



# AX

Self-loading/unloading forage wagons



AX

[www.krone.de](http://www.krone.de)

# KRONE AX

Easy loading



- Camless EasyFlow pick-up
- Massive cut-and-feed rotor with wide Hardox plated tines
- Knife bed swings out to the side
- Central knife selection system activates 0, 16, 32 knives
- Sloping chain-and-slat floor
- Automatic loading system
- Discharge rollers protected through main driveshaft
- Optional tandem axle with hydraulic auto-levelling
- CCI-ISOBUS option: One for all





AX – smooth-running and high-comfort rotor wagons that boost your efficiency.

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# AX

## The better way of forage harvesting

- Low power input
- Continuous crop flow
- Optimum quality of cut
- Easy operation



AX – the powerful range of rotor wagons

Model	Function	Extensions	Capacity (DIN 11714)	No. of knives
AX 250 L	Forage wagon	Collapsible, slatted	25 m <sup>3</sup> (883 ft <sup>3</sup> )	32
AX 280 L	Forage wagon	Collapsible, slatted	28 m <sup>3</sup> (988 ft <sup>3</sup> )	32
AX 250 GL	Forage wagon	Solid steel	25 m <sup>3</sup> (883 ft <sup>3</sup> )	32
AX 280 GL	Forage wagon	Solid steel	28 m <sup>3</sup> (988 ft <sup>3</sup> )	32
AX 310 GL	Forage wagon	Solid steel	31 m <sup>3</sup> (1,095 ft <sup>3</sup> )	32
AX 250 D	Self-loading/unloading forage wagon	Collapsible, slatted	25 m <sup>3</sup> (883 ft <sup>3</sup> )	32
AX 250 GD	Self-loading/unloading forage wagon	Solid steel	25 m <sup>3</sup> (883 ft <sup>3</sup> )	32
AX 280 GD		Solid steel	28 m <sup>3</sup> (988 ft <sup>3</sup> )	32
AX 310 GD		Solid steel	31 m <sup>3</sup> (1,095 ft <sup>3</sup> )	32

# More output from less horsepower

Buying a KRONE AX forage wagon means buying into experience and expertise. Innovations such as the camless EasyFlow pick-up, the massive cut-and-feed rotor, the knife bank that swings out to the side, and the chain-and-slat floor that slopes at the front combine to implement higher throughputs, lower input power, more operator comfort and less wear and maintenance.



## AX 250 L, AX 280 L

These models without discharge rollers feature collapsible hay extensions that are operated hydraulically – the ideal machine to pass through low gates and enter low buildings.



## AX 250 D

This is our self-loading/unloading forage wagon with two powerful discharge rollers and collapsible hay extensions that are operated hydraulically. The two rotors at the rear discharge the material in uniform mats for easier clamping.



## AX 250 GL, AX 280 GL, AX 310 GL

These forage wagons feature solid steel extensions for loss-free harvesting. The extensions fold down into the load area for easy machine storage inside buildings.



## AX 250 GD, AX 280 GD, AX 310 GD

These rotor wagon models feature solid steel extensions and up to three discharge rollers at the rear for very fast unloading cycles – the ideal machine for contracting businesses and machinery rings.

# EasyFlow

The camless pick-up

- Leaves an impeccable surface
- Increased throughput and quieter running
- Less wear and maintenance



## EasyFlow – more efficient and more effective

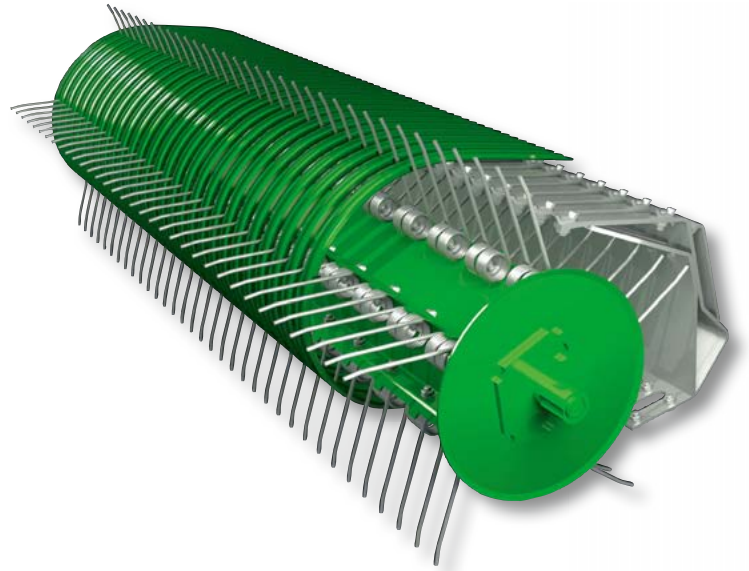
Picking up the crop at a width of 1,700 mm (DIN 11220) and operating at a higher speed, the camless EasyFlow pick-up comes into its own in demanding conditions,

including wide swaths, heavy drop and high workrates. Here, EasyFlow is simply the best.



# Cost effective and powerful

EasyFlow is our camless pick-up that gives you obvious benefits. Using fewer moving parts than a controlled cam track, this system is simpler by design and provides exceptionally quiet running, which results in reduced wear and maintenance as well as reduced service costs. Operating at a 30 % higher speed, EasyFlow is now even more effective and powerful.



## No cam but special scrapers

This pick-up stands out for the special design of its scrapers, which allow the tines to retract and provide a smooth and consistent crop flow into the machine.



## Low-maintenance driveline

The chain is tensioned automatically and overload protected by a shear bolt.



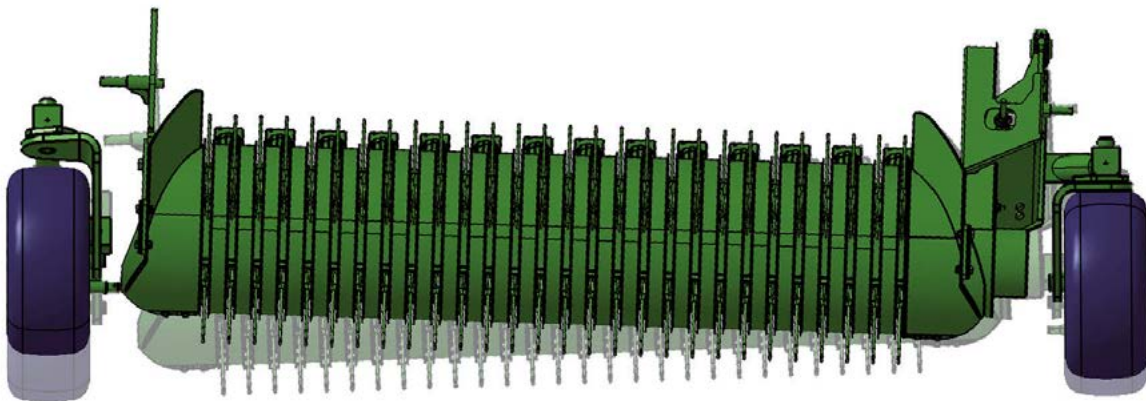
## Closely spaced tines

Boasting five rows of tines spaced 55 mm (2.2") apart, EasyFlow picks up even the short stems.



## Roller crop guard

This crop guard eliminates the risk of pushing up crop in uneven swaths. The machine operates permanently at maximum pick-up and output levels and yet maintains a smooth and consistent crop flow.



**Fully adaptable**

The pick-up pivots in both its mountings and is pushed over the ground, providing full ground contour following in and across the direction of travel for clean rakes and an impeccable surface.



**Excellent tracking**

The pneumatic guide wheels on either side of the pick-up offer height control and adaptation to all conditions. Tracking excellently behind the tractor during the headland turns, they eliminate the risk of scuffing and provide excellent turf protection.





#### **Guide wheels at the rear**

Optional guide wheels at the rear of the unit enhance the overall running and ensure all material is picked up also from soft and wet ground. Not running in the tractor wheelings, these height-adjustable wheels ensure pick-up depth is maintained at all times.



#### **Plenty of ground clearance**

The articulated drawbar with double-acting ram is standard specification and provides for a generous ground clearance of up to 75 cm (2'5.5") – enough to roll on clamps without pushing up material.



# Cut-and-feed rotor

Go with the flow

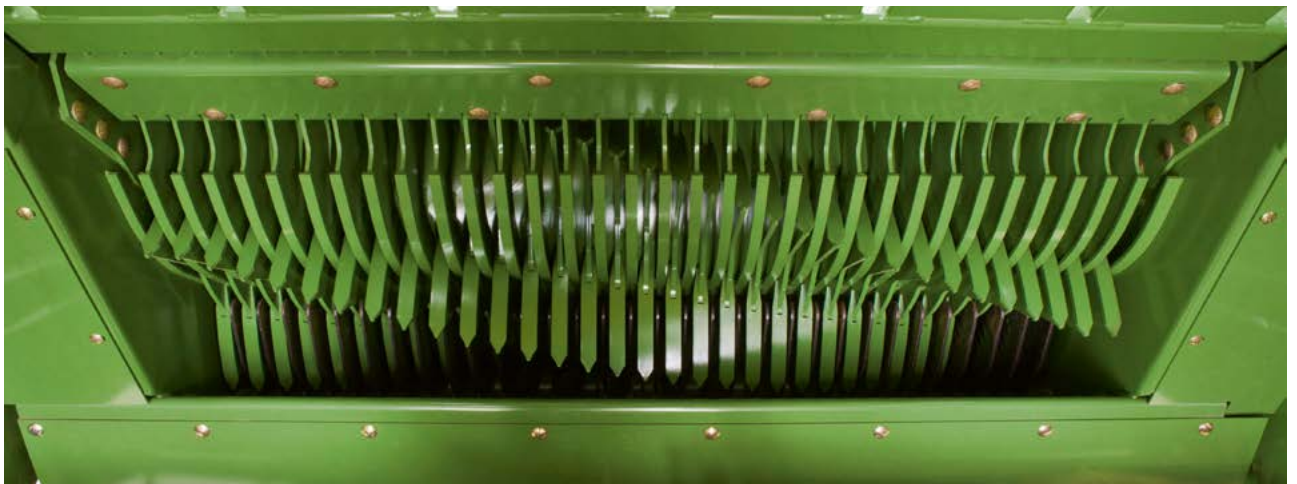
- High-capacity 760 mm (2'6") feed rotor
- Extra wide tine plates for less input power
- High-tensile Hardox steel plates for ultra-long service life



## The better way of forage harvesting

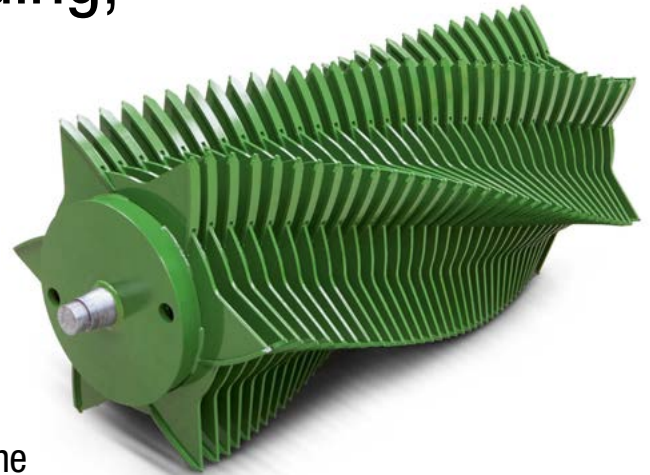
The 760 mm (2'6") diameter and 1,557 mm (5'1") wide AX helix rotor provides extremely powerful cuts and feeds. The tines feature extra wide feed plates that

provide gentle crop treatment, an enhanced quality of cuts and reduced power input.



# Faster loading, easier feeding, better cutting

The AX cut-and-feed rotor combines the benefits of a traditional rotor feeder with those of a swing arm feeder. Powerful yet soft on the crop, this low-maintenance rotor has only a modest power requirement. Depending on model and conditions, the AX self-loading/unloading models can be powered by 80hp+ tractors.



## Extra strong driveline

The automatically lubricated and 1.5" chain copes with the highest loads and guarantees dependable operation in the heat of harvest.



## Hardox for longevity

The cut-and-feed unit is exposed to the highest strains; so we made its tine plates and scrapers from Hardox steel to reduce wear and increase the overall service life.



## Auto lubrication

The pick-up and the rotor drive chain are lubricated automatically for reduced maintenance and added longevity.

# The cutting system

## Cutting edge

- Top-quality and scissor-like cuts
- Down to 45 mm (1.8") chops by up to 32 knives
- Automatic system selects 0, 16, 32 knives
- Individual and infinitely variable knife protection



### The crop is pulled over the blades

The knives cut the crop down their full lengths, so the rotor runs easier and quieter. The wavy blades maintain their sharpness over extended periods of time.

### Scissor-like cuts

This technique prevents the stem slipping through the narrow clearance between the wide tine plates and the knives, which eliminates the risk of squeezing and guarantees perfect cuts.



# Finest quality cuts!

Cutting like scissors... The secret behind this system is its extremely narrow gaps between the wide tine plates and the knives. Up to 32 spring-loaded knives are available and selected by the central knife selection system for quick chop length adjustment.



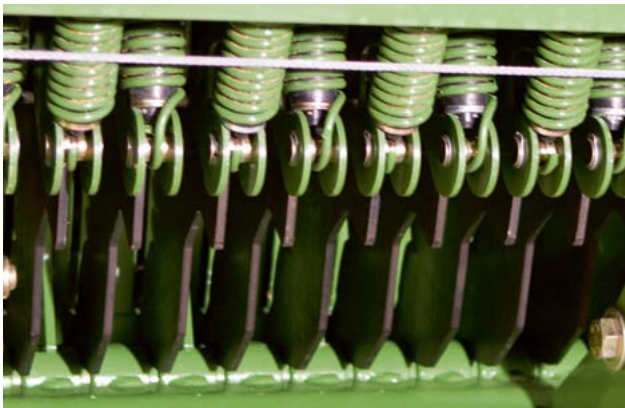
## Cab based control

The knife bank lowers hydraulically to remove blockages. Once the blockage is removed, the bank swings back into position and work is resumed.

## Individual knife protection

Each knife has its own spring-loaded protection, retracting and then returning automatically to its working position after the object has passed.

The knife-locking system's trigger point varies to suit individual conditions. It is set infinitely variably on a central control.



## Automatic knife selection system

The central knife selection system makes it easy for the operator to set the desired chop length. AX operators can select sets of 16 or 32 knives and set the nominal chop lengths to 90 mm (3.5") or 45 mm (1.8"). 0 means the system will not chop.

# Fitting and removing the knives

It's practical and convenient

- Knife bank swings out to the side
- Knives change without tools and lock automatically
- All knives are changed on the left side



## No need to leave the cab

The knife bank swings in and out hydraulically and lowers for easy knife changes.

## Convenient

These controls raise and lower the knife bank for easy maintenance and knife changes. The controls are available on machines that feature the Comfort on-board control system.



# Straightforward and convenient

All knife changes are carried out without tools and from one side of the machine after the knife bank swings out – a time and cost saving system.



## How you do it

After you lower the knife bank hydraulically, move the knives to position 0 and unlock them. Then release the knife bank by operating a lever on the left machine side and swing the unit out.



Remove the knives by pulling them up and out of the bank. It's that easy.



As the knife bank swings back in place, it latches automatically on the right machine side.



# The body with a difference

Easier loading suggests higher workrates

- A sloping floor and a short passage into the load area reduce input power
- Vertical sides eliminate any bridging effect
- Wide and sturdy channel-steel frame



## Strong

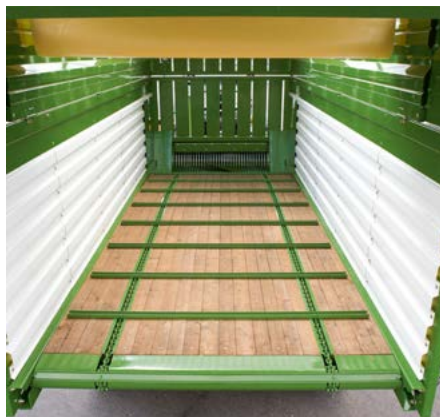
The 200 mm (8") high side beams are made from channel steel and combine with a large number of high-tensile stanchions and hot-galvanised, powder coated and plastic-laminated sides to give ultimate durability and strength. The sides are hot-galvanised, powder coated and plastic-laminated. This is quality through and through.

## Two chains

The models AX 250 L, 250 D, 250 GL and 250 GD have two high-tensile conveyor chains with short and 10 mm (0.4") diameter links that enable swift unloading.

## Four chains

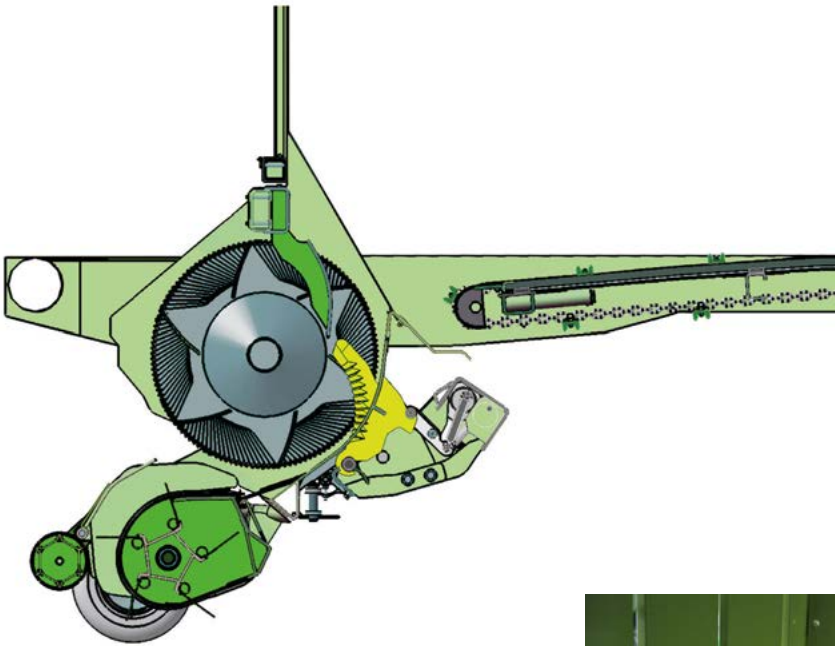
Unlike the AX 250 model, the models AX 280 L, 280 GL, 310 GL, 280 GD and 310 GD have longer bodies that feature four slatted chains.





# Advancing to success

AX is designed to cater for on-farm applications. The sloping chain-and-slat floor is an achievement that brings efficiency and easy-loading at the same time.



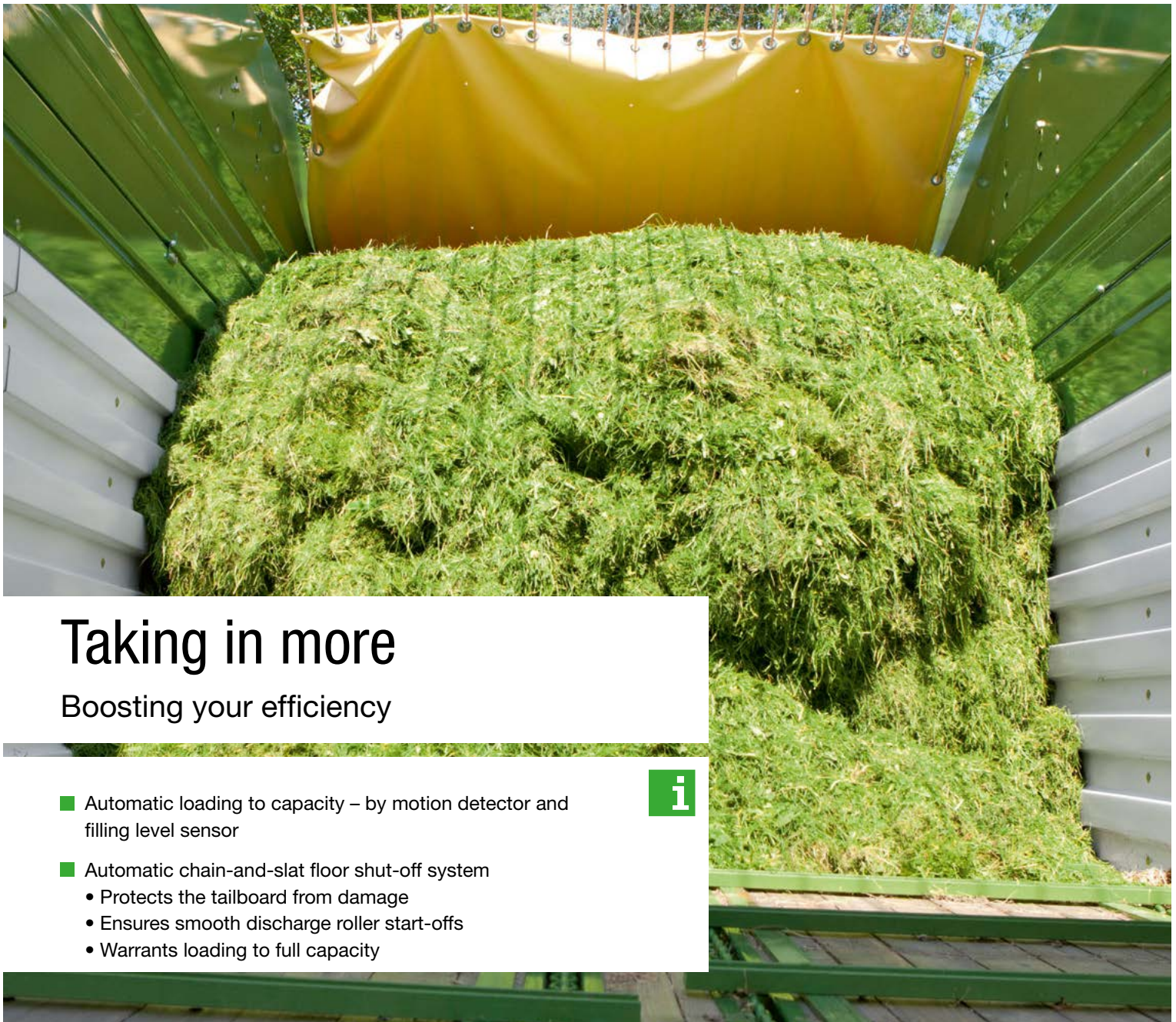
## Powerful advance

The hydraulic chain motor varies the floor's advance speed infinitely variably. The self-unloading forage wagons feature an additional reversing mechanism that moves the material away from the discharge rollers to solve a malfunction, for example.



## Powerful chain-and-slat floor

The chain-and-slat floor slopes at the front and thus reduces the length of the passageway and the input power required to feed the material into the load area, which translates into a faster and gentler crop feed. As a result, the AX models can be operated by 80hp+ tractors. The point is made: These wagons deliver the quality of a rotor cutter at the power input of a swing-arm system.



# Taking in more

Boosting your efficiency

- Automatic loading to capacity – by motion detector and filling level sensor
- Automatic chain-and-slat floor shut-off system
  - Protects the tailboard from damage
  - Ensures smooth discharge roller start-offs
  - Warrants loading to full capacity



### It's safe, too

A sensor on the inside of the AX L and GL tailboard stops the chain's advance as soon as the body is filled to capacity. The floor automatically stops advancing to protect the tailboard from damage.



### The chain-and-slat floor stops automatically

When the machine is filled to capacity and material is pushing the bottom rotor to the rear, the motion detector stops the chains for the discharge rotors to start off smoothly.



# Wasting not an inch in load space

The AX self-loading/unloading forage wagons are extremely powerful by design. Their PowerLoad automatic loading system comprises optional sensors that measure the current compression and filling level of the material to help exploit every square inch of the load space and provide maximum compression at the same time. An AX maximizes haulage capacities and minimizes transport costs.



## 1. PowerLoad sensing

The AX models with steel sides have a strain gauge measure the load on the cross beam down on the front wall. As soon as the load on the gauge reaches a set threshold and hence the material a specific degree of compression, the chain-and-slat floor starts moving automatically – a truly impressive feature that brings consistent fills and good fuel economy.

## 2. Maxing out capacity

The volume sensor on the front wall's top section senses the level to which the forage is filled into the wagon. The AX 250 GL, AX 250 GD, AX 280 GL and AX 250 GD models use a volume sensor that is designed like a fork whereas the AX 310 GL and AX 310 GD models use a sensor on the front wall's folding top section. When one of the systems

pivot beyond a preset angle, they activate the chain-and-slat floor. The in-cab control unit gives operators the flexibility to use either the PowerLoad load sensor or the volume sensor or combine both systems. The systems help reduce operator fatigue and ensure there are no 'empty pockets' in the load area.



# AX 250 L / AX 280 L

Forage wagons with collapsible extensions

- Smooth-running rotor wagon
  - Camless pick-up
  - Sloping chain-and-slat floor
- Hydraulic extensions operated from the tractor
- Ideal for entering low buildings



## No crop is lost

The front tarp cover, multiple ropes and the all-steel tailboard combine to provide effective loading and eliminate the risk of crop loss as the wagon travels on lanes and roads.



## No building is too low

Thanks to collapsible extensions, the machine passes under low gates and enters low buildings no problem, giving you the flexibility to use it for animal feeding and store it in low buildings.



## No need to leave the cab

Rams to both sides of the machine operate the collapsible extensions. The rams are controlled from the cab.



# Machines of variable build height

The smooth-running AX 250 L und AX 280 L rotor wagons with hydraulic extensions feature advanced loading and unloading technology. As you raise the extensions you increase the machine's total capacity to 25 m<sup>3</sup> (883 ft<sup>3</sup>) or 28 m<sup>3</sup> (988 ft<sup>3</sup>) (DIN 11741) and fold them down whenever you enter low buildings.



## Open up and over

You need the tailboard to open wide and over when unloading from a wagon with extensions up. Two hydraulic rams take care of that. The tailboard locks and unlocks automatically.



## Open flat

Unloading forage in low buildings asks for a sophisticated design. Here it is: Adjust the linkage that operates the tailboard so it opens flat and does not reach beyond the collapsed extensions.



## Pumping out masses of material

AX opens wide and over for smooth unloading when the wagon is filled to capacity. Short unloading cycles boost your daily outputs and reduce your transport costs.

# AX 250 GL / 280 GL / 310 GL

Forage wagon with steel extensions

- Robust steel extensions, few components
- Loading to capacity with the automatic loading system
- Strong chain-and-slat floor with four chains on AX 280 GL and 310 GL



## Swift unloading

The material moves smoothly to the rear and down vertical and straight sides. The hydraulic chain-and-slat floor with two (AX 250 GL) or four (AX 280 GL, AX 310 GL) robust chains gives trouble-free and swift unloading.

## Folding extensions

The extensions fold into the load area to reduce the machine's height and make winter storage easier.



# Harvesting without losses

The AX 250 GL, AX 280 GL and AX 310 GL models with strong steel extensions are your professional partner to those who cut fresh forage every day. These 25 m<sup>3</sup> (883 ft<sup>3</sup>), 28 m<sup>3</sup> (988 ft<sup>3</sup>) and 31 m<sup>3</sup> (1,095 ft<sup>3</sup>) rotor wagons (DIN



11741) transport the crop fast and without losses to the clamp. These models, too, feature the sloping chain-and-slat floor and are designed to deliver highest levels of output, efficiency and profitability in forage harvesting.



## Neatly packed

Steel extensions, the solid tailboard, tarp covers and plenty of ropes – all these details combine to haul your chopped silage without losses to the clamp.



## Monster mouth

The tailboard opens wide and the hydraulic chain-and-slat floor vacates the load area quickly and effectively.



## Cab based control

The steel tailboard is operated by two single-acting rams on the sides and is locked and unlocked automatically.

# AX 250 D

Self-unloading forage wagon with collapsible extensions

- Compact dimensions as extensions fold in hydraulically
- Two massive 470 mm (1'6.5") diameter discharge rollers
- Discharging at ultimate power Overload protected driveshaft  
Bottom roller spins at faster speed



## Collapsible

To enter low buildings, the hydraulic extensions fold in to reduce machine height by approx. 600 mm (2').



## Useful

All self-unloading forage wagons feature a side door with fold-down ladder. The door is arranged more to the rear to compensate for the heavier load in the front area of the machine.



## Direct driveline

The power to the discharge rollers flows directly from the main gearbox to the bottom discharge roller.





# Our universal model

The AX 250 D version is a 25 m<sup>3</sup> (883 ft<sup>3</sup>) rotor wagon (DIN 11741) with a cutting system that offers 23 selectable knives, collapsible hay extensions and two discharge rollers. Its collapsible hay extensions allow the machine to enter low buildings and pass under low passageways.



## 1. Massive discharge rollers

Two massive discharge rollers (Ø 470 mm (1'6.5")) have tines arranged in a V to spread the material evenly. The bottom rotor revolves at a higher speed to boost unloading efficiency and crop flow consistency.



## 2. Everything is synchronized!

The roller drive chains are heavy-duty to withstand tremendous loads. Spring-loaded chain tensioners reduce the need for maintenance and enhance the service life of the chains.

## 3. Spreading layer after laying

The discharge rollers unload the material layer by layer and across the full length of the heap for effective clamping. The gearboxes that drive the discharge rollers are extremely heavy duty and overload protected by the main driveshaft.





# AX 250 GD / 280 GD / 310 GD

Self-unloading forage wagons with solid steel extensions

- Heavy-duty 25 m<sup>3</sup> (883 ft<sup>3</sup>), 28 m<sup>3</sup> (988 ft<sup>3</sup>) and 31 m<sup>3</sup> (1,095 ft<sup>3</sup>) steel extensions (DIN 11741)
- 2 or 3 powerful discharge rollers
- Clutch in main driveshaft protects discharge rollers from overload
- Optional cross conveyor



## Cross conveyor belt

AX 250 GD and AX 280 GD are available with a hydraulic cross conveyor as an option. After use the belt is easily stored beneath the machine.



## Operation

The machine is controlled via the on-board Comfort electronic system either from the tractor seat or the control panel on the machine next to the belt.



## Discharge to both sides

Discharge the feed to either side and adjust the ration by varying floor advance and machine speed as you drive down the passage.



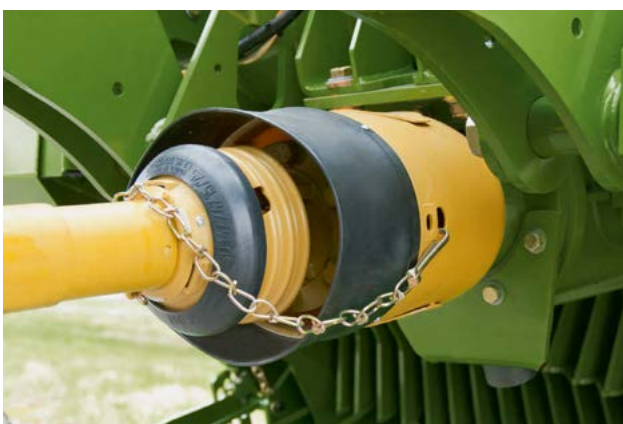
# Reaping success

The first step in making quality silage is spreading the material in uniform mats on the clamp. The AX models with steel sides and up to three massive rear rotors discharge the material layer by layer and across the full length of the heap for effective clamping. The chain-and-slat floor slopes at the front and reduces input power and increases the overall capacity.



## The heavy-duty driveline

Strong chains and spring-loaded chain tensioners transfer the drive power efficiently and without losses to the rollers. A motion detector on the bottom roller shuts off the floor to ensure the rollers start off easily.



## The direct driveline

The direct driveline warrants dependable unloading. The main driveshaft has an integral overload clutch that protects the rotors and speeds up the unloading process, saving time and boosting the machine's efficiency.



## Three rotors for triple power

The large-diameter discharge rollers are very powerful. Specify your forage wagon with an optional third roller and you will spread the material in even more uniform mats. This third rotor is driven by the same sprocket that drives the rotor in the middle.



# Machine operation

Tailored to your needs

- Convenient
- Clear
- CCI-ISOBUS – one box suits all systems



## Medium on-board control

The Medium on-board electronic system with Alpha operator terminal is base specification on the AX self-loading/unloading forage wagons.

## Comfort on-board control

The Comfort electronic system is ISOBUS compatible and is required to operate optional components like the automatic loading / unloading system.

## Loadsensing

The Comfort-level hydraulic control system is compatible with load sensing systems. Load sensing systems control the oil flow and the oil only when it is required by the wagon, which reduces the strain on the tractor.









# Optimum operator comfort

Ease of operation is as essential as high output and high efficiency. Therefore, KRONE AX is available with a number of optional features to meet your individual needs. Choose among the Medium on-board electronic box in combination with the Alpha operator terminal and the Comfort on-board electronic system in combination



either with the Delta operator unit or CCI 200 unit. Alternatively, you can order the appropriate electric lines to connect the system to an existing ISOBUS terminal.

## Your choice

<p>Medium on-board control box</p> 	<p>Alpha terminal</p> 	
<p>Comfort on-board control box</p> 	<p>Delta terminal</p> 	
	<p>CCI 200 terminal</p> 	<p>Existing third-party terminal</p> 



## Practical and convenient

The shock-proof ‚Medium‘ and ‚Comfort‘ on-board electronic boxes are as easy to handle, read and operate as the CCI ISOBUS control terminal. They feature backlit buttons that reduce operator fatigue during those long shifts well into the night. The CCI terminal is a universal operator control unit that is compatible with a wide variety of ISOBUS implements from many manufacturers.



### Alpha terminal

The Alpha operator terminal on the AX self-loading/unloading models controls the pick-up, the articulated drawbar, the chain-and-slat floor, the knives, the tailboard and the work lights. The bar graph reflects the floor's current advance speed, which is changed from the two buttons next to the graph. LEDs indicate all functions including the optional steer axle locking function.



### Delta terminal

This terminal offers operators full fingertip control of all loading and unloading operations. Here you retrieve the number of hauls and operating hours as well as diagnose potential malfunctions. The backlit digital display screen provides an excellent overview of all machine functions. In addition, the Delta terminal controls the automatic loading and unloading system and the automatic steer axle locking feature as well as the cross conveyor belt, silage additives and the floor's fast advance speed. You can operate the knife bank also from two controls next to the unit.



### CCI 200 ISOBUS operator terminal

This operator box not only offers the same control functions as our Alpha and Delta terminals, but it is also compatible with third-party ISOBUS equipment. The unit offers an ultimate level of operator comfort and a color touchscreen, a shut-off key that stops all current electric functions, a task controller for job data processing and inputs for an extra joystick (AUX) and a CCTV camera.



### Delta terminal and CCI 200 terminal with AUX port

An extra joystick (AUX) duplicates key terminal functions on the joystick. All controls on the stick are fully customizable.



### ISOBUS operator interface on the tractor

This operator interface is useful when operating the AX models from an ISOBUS tractor. The interface offers the additional feature of locking the steer axle automatically when the combination reverses or when it exceeds a programmed speed, for example 30 km/h (18 mph). If the tractor is not equipped with an ISOBUS terminal, you can opt for the CCI 200 terminal to enable ISOBUS control.





# Tandem axles

## Safe travel

- Unsuspended high-clearance tandem axle
- Spring-loaded axles with axial draft arms
- Tandem axle with hydraulic auto-levelling and caster steering



### Bespoke tyres

Select the tyres that best suit your applications. Wide tyres give easier pulling on soft ground and reduce the risk of compaction.



**Cross ply tyres**  
500/50 – 17 TL



**Cross ply tyres**  
500/50 – 17 TL



**Cross ply tyres**  
500/55 – 20 TL



**Radial ply tyres**  
620/40 R22 5 TL



**Radial ply tyres**  
710/40 R22.5 TL



# Enjoy a safe ride

Heavy-duty axles are a must, if you are looking for high capacities and swift travel between the field and clamp. KRONE offers a variety of tandem axle systems that cater for various vehicle weights and requirements. Enjoy the peace of mind that comes from using the best equipment for the job at hand.



## High-clearance tandem axle with axial draft arms

Featuring a high ground clearance and an excellent climb, the low-maintenance and unsuspended high-clearance tandem axle, which is rated to 10 tons, is the ideal assembly to run on the clamp.

## Draft arm guidance

This assembly features extra draft arms between the undercarriage and the axles to give maximum stability and easy pulling. The beefy arms pull the axles and provide guidance at the same time – for best performance on the clamp and in curves.



## Suspended axle assembly

The suspended tandem axles with axial draft arms, parabolic springs and equalizer run on large 620/40 R 22.5 TL 148 tyres and are rated to 16,000 kg or 14,000 kg (35,273.6 lbs or 30,864.4 lbs) when small tyres are fitted.



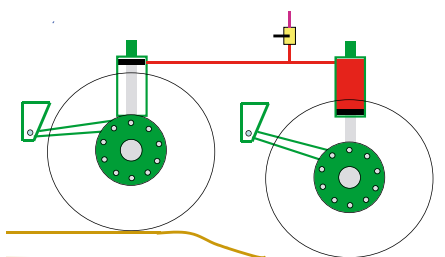
# Hydraulic auto-levelling

Heavy-duty axles should be a must, if you are looking for high capacities and swift travelling between field and clamp. The caster-steer tandem axle with hydraulic auto-levelling provides superior driver comfort and maximum safety on slopes.



## The system

The system is made up of two separate oil circuits, one on each side. So, the oil flows from the cylinder on the front wheel to the cylinder on the rear wheel and vice versa to compensate for undulating ground.



## Unflinching stability

The concept of using two separate and enclosed circuits inside one axle assembly eliminates the risk of rolling and maintains the body level at all times.



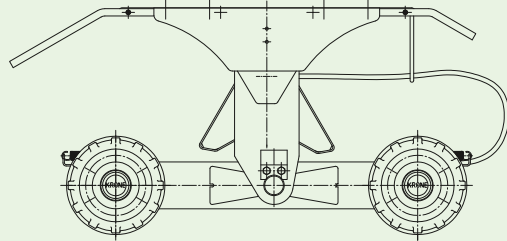
## Gentle on the turf

You can lock the caster steer rear axle via a ram to protect the turf during headland turns and the silage on the clamp.



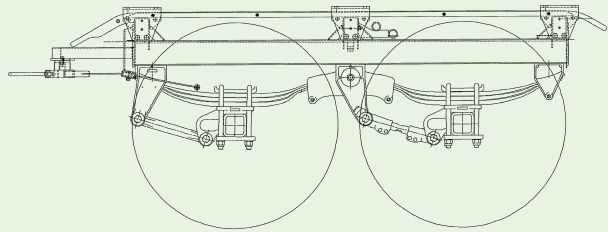
**Unsprung, unsteered high-clearance tandem axle, 10,000 kg axle load  
AX 250 L, 250 GL, 250 D, 250 GD**

Maximum speed	40 km/h (25 mph)
Overrun brake with auto reverse system	
Trackwidth	1,950 mm (6'5")
Axle base	1,030 mm (3'4.5")
Wheel attachment	6-stud
Tyre size	500/50-17
Tyre width	503 mm (1'8")
Tyre diameter	945 mm (3'1")



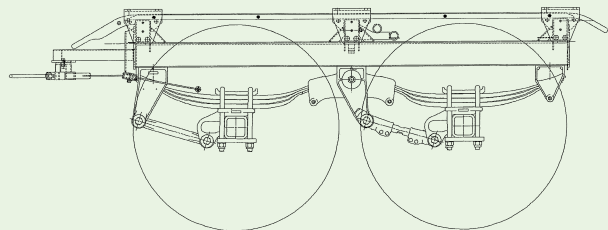
**Spring-loaded, unsteered axle assembly with axial draft arms and 14,000 kg axle load  
AX 250 L, 250 GL, 250 D, 250 GD, AX 280 L, 280 GL, 280 GD, 310 GL, 310 GD**

Maximum speed	40 km/h (25 mph)
Dual-line Auto Load Sensitive Brakes	
Trackwidth	1,950 mm (6'5")
Axle base :	1,200 mm (3'10")
Wheel attachment	8-stud
Tyre size	500/50 - 17
Tyre width	503 mm (1'8")
Tyre diameter	945 mm (3'1")
Tyre size	500/55 - 20
Tyre width	505 mm (1'8")
Tyre diameter	1,060 mm (3'6")



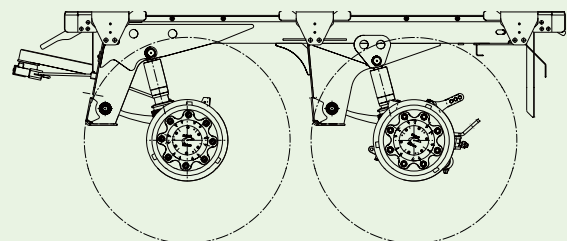
**Spring-loaded, unsteered axle assembly with axial draft arms and 16,000 kg axle load  
AX 250 L, 250GL, 250 D, 250 GD, 280 L, 280 GL, 280 GD, 310 GL, 310 GD**

Maximum speed	40 km/h (25 mph)
Trackwidth	1,950 mm (6'5")
Axle base	1,200 mm (3'11")
Wheel attachment	8-stud
Tyre size	620/40 R22.5
Tyre width	610 mm (2')
Tyre diameter	1,080 mm (3'6.5")
Tyre size	710/40 R22.5
Tyre width	727 mm
Tyre diameter	1.140 mm



**Unsprung, hydraulic auto-level axle, 16,000 kg axle load; caster-steered  
AX 280 L, 280 GL, 280 GD, 310 GL, 310 GD**

Maximum speed	40 km/h (25 mph)
Trackwidth	2,000 mm (6'7")
Axle base	1,220 mm (4')
Wheel attachment	8-stud
Tyre size	620/40 R22.5
Tyre width	610 mm (2')
Tyre diameter	1,080 mm (3'6.5")



# Tractor attachment

Tailored to your needs

- Hitch systems that suit all tractor back-ends
- Hitch rings for pin hitch, hitch hook and pivoting attachment
- Hitch ball



## Bottom-mount drawbar

This system copes with higher tongue loads and attaches to the hitch hook, Piton-fix as well as to pivoting and ball hitch systems.



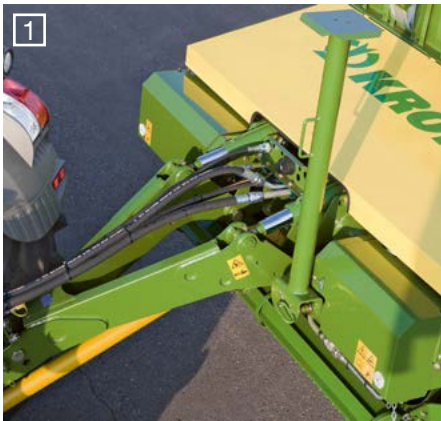
## Pin-hitch drawbar

The drawbar allows picking up massive swaths without problem and couples to the tractor's clevis.



# Everything is possible

As we market our machines in many different countries with as many different statutory requirements and diverse harvest conditions, we developed various attachment systems that cater for your individual needs and your region and that offer the optimum solution to every farmer. Our wide variety of attachment systems offers the right product for any demand at home and abroad, ranging from hitch rings to ball hitch systems as well as high-mount and bottom-mount systems.



## 1. An ideal system

AX features a foldable stand. The articulated drawbar adjusts hydraulically to the tractor's hitch height. It's easy.

## 2. Convenient attachment

The operator can also control the articulated drawbar from the ground on these optional controls. So, you can watch the hitching process.



## 3. Suspended drawbar

The optional drawbar suspension system uses nitrogen tanks on the rams to absorb all shock loadings and provide a superior operator comfort.

## 4. K 80 hitch ball

This hitch ball offers maximum operator comfort and minimizes wear on your equipment as the combination runs smoothly without jolting or experiencing shock loads.



## 5. Hitch ring 40

The 40 mm (1.6") ID hitch ring attaches to the clevis.

## 6. Ring hitch 50

The rigid and turning 50 mm (2") ID hitch ring attaches to hitch hooks and Piton-Fix systems.

# Technical Data

## AX self-loading/unloading forage wagons

		AX 250 L	AX 250 GL	AX 250 D
Capacity (DIN 11714)	ca. m <sup>3</sup> /ft <sup>3</sup>	25/883	25/883	25/883
Length	mm	8.100 (26'7")	8.100 (26'7")	8,850 (29'0.4")
Total width	ca. mm	2,515 (8'3")	2,515 (8'3")	2,515 (8'3")
*Overall height	ca. mm	3,460 (11'4")	3,460 (11'4")	3,460 (11'4")
*Overall height, extensions folded	ca. mm	2,970 (9'9")	–	2,970 (9'9")
*Platform height	ca. mm	1,280 (4'2")	1,280 (4'2")	1,280 (4'2")
Track width	ca. mm	1,950 (6'5")	1,950 (6'5")	1,950 (6'5")
Tyre size		500/50-17 (500/55-20) (620/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5)
Rated drawbar tongue load top mount system with air brake	kg/lbs	1,500/3,306.9	1,500/3,306.9	1,500/3,306.9
bottom mount system	kg/lbs	(1,500/3,306.9)	(1,500/3,306.9)	(1,500/3,306.9)
Axle load	kg/lbs	10,000/22,046 (14,000/30,864.4) (16,000/35,273.6)	10,000/22,046 (14,000/30,864.4) (16,000/35,273.6)	10,000/22,046 (14,000/30,864.4) (16,000/35,273.6)
Pick-up width	mm	1,800 (5'11")	1,800 (5'11")	1,800 (5'11")
No. of knives	max.	32	32	32
Minimum knife spacing	mm	45 (1.8")	45 (1.8")	45 (1.8")
Discharge rollers		–	–	2
Power requirement	ca. kW/HP	59/80	59/80	59/80
PTO speed	1/min	540	540	540
Compatible with loadsensing systems		Yes	Yes	Yes

\* Base specification, depending on tyres and axle assemblies

( ) Option

**We at KRONE are serious about our aftersales service,** because every operator has at least once seen his harvest chain grind down to a halt because of a downed machine - clearly an experience we all can do without. However,

when this does happen then every minute counts. KRONE is aware of that and operates a dense network of professional dealerships, which operate well-stocked warehouses near your operation. For you to get your parts faster.

AX 250 GD	AX 280 L	AX 280 GL	AX 310 GL	AX 280 GD	AX 310 GD
25/883	28/988	28/988	31/1,095	28/988	31/1,095
8,850 (29'0.4")	8,800 (28'10.5")	8,800 (28'10.5")	8,800 (28'10.5")	9,600 (31'6")	9,600 (31'6")
2,515 (8'3")	2,515 (8'3")	2,515 (8'3")	2,515 (8'3")	2,515 (8'3")	2,515 (8'3")
3,460 (11'4")	3,650 (12')	3,650 (12')	3,850 (12'8")	3,650 (12')	3,850 (12'8")
–	3,160 (10'4")	–	–	–	–
1,280 (4'2")	1,410 (4'7.5")	1,410 (4'7.5")	1,410 (4'7.5")	1,410 (4'7.5")	1,410 (4'7.5")
1,950 (6'5")	1,950 (2,000 (6'5" (6'7"))	1,950 (2,000 (6'5" (6'7"))	1,950 (2,000 (6'5" (6'7"))	1,950 (2,000 (6'5" (6'7"))	1,950 (2,000 (6'5" (6'7"))
500/50-17 (500/55-20) (620/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5) (710/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5) (710/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5) (710/40 R22,5)	500/50-17 (500/55-20) (620/40 R22,5) (710/40 R22,5)
1,500/3,306.9 (1,500/3,306.9)	1,500/3,306.9 (1,500/3,306.9)	1,500/3,306.9 (1,500/3,306.9)	2,000/4,409.2 (3,000/6,613.8)	1,500/3,306.9 (1,500/3,306.9)	2,000/4,409.2 (3,000/6,613.8)
10,000/22,046 (14,000/30,864.4) (16,000/35,273.6)	14,000/30,864.4 (16,000/35,273.6)	14,000/30,864.4 (16,000/35,273.6)	14,000/30,864.4 (16,000/35,273.6)	14,000/30,864.4 (16,000/35,273.6)	14,000/30,864.4 (16,000/35,273.6)
1,800 (5'11")	1,800 (5'11")	1,800 (5'11")	1,800 (5'11")	1,800 (5'11")	1,800 (5'11")
32	32	32	32	32	32
45 (1.8")	45 (1.8")	45 (1.8")	45 (1.8")	45 (1.8")	45 (1.8")
2 (3)	–	–	–	2 (3)	2 (3)
59/80	66/90	66/90	66/90	66/90	66/90
540	540	540	1.000	540	1.000
Yes	Yes	Yes	Yes	Yes	Yes

All information, illustrations, dimensions and weights are not binding.



**Original parts are more cost-effective, because they are approved quality that really pays.** Haven't you been through the experience that your local dealer claimed a part was high-quality and then it turned out that it did not work? Tests conducted

by agricultural magazines have shown that manufacturer-tested quality parts last longer and operate more reliably. Do not compromise on quality and trust in Original KRONE parts.

# KRONE Internet



Discover the world at KRONE and browse through our website pages to find facts and figures and also new developments plus a wide range of services. Explore our website and find out how versatile the KRONE world is.



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## Products

Find extensive information on our full product range. This section holds everything you need – from video clips to manuals.



## Sales organisation

Here you find a distributor in Japan as well as your local KRONE dealer who will be pleased to support you. This is where you find your KRONE partner who will be pleased to assist you.



## Jobs

Would you like to join our company? KRONE is often looking for diligent and motivated staff to work at our farm machinery factory as well as at our commercial trailer production plant. So, this section is always worth a visit.



## Media center

The KRONE 'database' holds thousands of documents, pictures, test reports and much more. Here you find very detailed information on KRONE products that are of special interest to you.



## Events

Are you in for a KRONE live experience? Check out for KRONE events and look at a machine on show or watch it during a demonstration. After all, there is little that is more effective than a hands-on experience.



## Service

Here you find all the service information you require – from a point of contact at the factory to finance schemes for your KRONE machine as well as training schemes for staff and users.



## Download Center

Are you looking for a KRONE calendar for your desktop or a smart picture for your presentation? Here, at the KRONE download center, you will find plenty of useful material for a wide range of projects.



## Used Machinery

KRONE often has a wide range of demonstration or exhibit machinery on offer. This is a good site to find your KRONE machine. Then contact your local KRONE dealer to arrange the details of a potential purchase.



## Parts

24/7... This service gives you the opportunity to find your KRONE part at any time and without waiting. The KRONE Agroparts Portal has an article number and exact description for every part. You can order the part instantly at your local KRONE dealer by sending an e-mail to Agroparts.



## KRONE shop

Are you looking for a gift or are you a collector of farm models? Then you should definitely shop around at our KRONE shop. We take your orders at any time of the day.

Your KRONE dealer

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