



MX

Self-loading and
forager-filled forage wagons







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Self-loading and forager-filled forage wagons

- Fully-featured multi-purpose forage wagon
- Massive pick-up and feed rotor
- Cutting system with 41 standard blades
- Robust steel floor

MX defines our range of high-capacity forage wagons that offer capacities from 33 m³ to 40 m³. Genuine dual-purpose forage wagons, they run in both the grass harvest chain as self-loading machines with discharge rollers and in the maize transport chain as forager-filled silage trailers. These machines score on versatility, reliability, efficiency and flexibility.

Dual-purpose forage wagons	
MX 330 GL and GD	4
Dual-purpose forage wagons	
MX 370 GL/ GD and 400 GL	6
Hitch system, drawbar and running gear	8
The EasyFlow pick-up	10
The feed rotor	12
The blade grinder –	
SpeedSharp	14
The loading area	16
The on-board electronic system	
& operator terminals	20
Technical data	22



The dual-purpose forage wagons MX 330 GL and GD

- Self-loading and forager-filled wagons
- Steel structure & steel extensions, 33 m³ capacity
- Optional hydraulic silage hatch at the top of the headboard
- Discharge rollers are an option
- Cutting rotor with 41 blades

Its steel sides, the volume of 33 m³, and the massive tandem-axle chassis with steered rear axle make the MX 330 a genuine dual-purpose wagon. The machine is available with discharge rollers (GD) and without the rollers (GL). A hydraulically operated silage hatch at the top of the headboard is an option for easier filling from the leading forager.



The MX 330 GL/GD as self-loading wagon

Fast and consistent fills are key and attributed to the wide work width of the pick-up and the cutting rotor as well as the wide and short feed chamber. Blades with wavy edges and plated rotor tines ensure a particularly high quality of cut.



The MX 330 GL/GD as forager-filled wagon

Its rugged steel structure and the high 18t axle load make the MX 330 the most reliable and productive companion for the forage harvester.



Safe road travel

The long and slim drawbar, the compact build, and the tandem axle with either a steered rear axle or a mechanical force-steer option optimize ride performance and stability – both in the field and on public roads.



The dual-purpose forage wagons MX 370 GL/GD and 400 GL

- Self-loading and forager-filled wagons
- 37 m³ or 40 m³ capacities
- The all-steel machine is available with and without discharge rollers – as GD or GL version
- Hydraulic pivoting headboard
- Cutting rotor with 41 blades

The two dual-purpose forage wagons MX 370 and MX 400 feature the proven designs and innovative technical solutions of the RX series as the base for implementing new and practical ideas.



Serving as self-loading forage wagons

The extra wide pick-up unit, the wide feed chamber and the hydraulic pivoting headboard ensure fast and consistent fills to maximum capacity. For a superior cutting quality (scissor-like cuts), the gap between a blade and a feeding tine is extremely small.



Serving as forager-filled trailers

Offering capacities of 37 m³ and 40 m³ and a high gross weight of up to 22 t, the MX 370/400 models make perfect silage trailers that unload the material extremely fast. This dual use option makes MX an even more productive machine.



Safe transport

The long and slim drawbar, the compact build, and the tandem axle with either a steered rear axle or a mechanical force-steer option.



Suspension system, drawbar and running gear

- Standard ball hitch for bottom attachment
- Articulated drawbar for high ground clearance
- Drawbar suspension for comfortable rides

Varying conditions, high payloads, challenging unloading sites and long-distance travel at speed are challenges that call for a very stable, safe and shockload cushioning running gear. It is down to the steered tandem axle, the ball hitch and the articulated drawbar that the MX is up to any job and situation.



Bottom-mount drawbar

All MX models are specified with the standard ball hitch 80 which offers a tongue load of 4 t, a level of specification that accounts for hard wearing and maximum manoeuvrability. Mechanical force-steering is available as an option. Simply attach the steering rod to the ball 50 and the tractor.



Articulated drawbar

The MX masters even narrow bends. Its long, slim and suspended drawbar is articulated and cushions the shockloads. Two massive rams lift the drawbar no matter the load and give the wagon plenty of ground clearance no matter the situation. As an option, an automatic system stores and retrieves the two drawbar positions automatically.



Convenient control

For easy attachment and removal, the articulated drawbar is raised and lowered by pressing a button on the machine.



The tandem axle

The MX runs on tandem axles with mechanical suspension as standard specification. A hydraulic levelling system is available as an option. The system ensures the weight is always distributed uniformly to all four wheels to give optimum rides and stability. A range of tyre options is available to suit all harvest conditions.



Steered rear axle option on the rear axle and reduces scuffing and tyre wear. The system is set up and monitored by means of pressure gauges. An electronic power steering system is also available which allows operators to intervene when working in sloping fields or on the clamp for example.



Cross ply tyres

710/45-22.5 162A8
Width: 720 mm
Ø: 1.235 mm



Radial ply tyres

710/45 R22.5 165D
Width: 725 mm
Ø: 1.220 mm



Radial ply tyres

710/40 R22.5 162D
Width: 705 mm
Ø: 1.170 mm



Radial ply tyres

800/45 R26.5 174D
Width: 800 mm
Ø: 1.350 mm

Tyres

A range of tyre options is available in the following sizes to suit all harvest conditions: 710/40 R 22.5, 710/45 R 22.5, 710/45 R 26.5 and 800/45 R 26.5.



The EasyFlow pick-up

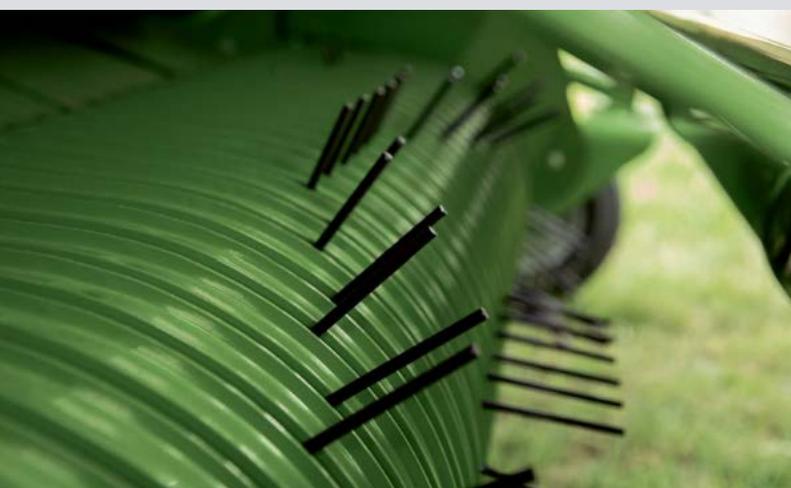
- Wide pick-up for clean and comprehensive gathering
- No cam track means few moving parts, minimized service and maintenance and quiet running
- 6.5 mm double tines with large-diameter coils
- Tines arranged in a 'W'-line

The EasyFlow pick-up excels by virtue of clean and thorough gathering – at high work rates and at low wear rates even in difficult conditions. Made up of few moving parts, the unit runs extremely quietly and dependably.



The pick-up

Working at a width of 1.8 m (to DIN 11220), the pick-up gathers also wide swaths no problem and feeds the material to the cutting rotor in a very consistent flow. Spring-suspended and pivoting, it excellently adapts to ground contours.



Tines arranged in a 'W'-line

The 6.5 cm diameter double tines with large coils are particularly hard-wearing. Arranged in a wavy pattern, six rows of tines feed the material from the ends to the middle of the rotor, thereby preventing crop from building up as the machine travels through bends for example and spreading it evenly across the full width of the cutting rotor.



The crop press roller

The crop press roller supports the pick-up in gathering the material effectively. Its height is adjusted easily and without tools to match the current crop, the swath volume and ground speed.



The guide wheels

The pick-up runs on two castoring gauge wheels which pivot flexibly. These wheels are height adjusted without tools and can be complemented by two extra and optional gauge wheels at the rear. These extra wheels do not run in the tractor wheelings and help contouring in difficult harvest conditions and reducing crop contamination.

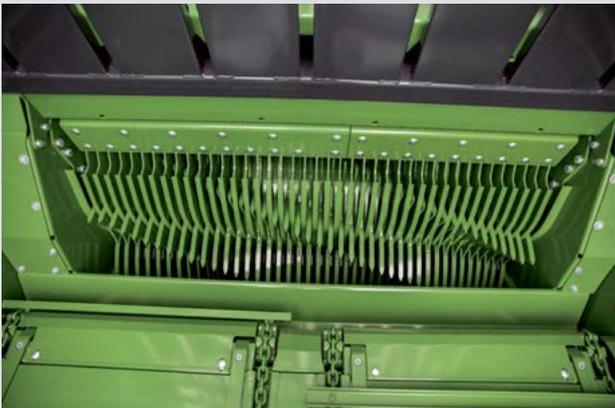




The cutting rotor

- Wide and large-diameter rotor for high intake rates
- Helical tine arrangement for quiet running
- Easy pulling blades for exact and scissor-like cuts

Powerful and low-maintenance, the MX rotor operates very smoothly and feeds the crop super gently and consistently into the machine. The rotor blades give exact cuts, stay sharp for a long time and are very easy to replace.



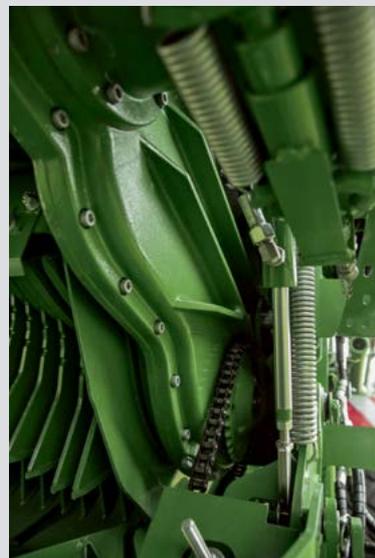
The rotor

The cutting rotor measures 880 mm in diameter and offers a working width of 1,580 mm to handle large amounts of material. The eight rows of helical 17 mm tines have Hardox plates for long service life. The scraper elements, too, are made from hard-wearing Hardox steel. The design ensures the tines feed the crop dependably through the blades for precise and scissor-like cuts and fast and uniform fills.



The blades

The blades have long cutting edges which give particularly light-pulling cuts. The wavy edges give cut very precisely and maintain their sharpness for many operating hours. All blades are identical and interchangeable.



The rotor drive

The rotor is driven by a massive and enclosed, oil-immersed spur gear that withstands extreme strain.



The blade cassette

The blade cassette lowers hydraulically and swings out to the side. After the blades are unlocked on a central lever they are removed and swapped conveniently.



Blade group control system

The central blade group control system controls the cutting length. Operators can select 41, 21, 20, or 0 blades, with 41 blades achieving nominal chop lengths of 37 mm. 0 blades means the system is not cutting.



Individual blade protection

Each blade is individually protected by a tensile spring, the tripping force of which can be adjusted centrally and steplessly. After the blade has tripped, it resumes automatically its cutting position.



The blade grinder – SpeedSharp

- Grinds the blades conveniently and quickly
- Sharpening 41 blades takes less than four minutes
- Gives all blades a consistent grind
- Reduces fuel consumption and improves the forage quality

The automatic SpeedSharp blade grinder sharpens your blades in just a few minutes. Grinding the blades right on the machine and on the site gives you great flexibility and saves time you would otherwise spend on replacing dull blades – an important detail when your aim is consistently high-quality forage and good fuel economy.



Getting ready

To get ready for grinding, pull out the blade cassette and swing it alongside the machine. The grinder folds up and into position above the blades, which are then fixed in place with the retaining comb.



Hydraulic connection

Two hydraulic lines are coupled to the on-board chest to make the connection to the grinder drive.



At the touch of a button

The blade cassette and the blade grinder are operated conveniently by pressing a button on the machine.



Quick and safe

Grinding 41 blades takes less than four minutes. As grinding takes place, the sparks can fly off without doing any harm to the machine.



The grinding discs

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



A consistent grind

Each grinding disc is pressed on to the blade by a bevel spring for a high-quality and consistent cut to each individual blade at minimum material wear.





The loading area

- Steel structure and steel floor
- Pivoting headboard
- Double chain-and-slat floor slopes at front
- With or without discharge rollers

The MX dual-purpose forage wagons with steel structures are made to excel in the toughest conditions. The pivoting headboard makes for easier filling - both from the forage harvester or the pick-up. The heavy-duty chain-and-slat floor feeds even heavy forage swiftly and consistently to the rear for unloading.



The pivoting headboard

The MX 370 and 400 models have a hydraulic headboard which pivots to various positions to support the filling and unloading processes. For example, when the machine is filled by a forage harvester, the headboard pivots all the way forward to maximize the capacity (left). By comparison, when the machine is gathering material through the pick-up, the headboard is nearly vertical to optimize the filling process. Once the loading area is filled to capacity, the headboard pivots towards the tractor to expand the capacity by 4 m³. To speed up unloading, the headboard can pivot back and forth and support the work of the floor chain.



The silage hatch

The MX 330 has a vertical headboard which is available with a foldable hatch at the top as an option. At the touch of a button, this hatch folds forward for easier filling from the forager whereas it is folded rearwards when the machine is loading grass via the pick-up.



Crop covers

After the machine is filled to capacity, you can protect the material with a pair of crop covers to prevent losses during road travel. The covers are made of high-tensile texture and are operated by two hydromotors that are controlled from the cab-based terminal.



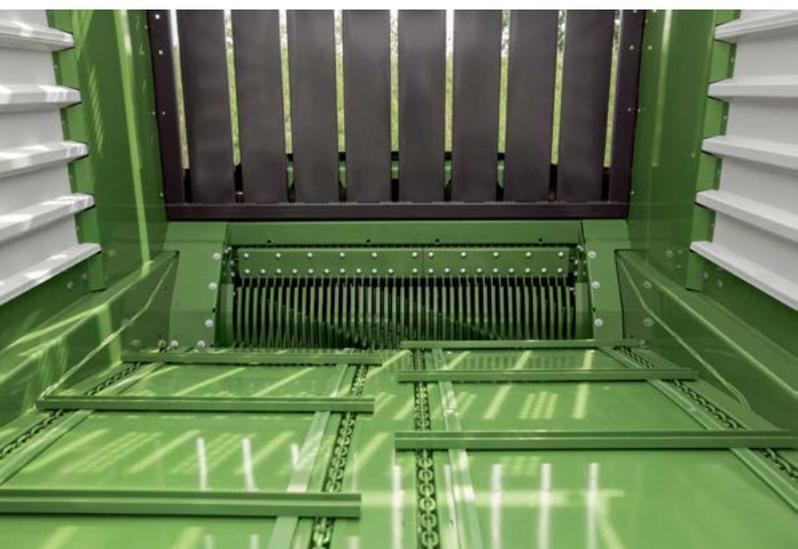
The door

Those MX forage wagons that are fitted with discharge rollers have a large near-side door that gives access to the loading area after you climb the fold-down ladder with a handle on the side for safe ascent.

Lights

It is possible to order optional LED lights for the MX models which can be fitted on the inside and outside of the body. The inside is illuminated by four optional LED light bands that are installed at the top of the sides while up to four LED work lights can be installed on the outside for better visibility. All lights can be switched from the operator terminal.





The chain-and-slat floor

The four floor chains are made of high-tensile tube steel and the slats are made of channel steel. The chains are driven by two hydromotors – one on either side of the machine – and convey the heaviest material fast and effectively to the rear for quick unloading. The floor slopes at its front end, thereby shortening the passageway into the machine and reducing the strain on the crop as well as input power whilst boosting the intake rate.



The automatic loading system

The machine can be specified with optional sensors that enable and control the chain-and-slat floor. The Power-Load sensor measures the pressure that is exerted by the material on the headboard (right) while another sensor at the top of the headboard scans the current angle of the silage hatch (left). The chain-and-slat floor is started automatically as soon as the pressure scanned equals the preset pressure. Depending on the crop, it is also possible to use the two sensors independently of each other.



Unloading via discharge rollers

The MX GD models have two or three discharge rollers which unload the material in a uniform mat. Overload protected by the clutch in the main driveshaft, the rollers discharge the material fast and efficiently.



Uniform mats

The discharge rollers unload the material in very uniform layers. Available in sets of two or three, the bottom roller spins at a higher speed than the top roller(s).



The on-board electronic system & operator terminals

- Clear and convenient
- Easy and user friendly
- ISOBUS compatible

The KRONE Comfort on-board box increases operator comfort as it makes for much easier and faster control of the MX dual-purpose forage wagon. Two different terminals are available to cater for different applications and needs.



It's no luxury

The Comfort electronic system is ISOBUS compatible and is required for the optional features such as the automatic loading / unloading system.



Oil is supplied on demand only

The comfort hydraulic system is loadsensing-compatible, which means, if hitched to a load-sensing linkage, oil will be supplied only on requirement. This reduces the load on the tractor hydraulics. On tractors without loadsensing it is also possible to operate the machine via the constant pressure hydraulic system.



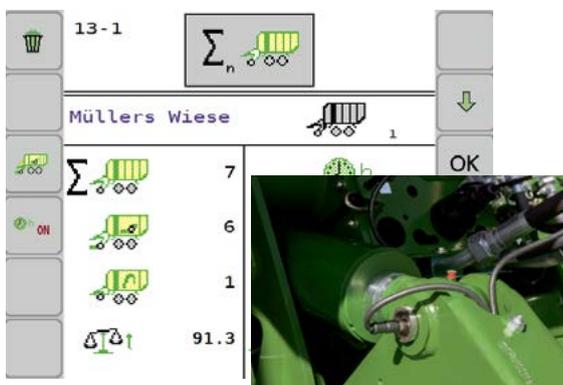
Delta terminal

The Delta terminal has a 5.5-inch touch screen, a touch pad with 12 function keys and one dial. From here, operators control all loading and unloading functions, collect and store machine data and carry out diagnostic routines. They can also connect an optional joystick (AUX) and a CCTV camera for added comfort.



More operator comfort

The CCI 1200 operator terminal with 12-inch touchscreen offers the same features as the Delta terminal plus it allows operators to split the screen in two views, for example to see all machine control elements in one view and the camera footage in the other.



Weighing the crop the easy way

The optional weighing system uses sensor pins on the chassis and on the articulated drawbar to determine and store the weight of the load.



Existing third-party terminals

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





Technical data

- 33, 37, or 40 m³ capacity
- Complete with blade cassette
- With or without discharge rollers
- 18 t gross weight

		MX 330 GL	MX 330 GD	MX 370 GL	MX 370 GD	MX 400 GL
Capacity* (to DIN 11741)	approx. m ³	33	33	37	37	40
Pick-up working width (to DIN 11220)	approx. mm	1,800	1,800	1,800	1,800	1,800
Cutting system Cutting lengths with 21/41 blades	approx. mm	74/37	74/37	74/37	74/37	74/37
Discharge rollers Standard/option	Number	-	2/3	-	2/3	-
Tractor power	approx. kW/hp	88/120	88/120	103/140	103/140	103/140
Length		9,290	9,290	9,290	9,290	9,890
Width	approx. mm	2,900	2,900	2,900	2,900	2,900
Height		3,820	3,820	3,820	3,820	3,820
Platform height	approx. mm	1,500	1,500	1,500	1,500	1,500
Track width	approx. mm	2,050	2,050	2,050	2,050	2,050
Drawbar tongue load (Bottom-mount system)	t	4	4	4	4	4
Axle load (with tandem axle)	t	18	18	18	18	18
Tyres						
710/40 R 22.5 TL		Option	Option	Option	Option	Option
710/45 22.5 162 A8		Standard	Standard	Standard	Standard	Standard
710/45 R 22.5 TL		Option	Option	Option	Option	Option
800/45 R 26.5 TL 174 D		Option	Option	Option	Option	Option
800/45 R 26.5		option	option	option	option	option
Filling / unloading rate	approx. min.	6-9/2	6-9/3	6-9/2	6-9/3	6-9/2
Hydraulic artic. drawbar ground clearance	approx. mm	620	620	620	620	620

*May vary depending on individual specification

All specifications, weights and dimensions do not necessarily comply with standard specifications and are therefore not binding.

Maschinenfabrik Bernard Krone

Perfect in every detail



Innovative, proficient and close to our customers – these are the keywords that mark the philosophy of our family-owned company. As a forage specialist, KRONE manufactures disc mowers, tedders, rakes, forage wagons, round and square balers as well as the high-capacity and self-propelled BiG M mower conditioners and our BiG X forage harvesters.

Quality made in Spelle – since 1906.

Your KRONE dealer



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