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LOADING AND FORAGE TRANSPORT WAGONS

RX

Loading and forage transport wagon

Articulated drawbar
for high ground clearance
Page 8

Drawbar suspension
for comfortable rides
Page 8

Uncontrolled pick-up
with w-shaped tines
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Large cutting rotor and feed rotor
with wide Hardox steel plates
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Blade cassette can be swivelled out to the side
with 46 switchable blades
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Optimised loading space utilisation
thanks to pivoting front wall
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All-steel floor and all-steel body
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Double scraper conveyor,
sloping towards the front
Page 18



KRONE RX – Transport in perfection!



RX is KRONE's latest generation of loading and forage transport wagons. With a transport volume of 36 to 43 m³, they have their strengths as genuine dual-purpose loading wagons, both as loading and forage transport wagons for green forage crops and as transport wagons for use in the loading column of forage harvesters. The optional 30.5" tyres stand for increased load capacity and low drag resistance, sward protection and transport safety. Thanks to their versatility, operational reliability and high efficiency, the use of RX wagons is particularly economical.

The dual-purpose loading and forage transport wagons

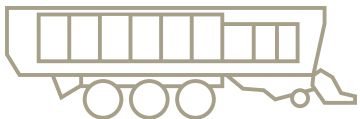
RX 360 GL and GD

The RX 360 GL/GD as a loading and forage transport wagon

The wide pick-up and cut-and-feed rotor feed the material effectively through a short feed chamber and across the full width of the load area. Arranged in close proximity to the wide rotor tines plates, the blades on the cutting system give scissor-like cuts.

The forager filled RX 360 GL/GD

The stable all-steel body and the high permissible axle load (20 t) make the RX 360 a reliable and economical transport vehicle, even when used with forage harvesters.



For high demands

- **Loading and forage transport wagon**
- **All-steel body**
with 36 m³ loading volume (according to DIN 11741)
- **Headboard hatch**
- **Feed rotor and cutting rotor**
with 46 blades
- **Unloading**
with or without discharge unit

The sturdy 36 m³ steel structure, the headboard with its hydraulic hatch and the massive running gear with tandem axles and a steered rear axle make the RX 360 a genuine dual-purpose forage wagon. It is available with all-steel body without discharge rollers (GL) as well as with all-steel body with discharge rollers (GD).



Safe road travel

The long, narrow drawbar, the tandem chassis with steered rear axle and the short design make the RX 360 particularly manoeuvrable and safe in the field and during road transport.



The dual purpose loading and forage transport wagons

RX 400 GL/GD and 430 GL



Used as a loading and forage transport wagon

The extra wide pick-up and feed rotor fill the load area quickly and uniformly, feeding the material through a wide chamber into the load area that can be expanded by pivoting the headboard. The narrow gap between the blade edge and the paddle tines ensures the highest cutting quality (shear cut principle).



Used as a forage transport wagon

Offering volumes of 40 or 43 m³, an extremely high unloading rate and an impressive 24 t gross weight, the RX models make ideal silage trailers to run in the haulage fleet serving the forage harvester. The dual purpose option makes the use of these RX wagons particularly economical.

Immense loading volume

- Loading and forage transport wagon
- With 40 or 43 m³ loading volume (according to DIN 11741)
- Steel structure (GL) or steel structure with discharge rollers (GD)
- Hydraulic pivoting headboard
- Feed rotor and cutting rotor with 46 blades

In the case of the two large RX dual-purpose loading and forage transport wagons, proven design features and innovative technical solutions from the ZX series form the basis for the implementation of further practical ideas.



Safe during transport

The long articulated drawbar, steerable tandem chassis and hydraulic height compensation between the two axles optimise handling and stability in the field and on the road.



Hitch, drawbar and running gear

Safe and manoeuvrable on the road and in the field



The hitch

All RX wagons feature a ball-head attachment 80 approved for 4 t drawbar load in bottom hitching. This ensures excellent manoeuvrability with minimum wear at the same time.



The drawbar

Their long and slim drawbar gives the RX models extra agility for manoeuvring in tight turns. The standard suspension for the articulated drawbar absorbs shockloads and offers maximum operator comfort. Two massive rams on the articulated drawbar raise the laden machine and increase its ground clearance on the clamp. An optional automatic system allows drawbar positions to be stored and retrieved.



The tandem chassis

The RX tandem chassis is equipped with hydraulic compensation between the front and rear axles as standard, for a uniform weight distribution at all times and for smooth rides and optimum stability. A range of tyre options is available to suit all harvest conditions. Steeply sloping mudguards prevent the crops from collecting here.





Transporting with maximum efficiency

- **Hydraulic balancing chassis as standard**
- **Range of tyre options**
for all operating conditions
- **Very manoeuvrable**
thanks to long drawbar
- **Articulated drawbar**
for high lifting height

Varying harvest conditions, difficult situations on the clamp, high payloads, and long-distance travel at speed call for a running gear and a drawbar that offer maximum strength and stability as well as superior comfort and safety to the operator. With ball-head attachment, articulated drawbar and tandem chassis with adjusted tyres, the RX dual-purpose loading and forage transport wagons are ideally equipped for all applications.



Steered rear axle

A mechanical forced steering system is available as an option on the rear axle. The steering rod makes headland turns easier, reduces scuffing and tyre wear. It is easily unlocked for quick attachment and removal. The forced steering system is set up and controlled with the help of pressure gauges. An electronic forced steering system is available as well. This allows the driver to actively intervene in the steering action and e.g. counteract any drifting of the wagon on slopes or on the silage clamp.

Range of tyre options

The optional 30.5" tyres stand for increased load capacity and low drag resistance, sward protection and transport safety.



800/45 R 26.5 TL 174 D

Width: 800 mm
ø: 1,350 mm



710/50 R 30.5 TL 173 D*

Width: 730 mm
ø: 1,485 mm



**800/45 R 26.5 TL 174 D
(Trac profile)**

Width: 800 mm
ø: 1,380 mm



800/45 R 30.5 TL 176 D

Width: 810 mm
ø: 1,510 mm

* The loading volume varies depending on the equipment.

The KRONE EasyFlow pick-up

Crop pick-up with maximum precision

Perfect transfer

- **6.5 mm thick double tines**
with large coil diameter
- **Very wide pick-up**
for picking up the crop cleanly and completely
- **No cam track means few moving parts**, for
minimum maintenance and particularly quiet
running

The special features of the EasyFlow pick-up include picking up the crops quickly, cleanly and completely, even in difficult conditions and at high working speeds. In addition, the EasyFlow is particularly robust in use, as it is constructed with only a few moving parts.



The pick-up

Offering a work width as wide as 2 m, the EasyFlow pick-up effectively gathers even wide swaths and feeds the material in an extraordinary consistent flow to the feed rotor. With spring relief and pendulum suspension, the EasyFlow adjusts optimally to even very uneven ground.

Better off without a cam

KRONE has good reasons to opt against cam track control for the EasyFlow pick-up tines. Instead of using many moving parts that are prone to wear, we rely on special strippers that ensure the pitch of the tines is always correct and their working width always ideal.

The double tines

The 6.5 mm diameter tines with large coils are particularly hard-wearing. Arranged in a wavy pattern, six rows of tines ensure there is always the same number of tines in work. This prevents force peaks and ensures even forage distribution across the entire working width.





The crop press roller unit

The crop press roller supports the work of the pick-up by ensuring the crop is gathered cleanly and in a consistent flow. The height is adjusted easily to suit the current crop, the swath volume and ground speed.

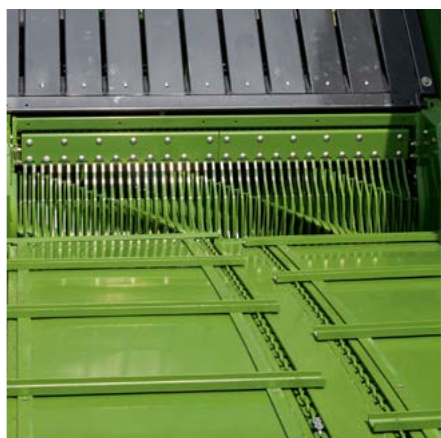


The guide wheels

The EasyFlow pick-up is guided by two small side-mounted gauge wheels. Adjusted without tools to alter the pick-up height, The guide wheels are castoring and can pivot flexibly for The working height of the pick-up is set without tools in a hole pattern. To optimise ground contouring in difficult harvesting conditions and for use on soils with little load-bearing capacity, the EasyFlow can also be equipped with 2 rear guide wheels

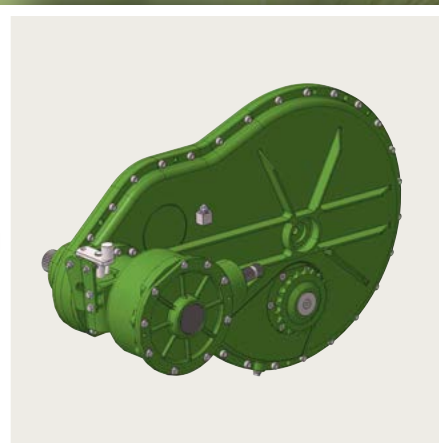
The KRONE cutting rotor

Precise technology that inspires



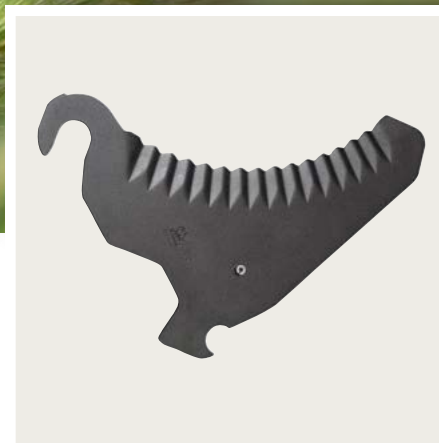
The rotor

The KRONE rotor cutter is designed to give exact cuts in large volumes of crop. The 88 cm diameter rotor works at a width of 176 cm and has its tines arranged in helical rows. The tines have 22 mm wide hard-wearing plates and strippers made of high-tensile Hardox steel. This ensures that the rotor tines accurately feed all forage through the rows of blades, using the shear cut principle, and fill the loading space quickly and evenly.



The rotor drive

The rotor is driven by a massive and enclosed spur gear. It runs in an oil bath and can withstand the highest loads.



The blades

Their wavy edges make precise and smooth cuts. The blade itself is plain and simple and the cutting edge is hardened twice. This is the KRONE formula for reduced wear and lasting sharpness – The perfect combination for long and demanding harvest days.



The blade cassette

The blade cassette lowers hydraulically and swings out to the side for convenient blade replacement. When the blades have been centrally unlocked, they can be easily removed and replaced.





Convincing quality

- **Wide rotor**
with a large diameter for high loading capacity
- **Spirally arranged rows of tines**
for quiet running
- **Low drag resistance blades**
with precise shear cut

The rotor cutter on the RX forage wagons offers many advantages. Powerful and low-maintenance, the rotor operates very smoothly. It also transports the forage extremely gently and evenly. The blades of the cutting unit cut precisely, stay sharp for a long time and are very easy to change.

The blade group control system

The central blade group control system controls the cutting length. The operator selects the blades in sets of 46 or 23 to achieve nominal chop lengths of 37 mm or 74 mm. When all blades are retracted there is no cutting.

Individual blade protection

Each blade is individually protected by a tensile spring, the tripping force of which can be adjusted centrally and steplessly. When the blade has been released, it automatically returns to the working position.



The KRONE blade grinding device

SpeedSharp



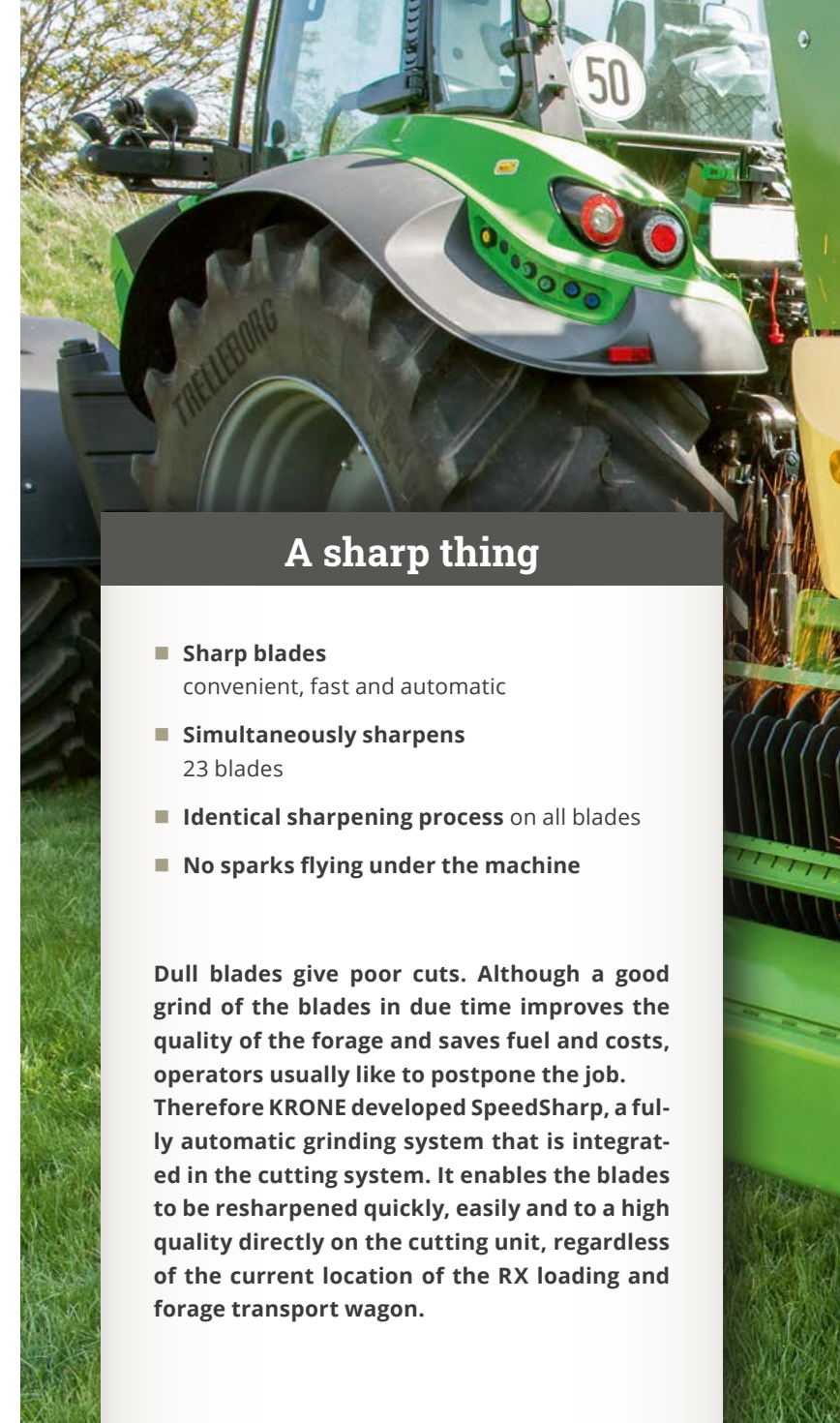
Sharpening blades with SpeedSharp

The optional SpeedSharp system forms an integral part of the cutting system. Arranged on the rotor, the discs grind 23 blades in one operation and without the need of removing them from the cassette. The process is then repeated automatically for the remaining blades. all of which are perfectly ground after just 4 minutes. Up to 10 grinding cycles can be preselected on the RX operating terminal.



Preparation

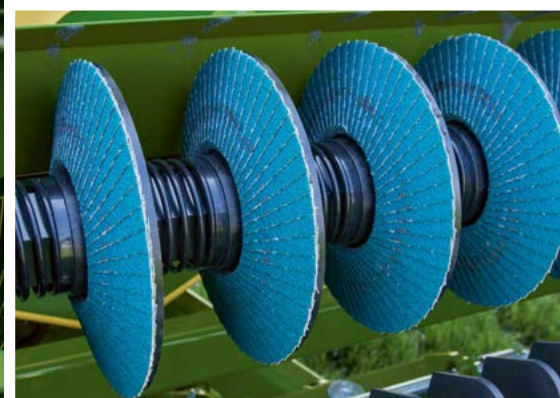
To get ready for grinding, pull out the blade cassette and swing it alongside the machine. After connecting two hydraulic hoses, the grinding process is started by pressing a key on the vehicle frame. The grinding sparks can escape freely upwards.



A sharp thing

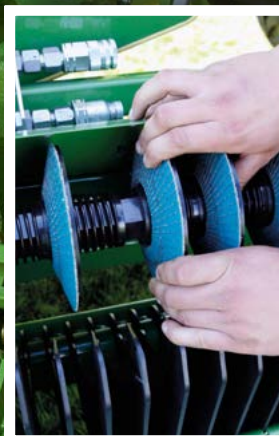
- **Sharp blades**
convenient, fast and automatic
- **Simultaneously sharpens**
23 blades
- **Identical sharpening process** on all blades
- **No sparks flying under the machine**

Dull blades give poor cuts. Although a good grind of the blades in due time improves the quality of the forage and saves fuel and costs, operators usually like to postpone the job. Therefore KRONE developed SpeedSharp, a fully automatic grinding system that is integrated in the cutting system. It enables the blades to be resharpened quickly, easily and to a high quality directly on the cutting unit, regardless of the current location of the RX loading and forage transport wagon.



The flap discs

The discs have flaps that overlap generously to ensure superior grinds and longevity, giving a 'cold' grind that effectively cuts out the risk of annealing.



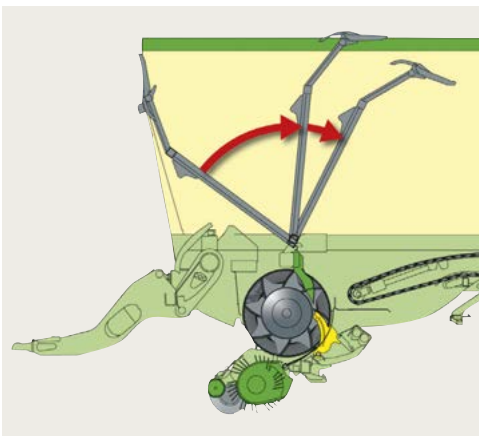
Uniform sharpness

Each grinding disc is held down on the blade by its own bevel spring. In this way, even if all blades have different levels of wear, they are ground evenly with the same degree of sharpness and with the least possible material removal.



The loading space

Maximum loading volume thanks to clever features



The pivoting front wall

The RX 400 and RX 430 models have a hydraulic headboard which pivots to various positions to support the filling process. For example, when the machine is filled by a forage harvester, the headboard pivots all the way forward to maximize the capacity and cut out the risk of losses. By comparison, when the machine is gathering material through the pick-up, the headboard is nearly vertical to optimize the filling process. Once the load area is filled, the headboard pivots towards the tractor to expand the load area by 4 m³, simply by using the space above the rotor. This way the RX runs much closer behind the tractor than other wagons of the same capacity. During unloading, the unloading process can be significantly accelerated by automatically swivelling the front wall back and forth several times.





The chopper flap

The RX 360 has a straight vertical headboard. When the combination is following the forage harvester, the tractor operator can open the top hatch towards the tractor for easier filling. During loading, the flap is swivelled into the loading space.



The loading space cover

The optional crop covers are operated from the tractor seat and folded hydraulically into transport position. Their flexible texture is tightened on sturdy frames covering the contents effectively and In this way, they keep the payload securely in place on the wagon even when driving fast on the road.

Plenty of room for quality forage

- All-steel floor and all-steel body
- Choice of headboards: pivoting or top hatch
- Double scraper conveyor, sloping towards the front
- Standard LED light bars illuminate the load area
- With or without discharge rollers
- Optional cross conveyor belt for unloading fresh forage in the barn

With their all-steel loading space, the RX dual-purpose loading and forage transport wagons are designed for the toughest practical applications. Choose a pivoting headboard or a rigid headboard with a top hatch to optimize the machine's filling capacity. The robust scraper conveyor empties even heavy forage quickly and evenly.

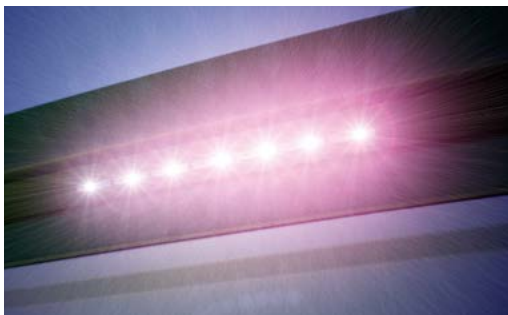
The loading space

The details in focus



The scraper conveyor

Four high-tensile and tube-steel floor chains with channel steel slats are driven by two hydromotors – one on either side of the machine – and advance quickly, fast and effectively clearing out even very heavy material. The floor slopes at its front end, thereby shortening the passageway into the machine and reducing the strain on the crop as well as the input power whilst boosting the intake rate.



The lights in the load area

To improve visibility during the small hours and night, the loading area is lit by four LED light bars.



The feeding belt

The optional cross conveyor belt is an ideal feature for farmers who feed the fresh forage directly to their cows. The 90 cm wide belt feeds the material to the right and left side. But you can also empty the machine as usual via the discharge rollers without any previous modification by opening the “rucksack” tailgate together with the integral belt.





The automatic loading system and automatic fast unloading system

To increase comfort and relieve the driver, the scraper conveyor can be automatically activated and controlled via sensors. To ensure that the maximum volume of the wagon is always optimally utilised during the pick-up operation, a sensor measures the pressure of the forage on the front wall. Another sensor measures the current angle of the hatch when the filling level is high. If the preselected values are exceeded, the scraper conveyor is started automatically. Depending on the current load, the auto fast mode switches the floor chain to a higher speed to speed up unloading.

Unloading via discharge rollers (GD version)

The discharge rollers unload the material in very uniform mats. Available in sets of two or three, the bottom rotor always spins at a higher speed. The dosing unit is driven non-positively directly via the protected main universal shaft, resulting in even faster unloading.

The KRONE on-board electronics and the operating terminals

Comfortable control directly from the cabin

Clear overview

- Comfortable and clearly arranged
- Easy and user friendly
- ISOBUS compatible

The KRONE Comfort electronic system brings fun to field work, making the dual-purpose RX forage wagons easier to use and faster, too.

Several operating terminals for different tasks are available.



DS 100 operation unit

The layout of the DS 100 control unit is specially designed for the convenient operation of a forage wagon, providing optimum ergonomics and haptic press button feedback to the operator so they can now use the keypad without looking down.



The DS 500 Terminal

The compact DS 500 terminal has a 5.7" colour display screen and can be operated with 12 function keys, the touchscreen or the scroll wheel on the back. The use of an optional joystick makes operation even more comfortable.



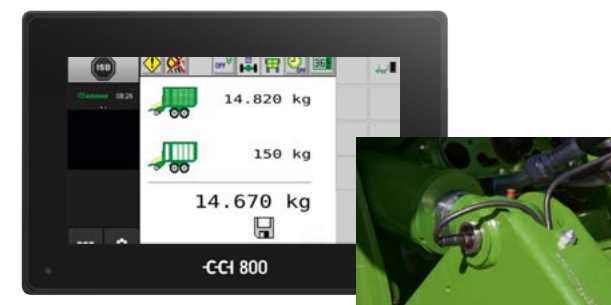
CCI 1200 operating terminal

The CCI 1200 operating terminal with 12" touch display offers the option of splitting the screen in addition to the Delta terminal. For example to see all machine control elements in one view and the camera footage in the other. The addition of an AUX joystick makes machine operation even more convenient.



Tractor's own operating terminal

If the tractor has an ISOBUS terminal, you can use this to control the electronic system on RX. In this case, there is no need for a KRONE terminal and operation is even more convenient.



Weighing system

The optional weighing device can be used to determine and store the weight of the load via gauging pins on the running gear and on the articulated drawbar.

KRONE fresh matter Express

Perfect team for recovering forage



To achieve even higher milk yields from the basic forage, feeding cows with fresh grass is gaining increasing attention. In view of rising silage storage costs, hay milk production programmes and further aspects fresh mass is being viewed from a different angle today. KRONE offers exactly the right machines to recover the very best forage every day. The EasyCut F 400 CV Fold in combination with the RX 400 GD offers maximum efficiency here.



RX 400 GD with cross conveyor belt

Whether small or large, the powerful feeding unit fills any forage table in no time. Smartly coupled to the tail-gate, the RX delivers fresh grass non-stop.



EasyCut F 400 CV Fold

The combination goes into narrow buildings and feed passages thanks to the patented slewing gearbox. Wide in the field and narrow when it counts.

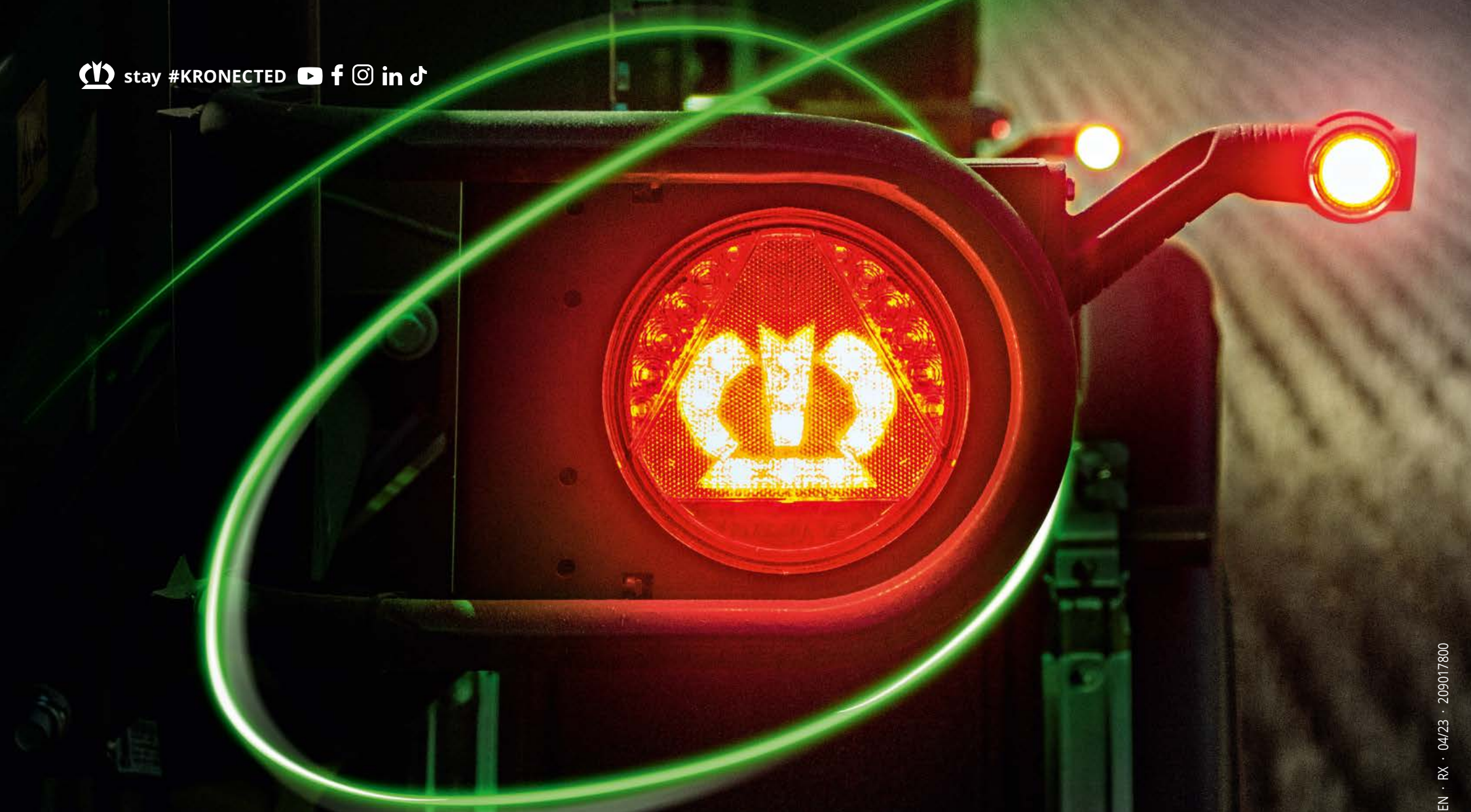


Technical data



			RX 360 GL	RX 360 GD	RX 400 GL	RX 400 GD	RX 430 GL
Capacity (to DIN 11741)		approx. m³	36	36	40	40	43
Pick-up working width (to DIN 11220)		Approx. m	2.01	2.01	2.01	2.01	2.01
Cutting unit Cutting lengths with 23/46 blades		approx. mm	74/37	74/37	74/37	74/37	74/37
Discharge rollers Standard/option		Number	-	2/3	-	2/3	-
Tractor power		from approx. kW/hp	110/150	110/150	125/170	125/170	125/170
Dimensions	Length	Approx. m	10.06	10.06	10.06	10.06	10.06
	Width *		2.98	2.98	2.98	2.98	2.98
	Height *		3.95	3.95	3.95	3.95	3.95
Platform height		Approx. m	1.57	1.57	1.57	1.57	1.57
Track width		Approx. m	2.05	2.05	2.05	2.05	2.05
Permissible drawbar loads **		t	4	4	4	4	4
Permissible axle loads ***		t	20	20	20	20	20
Tyres	800/45 R 26.5 TL 174 D		Standard	Standard	Standard	Standard	Standard
	800/45 R 26.5 TL 174 D Trac		Option	Option	Option	Option	Option
	710/50 R 30.5 TL 173 D****		Option	Option	Option	Option	Option
	800/45 R 30.5 TL 176 D****		Option	Option	Option	Option	Option
Filling / unloading rate		approx. minutes	6-9/2	6-9/3	6-9/2	6-9/3	6-9/2
Ground clearance*****		Approx. m	0.75	0.75	0.75	0.75	0.75

* varies depending on the equipment, ** with bottom hitching and ball-head attachment 80, *** the loading volume varies depending on the equipment, ***** with hydraulic articulated drawbar. All figures, dimensions and weights do not necessarily correspond to the standard equipment and are non-binding, subject to technical changes.



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