
66 / 90	74 / 100	40 / 55	45 / 60	65 / 90	75 / 100	51 / 70	59 / 80	66 / 90	74 / 100	70 / 95	81 / 110	110 / 147
129 / 175		110 / 150				129 / 175				169 / 230		221 / 243
		3-point, cat. 2 - reverse drive - fixed or floating								3-point, cat. 2 or 3 - front or rear - fixed or floating		3-point, cat. 2 or 3
580						520	580				-	
◆ integrated in the gearbox												
5			3		4		3		5			5 + 5
465												
		2,203		1,833						-		
		2,356		1,960						1,870		2,052
		54		44		45				-		
		57		48						46		50
28	32	22	24	28	32	22	24	28	32	28	32	64
56	64	44	48	56	64	44	48	56	64	-		
						54	60	72	78	-		
◆ (1 notched, 1 smooth)												
◆												
		Roller with removable ends										
220												
900	950	850	920	990	1,120	870	950	1,020	1,100	1,150	1,230	2,630

		BC					BCR	RMS	WS
480 R	610 R	2800	3200	4000	4500	6500 R	2800	820	320 BIO
4.80	6.10	2.79	3.23	4.01	4.52	6.50	2.79	8.20	3.23
2.50		2.99	3.47	4.35	4.93	2.65	2.99	Lengthways transport - drawbar	3.48
1 000									
118 / 160	132 / 180	74 / 100	88 / 120	95 / 130	103 / 140	150 / 200	88 / 120	191 / 260	110 / 150
257 / 350		147 / 200	221 / 300	257 / 350		300 / 400	221 / 300	331 / 450	221 / 300
3-point, cat. 2 or 3		3-point, cat.2		3-point, cat.2 and 3 - semi-automatic		3-point, cat.2	3-point, cat.2	3-point, cat.3 or 4, quick-hitch compatible	3-point, cat.2 or 3, fixed or floating
-									
◆									
belts SPBX	5 + 5 belts SPBX	4 belts SPBX	3 + 3 belts SPBX	4 + 4 belts SPBX	5 + 5 belts SPBX	Powerband QP4 1900	4 belts SPBX	6+6 belts SPBX	5 belts Powerband
620	630	647		730		647		730	647
-									
1,714		1,758	1,747	1,714	1,530	1,870	1,758	1,721	117
56		60		65	58	64	60	66	38
56	68	32	36	44	52	72	32	-	-
112 + 56	136 + 68	64 + 32	72 + 36	88 + 44	104 + 52	144 + 72	64 + 32	-	-
								264	72
◆ (1 smooth, 1 bolted)						◆ (2 notched, 1 bolted, 1 welded)	◆ (1 smooth, 1 bolted)		-
◆									
450 trailed)		◆ Roller with removable ends or semi-pivoting wheels						4 semi-pivoting wheels	Roller with removable ends
220								-	220
2,600	3,200	1,330	1,560	2,400	2,343	3,900	1,900	6,000	1,800

* At a speed of 1 000 min⁻¹ ◆ standard ◇ optional equipment - not available

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