

NEW

 **KRONE**



GX 440 | 520
GENERAL-PURPOSE WAGONS

NEW

KRONE general-purpose wagons

GX 440 and GX 520 - *the all-rounders in their field*



KRONE GX - jack of all trades
for general work all year round.

Page 4

The unloading principle

Chains pull a floor belt and the head-board to the rear for gentle and careful unloading of a wide variety of cargo.

Page 6

The load area

Light-weight and rugged with height-adjustable sides.

Page 12

KRONE single-piece frame

for reduced dead weight and boosted payload

Page 12

The double-function tailgate

The tailgate folds out of the way or swings up high, giving you maximum flexibility even when your machine has the discharge rollers.

Page 24

The underride guard

swings hydraulically in and out of position for maximum convenience and safety.

Page 22

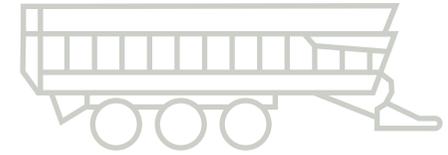
Operation

Ease of use is the top priority. ISO-BUS-compatibility and multiple auto functions provide maximum operator comfort.

Page 20



The jack of all trades



KRONE GX:

The all-rounder in the KRONE transport fleet hauls all kinds of crop and cargo.

Farming is about logistics and flexibility is key for the success of your business. As an all-round machine, the KRONE GX general-purpose wagon ticks exactly this box. It was designed to a unique concept which allows you to haul nearly any type of agricultural cargo.

The jack of all trades.

KRONE GX – the machine for year-round use

Maximum versatility *translates into maximum productivity*

Rapeseed

The sealed body transports the smallest seeds without losses.



Grass

Powerful discharge rollers unload the material in a wide and uniform mat.



Manure and compost

Telescoping extensions make it so much easier to fill the machine with a wheeled loader or telehandler.



Woodchips

The GX unloads any type of agricultural cargo fast and thoroughly.

SPRING



Seed bags and pallets

The double-function tailgate and the reversible floor drive make a powerful formula for efficient loading and unloading.



SUMMER

Whole crop silage

The articulated drawbar lowers the front end for easy filling from the forager.

March

April

May

June

July

August



Maize silage

The powerful floor drive empties the GX in no time so more time can be spent on compacting.

Potatoes

The floor belt comes into its own in sensible crops like potatoes where it cushions the impact as the tubers drop into the machine.



AUTUMN



Grain

Unload grain conveniently and controlled through the standard-fit grain outlet, using the optional remote control.



Grain maize

Operators appreciate the large inspection window when serving the forager.



WINTER

Snow and straw

The GX doesn't hibernate but continues earning its keep also in the winter months.



Beets

You can lower the extensions for easier loading and reduce the drop heights.

September

October

November

December

January

February

KRONE GX – the design

The headboard and moving floor form *a powerful unit for gentle crop feeds*



The moving headboard
is tilted and supported by two rolls.

The driveline
Two powerful hydro motors operate the chains and the headboard on the GX.

The flat-link chains
pull the floor in either direction.

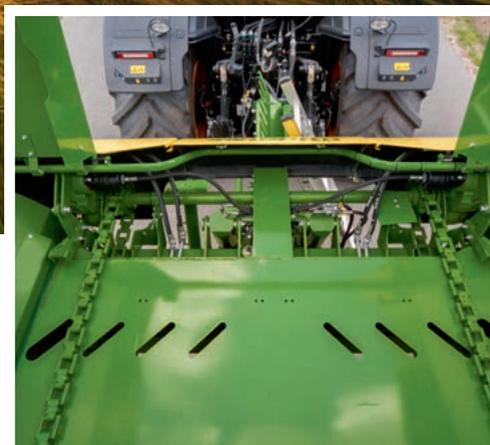
The clamping strip
makes the connection between the floor belt and the pulling chains.

The robust floor belt
is connected to the headboard and the flat-link chains.



Inside the body

The headboard and the floor belt form an integral unit which is pulled by two chains running underneath the floor, moving the material gently to the rear and unloading it without disrupting the texture of the silage heap. This unique concept unloads the material at a consistent rate. When the headboard finally reaches the rear end, the GX is completely emptied. The material is moving along conical sides with smooth surfaces for minimal friction.



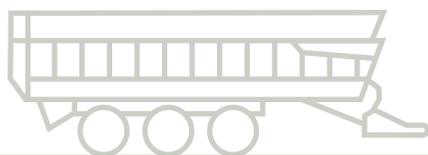
The front end

The unloading unit is driven by two powerful hydromotors and massive gearboxes with an equally massive shaft that synchronizes the drives. This unique system facilitates variable chain speeds and powerful unloading and loading.



Underbelly chains

The massive flat-link chains that run under the floor are connected to the floor belt by a clamping strip and to the headboard by tightening springs. The materials used here are wear-resistant for uncompromised reliability and lifespan.



GX stands of 'General'

The jack of all trades – *for general purposes*



Silage

The articulated and hydraulic drawbar plus the silage extensions make the GX the perfect trailer for serving the forage harvester – in silage maize, grass silage and whole crop silage. Typically KRONE, the general-purpose wagon is cleared out in no time so more time can be spent on compacting to make quality feed.



Combinable crops

The GX general-purpose wagon transports all crops of all seed sizes whether coarse or fine – panicles, legumes and also oil-seeds. Its grain outlet at the rear is a standard feature and allows operators to unload grain in a controlled way at the store.



Root crops

The GX is also an ideal trailer to haul any conceivable cash crops, especially crops that are sensitive to damage such as potatoes, beet and even vegetables. The optional radio remote control helps unload crops that tend to roll in a controlled way.





As a general-purpose wagon, the GX is equally at home on the road and in the field. The running gear offers great ride comfort, good road stability and light running.



Organic fertilizer

The GX also hauls solid manure and compost. You can lower the sides to reduce the filling height and improve operator visibility.



Breakbulk cargo

Use the remote control to operate the floor belt fore and aft when loading Big Bags, pallets or straw bales. The discharge rollers swing up and out of the way, allowing GX to take in any type of cargo for maximum versatility.

The drawbar

Slim and *nimble*



Great ride comfort

The hydraulic drawbar suspension system gives comfy and convenient rides in all types of conditions, absorbing the shock loads instead of transferring them to the tractor. The GX stands for quiet and convenient tracking behind the tractor.



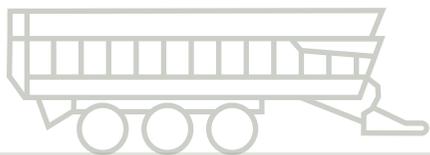
On target behind the forager

The standard-fit articulated drawbar comes into its own when the combination is following the forager, because it allows the trailer to 'seesaw' towards the tractor, presenting the load space to the forager chute for on-target filling.



Flexible unloading

The articulated drawbar allows operators to alter the ground clearance hydraulically from the cab, which is a particular boon on the clamp. You can adjust the clearance flexibly and relative to steepness or slope gradient.





KRONE

Look here! The GX drawbar

- **Up to 4 t tongue load** from a slim and compact design
- **Two massive hydraulic cylinders** move the drawbar in any position
- **Curved collision protectors** protect the tractor tyre in tight turns
- Standard suspension **for convenient rides** in fields and on roads

The hydraulic articulated drawbar makes the GX general-purpose wagon a smarter machine. This simple but very functional design eliminates a hydraulic stand for attachment to the tractor. As it can lower the front end, eliminates the headboard hatch and optimizes the filling process by raising the rear end. In extreme conditions, GX offers maximum ground clearance and variable tongue loads.

Hose holders

All hydraulic and electric lines are neatly stored at the front end.

Excellent parking

The double holder holds the steering rod and the drive shaft.

Straightforward stand

The stand folds mechanically, requiring no extra hydraulics on the stand.

The load area

Huge volume, *low dead weight*



Huge capacity

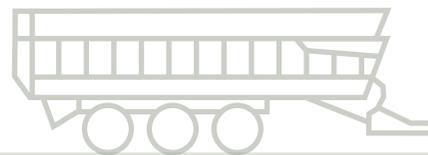
Offering a gross weight of up to 34 tonnes and a volume of up to 44 m³ and 52 m³, the KRONE GX gives you enormous transport capacities. The conical sides provide a wide opening top for easy filling and minimal losses. The patented single-frame concept and the lightweight design translate into an enormous payload.

Lightweight and robust

Specially developed GRP sides are light-weight by design and held by massive stanchions, making a high-stability structure. This and the seals all-round make the GX the suitable trailer for hauling all types of agricultural cargo – from rape seeds to beets. The sloping mudguards ensure no debris collect here only to drop to the ground during road travel.

Perfect visibility

The headboard has two large acrylic glass windows for inspecting the cargo space, offering a clear view into the machine for corrective steering and optimum filling from the forager.





Huge cargo space

- **Huge capacity:**
44 m³ to 52 m³ bodies (DIN 11741)
- **Single-frame concept** for a lower dead weight and high payload
- **Lightweight and rugged body**
- **See-through headboard** for optimum visibility
- **Telescoping extensions as an option**

The KRONE GX general-purpose wagon is a high-capacity machine that adapts flexibly to different applications. For example, the telescoping extensions easily vary the volume and adjust the loading height to the job at hand.

Variable height

The GX offers sides that vary their height according to the application at hand for convenient fillings and good operator visibility. Lowering the sides reduces the drop height by 680 mm – a boon when loading sensitive crops such as root crops.

Bolted tailgate extension

Remove the extension to bring down the height when serving a beet lifter, for example.

Rugged tailgate

Wide opening for effective loading and unloading.

Standard grain outlet

Fast and controlled unloading.

Hydraulic underride guard

Flexibility on the clamp and in the grain store



The rear

A general-purpose solution



A perfect crop mat

The discharge rollers unload the material in a perfect mat. Measuring 440 mm in diameter and featuring aggressive tines, the two rollers take on huge masses of material and spread it in a uniform mat. This is the first step in a successful compacting and conservation process.



Clever folding

KRONE GX boasts a very clever tailgate design. The discharge rollers can be attached to the sides or to the tailgate in a matter of seconds. No helper is required to refit the two bolts on either end of the rollers – a clever solution that speeds up changeovers.



Versatility is key

You can attach the discharge rollers to the tailgate and swing them up and out of the way together with the gate for loading the machine conveniently from the rear. Alternatively, you can also remove the rollers in no time – a pragmatic design that offers maximum versatility.

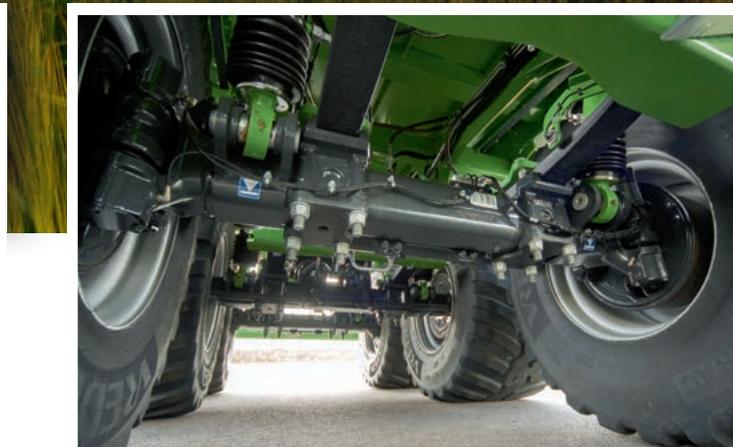
The discharge rollers

- **Two optional discharge rollers** unload the material in a uniform mat
- **Discharge rollers protected** through main drive shaft
- **A simple mechanism** attaches the discharge rollers to the tailboard when not in use
- **Convenient changeovers** without time-consuming removal

The double-function tailgate is another clever feature on the KRONE GX. After all, versatility is key for the GX. The two optional discharge rollers on the KRONE GX 440 and GX 520 models unload the material in a uniform mat for perfect rolling. The powerful and effective rollers are designed to handle the high unloading rate of the floor belt. When not in use, they simply swing up and out of the way.

The running gear

Rugged for the field, *smooth rides on the road*



Effective and safe

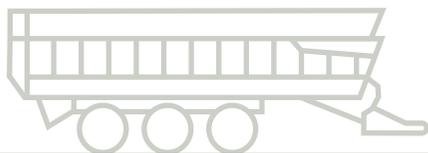
The GX offers great ride stability on roads and in sloping fields. Thanks to a unique configuration, the axles on the hydraulic KRONE running gears benefit from very quiet running. Stability is particularly important when working on slopes or clamping. Smoothing out rough rides, the hydraulic system allows the GX to float across the road.

Quiet running

The two hydraulic cylinders on either side of the running gear share the same hydraulic circuit which distributes the oil and hence the load uniformly across all axles for quiet running, a consistent tongue load and greatest stability.

Lifting one axle

The leading axle on the hydraulic tridem axles can be raised during an empty haul, which is done with the touch of a button, saving tyre wear and costs.



The running gear

- **Hydraulic running gear** for exceptional road stability
- **KRONE tandem axles** for axle loads of up to 20 tonnes
- **KRONE tridem axles** with lift axle and a 27/30 t axle load
- Optional **hydro-pneumatic suspension** for smooth rides in uneven terrain and on bumpy tracks
- **Reliable brakes** courtesy of accumulated brake cylinders that are sourced from commercial vehicles

Our hydraulic axle assemblies were specifically developed for our wagons and trailers. As such they offer exceptional road stability and best rides in extreme situations - which are essential and nearly indispensable qualities in today's haulage business. Thanks to a unique axle configuration, the GX offers great stability and quiet running.

The tyres

800/45 R 26.5 TL 174 D

800/45 R 26.5 TL 174 D Trac

710/50 R 30.5 TL 173 D Trac

800/45 R 30.5 TL 176 D Trac

Up to large 30.5" wheels

Tyres are offered with a range of different treads and carcasses to provide the perfect outfit for every situation. The GX 440 tandem-axle machine or GX 520 tridem-axle machine can run on 30.5-inch wheels for an increased footprint and reduced rolling resistance.

The brake

Safe travel *in all conditions*



The brake

The GX 440 and GX 520 have a dual line air brake as a standard feature. The hydraulic ALB valve controls the braking power relative to the current load. Spring accumulated braking cylinders ensure the machine is parked up safely in any terrain.



Enhanced reliability

EBS is the optional electronic brake system, which comprises ALB, ABS and RSS functions. The roll stability system applies the brakes when it detects a risk of rollover, ensuring greatest stability when taking tight turns at speed. Combined, all these functions lead to an enhanced reliability.



Ground clearance

As a general-purpose wagon, the GX is designed to also operate in extreme conditions. Therefore the braking unit sits on top of the axle where it is protected from dirt for reliable operation and maximum ground clearance.



Stability in the field and on the road

Ever bigger and faster tractors, ever higher trailer capacities and payloads call for a thorough rethink on road and field safety. Therefore KRONE offers the electronic braking system as an option. Sourced from the industrial sector, the system has proven exceptionally well for many years. In addition, intelligent steered axles help protect the ground and provide added safety.

The steering

Tracking behind the tractor *for precision headland turns*



Intelligent caster-steer axle

Caster steering is standard specification on the GX 440 models with tandem axles. The steering system can be locked hydraulically during shunting, clamping and in road work. The system is easy to use thanks to the automatic axle locking feature which kicks in when the machine reaches a pre-set speed or goes into reverse.



Hydraulic forced steering

The steering system on tandem and tridem axle models is attached to the tractor via a standardized ball hitch, a steering rod and a hydraulic master cylinder which controls the oil flow to and from the power steering ram.



Electronic forced steering

The speciality of this steering system is a processor which receives data from a steering angle sensor and connecting rod. The integral hydraulic system supplies the steering cylinder with oil, making GX a very nimble machine. As forward speed increases, operator interference decreases for added road safety. Yet in field mode, the operators can interfere in the steering, which is important on the slope or clamp or when shunting, for example.

Operation

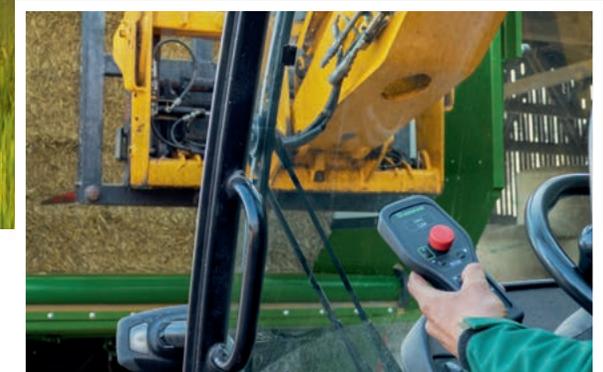
The focus is on the operator – *clear, user-friendly and intuitive*



ISOBUS Operation

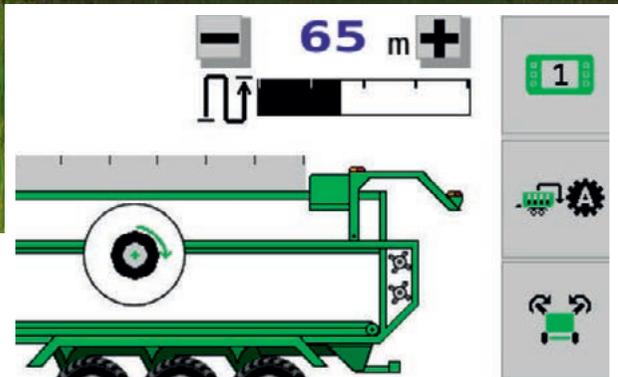
The general-purpose wagon is conveniently operated from the standard-fit ISOBUS control unit. Its clear user interface offers intuitive operation and displays machine data and setup information. You can select your preferred view from configurable buttons. As it is our claim is to provide operators with an uncluttered and self-explanatory user interface and operator environment,

the GX can be operated either from your tractor terminal or from an additional ISOBUS terminal – ideally one from the KRONE CCI family with either the 8-inch or 12-inch display screen showing machine data and the feeds from an optional rear-view camera side by side.



The remote control

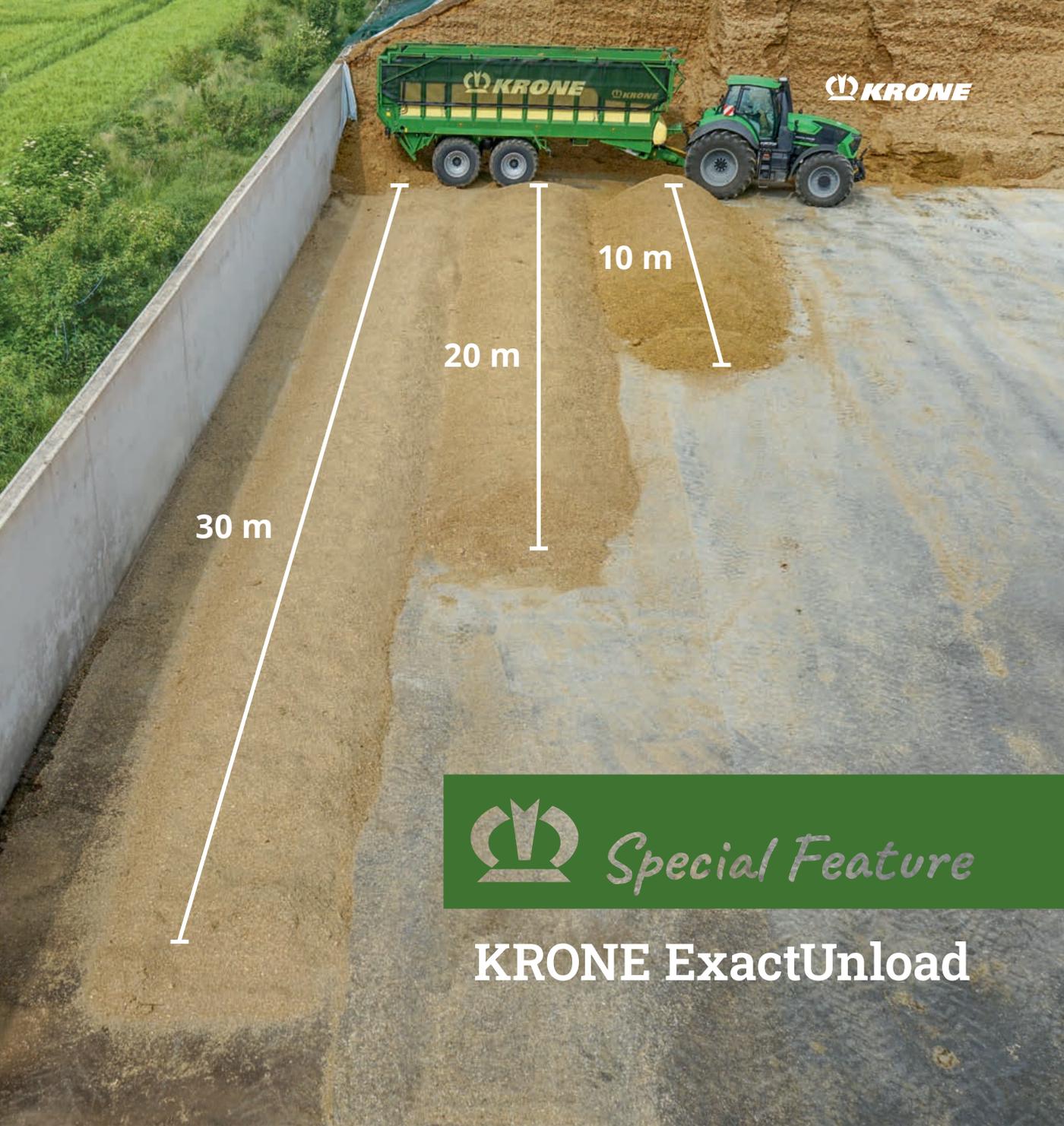
Thanks to the optional radio remote control you can operate the GX remotely from the ground: open and close the tailgate or operate the floor/headboard unloading unit at variable speeds. Stay on top of things without a helper.



KRONE ExactUnload **NEW**

A world first – unique unloading control by length of the pit. With ExactUnload, GX unloads its cargo automatically at rates that match the length of the pit. The operator sets the unloading rate infinitely variably for a course between 10 m and 100 m. ExactUnload controls the unloading rate actively to match the current forward speed of the tractor, helping you deliver the crop in accurate and reproducible heaps. Laying out a nice blanket, the GX is particularly good at filling silage pits and controlled unloading routines in the field.

 For further information please see our brochure on digital features.



 *Special Feature*

KRONE ExactUnload

Safety features

Day and night – *on the road and in the field*



External lights

Up to eight extra sidelights are available for the KRONE GX model as an option, illuminating the axle and the vicinity of the machine for safer and easier shunting and travel alongside the forager at night as well as for added safety on the clamp.



Underride guard

A hydraulic underride guard brings added safety on public roads. You can fold it up to make shunting alongside chasers and harvesters much easier. Besides, no crops can collect on the guard when it is out of the way. It folds automatically into road position as soon as the forward speed reaches 15 km/h.



Cameras are an option

The GX models are available with optional cameras, one feeding images from the interior of the machine and one serving as the reverse camera. The monitor has a switchable colour display screen that takes the hard work out of harvesting and makes it safer too.

Inherently safe

- **LED work lights** for safe operation in the field and safe road travel
- **Excellent visibility** at night
- **Standard position lamps** for high visibility at night.
- Add **reflective strips** for more safety
- **Hydraulic underride guard is a standard feature**

Up to eight LED working lights, sidelights that are visible from far away, reflective strips and an optional camera with display screen are very useful additions that make work at night easier and safer. Together with the underride guard, this equipment provides a maximum of work and road safety.

Visible from afar

LED rear lights complete with indicator lights, reverse and brake lights plus additional LED lights at the top warn motorists ahead of a turn.

Mark out the contours

Sidelights indicate the full size of the machine.



Further options

Small features with *a huge effect*



SmartConnect

The KRONE Smart-Connect telemetric unit is an option for the GX. Offering GPS and Wi-Fi functionalities, it serves as an interface with the data management software. Telemetrics allow managers to track the wagon and record all major data and transmit them to the office. This is the modern way of farming.



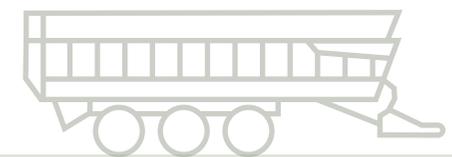
Internal lights

Optional LED light bars can be installed inside the load space for optimized visibility. Indirect lights make filling the machine from a harvester more pleasant. They can be operated together with the tractor lights.



The electronic weighing system

The optional electronic weighing system uses sensor pins on the drawbar and on the tandem/tridem axle with hydraulic pressure compensation. The weight of the load is equivalent to the accumulated drawbar tongue load and axle load. The weight is recorded and evaluated by job and displayed on the display screen.





Reading the current load

The pressure gauges show the current payload by indicating the pressure inside the hydraulic cylinders on the articulated drawbar and in the running gear.



Nothing is lost

Crop covers are an option for the KRONE general-purpose wagons. They secure the crop in swift road transport. The covers open and close hydraulically.

These options are certainly worth the investment.





Technical data

		GX 440	GX 520
Capacity		44 m ³ to DIN	52 m ³ to DIN
Dimensions	Overall length	10,250 mm	11,800 mm
	Total width	2,900 - 2,960 mm	2,900 - 2,960 mm
	Total height	3,890 - 3,950 mm	3,890 - 3,950 mm
Drawbar tongue load		4 t	4 t
Axle load	Tandem axle	20 t	-
	Tridem axle	27 t	30 t
The tandem axle		Standard	-
	intel. caster-steer axle	Standard	-
	mechanical forced steering	Option	-
	electronic forced steering	Option	-
Tridem axle		Option	Standard
	mechanical forced steering	Standard	Standard
	electronic forced steering	Option	Option
Tyres	800/45 R 26.5 TL 174 D	Standard	Standard
	800/45 R 26.5 TL 174 D Trac	Option	Option
	710/50 R 30.5 TL 173 D Trac	Option*	Option
	800/45 R 30.5 TL 176 D Trac	Option*	Option
No. of discharge rollers (option)		2	2
Hydraulic couplers		Load Sensing	Load Sensing
Pto rpm		1,000	1,000
Floor speed m/min		7.5 or 15 in fast advance mode	7.5 or 15 in fast advance mode
Min. tractor power		approx. 88/120 kW/hp	approx. 110/150 kW/hp

*not available for 27t tridem axles

Maschinenfabrik Bernard KRONE

We connect tradition and vision.



Your local KRONE dealer



Maschinenfabrik Bernard KRONE GmbH & Co. KG

Heinrich-Krone-Straße 10

D-48480 Spelle

Phone: +49 (0) 5977 935-0

info.ldm@krone.de | www.krone.de