



THE POWER OF GREEN

TX

Forager-filled forage wagons





TX

KRONE
forager-filled
forage wagons

- Up to 56 m³ (DIN 11741) capacity
- Single-frame concept for a lower dead weight and higher payload
- Sloping steel floor for added capacity and smoother ride
- Hydraulic articulated drawbar: Front end lowered toward the tractor to open fields



- Extremely powerful roller chain drive for the chain-and-slat floor
- D-models with two discharge rollers for uniform forage discharge
- Hydraulic pressure compensation on the axles for maximum ride stability
- Hydraulic or electronic forced steering as an option for more agility



TX: More capacity – faster unloading

This silage trailer boosts your productivity

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The structure

The load area

- Huge 46 and 56 m³ volume (DIN 11741)
- Reduced dead weight and higher payload thanks to a single-piece frame design and a floor that is lowered at the front end
- Rugged and heavy-duty steel structure
- Conical structure for smooth unloading

A KRONE TX is the perfect silage trailer to serve the forage harvester, offering huge capacities, safe and swift travel as well as fast unloading. A TX boosts your productivity, reduces costs and sets new standards.



The innovative silage trailer

With a 34 t gross weight the TX is the heavy-duty model in the KRONE forage wagon programme. Featuring innovative details such as the sloping floor and flared head- and tailboards, these models offer extra load capacities and an expanded throat volume that helps filling the machine without losses. The flared tailboard allows the machine to complete turns without fowling with fences and hedges, for example.



Perfect visibility

The see-through headboard offers an excellent view of the load area so tractor operators can watch the crop stream into the machine and manoeuvre the combination for optimum filling.



A KRONE exclusive!

The single-frame is a special KRONE development for our forager-filled wagons and refers to the unitized design of the base which leads to a reduced dead weight and brings down the floor achieving extra volume and higher payloads. Bringing the centre of gravity closer to the ground, TX offers exceptional stability in sloping fields and headland turns at speed.

Strong

A 450 mm underbeam clearance, numerous stanchions and strong sides made from trapezoidal sheet that withstands high pressures turn these forage wagons into rugged and heavy-duty machines.

Smooth emptying

The forage wagon scores on its conical structure. The tapered body front to rear and the steel floor makes for smooth and swift unloading and with all obstacles eliminated in the material flow nothing is left behind.





The structure

The chain-and-slat floor

- Sloping floor for increased capacity and ride stability on the slope, in the field and on the road
- Enhanced traction as more weight is shifted to the tractor's rear wheels during the initial filling stage
- Two rugged and flexible chain-and-slat floors
- Direct and mechanical drive of the chains:
 - extremely powerful
 - extremely fast
 - independent of the tractor hydraulics

The KRONE TX forager-filled forage wagon is tailored to the needs of contractors who seek higher capacities and speedy unloading. These requirements are met by the sloping steel floor and floor chains that are not powered by the tractor hydraulics.



Added capacity

The KRONE TX is the first silage trailer that features a sloping chain-and-slat floor. The extra volume is provided by the 'pocket' at the front end. This design shifts more weight to tractor's rear axle thereby improving traction in the field. Also, the low centre of gravity leads to better rides in sloping fields and improves road stability in swift transport work.



Perfectly tensioned chains

Chains that are tensioned perfectly last longer and perform better. The spring-loaded tensioners at the front offer easy use and servicing.



Four chains

The use of four chains doubles the unloading efficiency. The four high-tensile round steel chains have short links and offer a break load of 23 tonnes and highest advance speeds of up to 34 m/min. The box section chain slats are grippy and offer ideal crop feed properties.



Unloading takes less than a minute

The mechanical chain drives offer very speedy unloading. The sprocket of the heavy-duty 1 ¼ inch drive chain is integrated in the frame. The low-maintenance and long-lasting chain runs in plastic rails.



Convenient door

The TX models with discharge rollers have a wide door on one side that is accessed via a foldable ladder, offering convenient access to the load area and easy cleaning.





Hydraulic articulated drawbar

- Lowers the front end for opening fields without losses
- Varies the ground clearance for ideal stability on the clamp and in rutted land
- Gives tightest turns and eliminates the need to remove tractor link arms
- Provides quiet running thanks to hydraulic suspension

The articulated drawbar offers two benefits: the hydraulic cylinders lowers the front end of the machine when opening a field. Vice versa it raises the front end to increase the ground clearance on rutted land. The slim drawbar with ball hitch is suspended to offer superior ride stability.



Hydraulic articulated drawbar

The articulated drawbar is particularly useful when opening a field. It inclines toward the tractor increasing the throat volume and ensuring loss-free filling from front to rear.



Agile

A forager-filled TX makes a nimble combination with your tractor. The slim drawbar allows you to turn and shunt even in very confined areas. It is also ideal when travelling behind the forage harvester and for agile manoeuvring in small fields. No need to remove the tractor link arms.



Suspended drawbar

The drawbar has a nitrogen tank that is integrated in its oil circuitry. The accumulated drawbar absorbs shockloads and offers maximum operator comfort.



An ideal system

The TX features a foldable stand. The articulated drawbar adjusts hydraulically to individual tractor ends. It's easy.



Ball hitch

This hitch offers maximum operator comfort at minimum wear and ensures the machine runs smoothly without jolting. The 80 ball hitch offers a tongue load of up to 4 tonnes.



Convenient for operators

The steering rod of the hydraulic force-steer system couples easily to the 50 hitch ball. It is adapted to the tractor end by altering the position of the pictured swing after releasing a pin.



TX 460 • TX 560

The models without discharge rollers

- Rugged steel structure, few components
- Unloading takes less than a minute
- Extra powerful chain-and-slat floor with four chains

The TX 460 and TX 560 are the specialist machines that really boost the productivity of your harvest chain – courtesy of the extra volume that is gained from the sloping floor, the high-speed chains and the single-piece frame design that increases the payload.



Convenient

The flared tailboard makes for easier filling and the shorter base is an advantage when entering narrow gates.



Speedy unloading

The chain-and-slat floor was designed for high performance. Advancing at 34 m/min, the floor clears the wagon in less than one minute. A TX boosts your productivity.



Controlled from the cab

The steel tailgate is opened and closed by two rams. The automatic locking and unlocking system is operated from the cab.



Pump it out

As the tailgate opens wide and clear, the four chains move the material at a rate of 34 m/min to the rear, allowing TX 460 and TX 560 to unload gigantic masses of crop in no time and at no trouble.



TX 460 D • TX 560 D

The models with discharge rollers

- Two discharge rollers unload the material in a uniform mat
- Overload protected by the tractor pto shaft
- Both rollers are fitted and removed in no time
- High unloading rates as the floor chains advance at 17 m/min

The two discharge rollers on the KRONE TX 460 D und TX 560 D models unload the material in a uniform mat for perfect rolling. Powerful and effective, the rollers are made to match the high unloading rate of the chain-and-slat floor.



Discharge rollers

The entry-level TX 460 D and 560 D have two tube-steel rollers that unload the material. These large 450 mm diameter rollers with grippy tines in helical arrangement discharge the material across the full width and in a uniform mat.



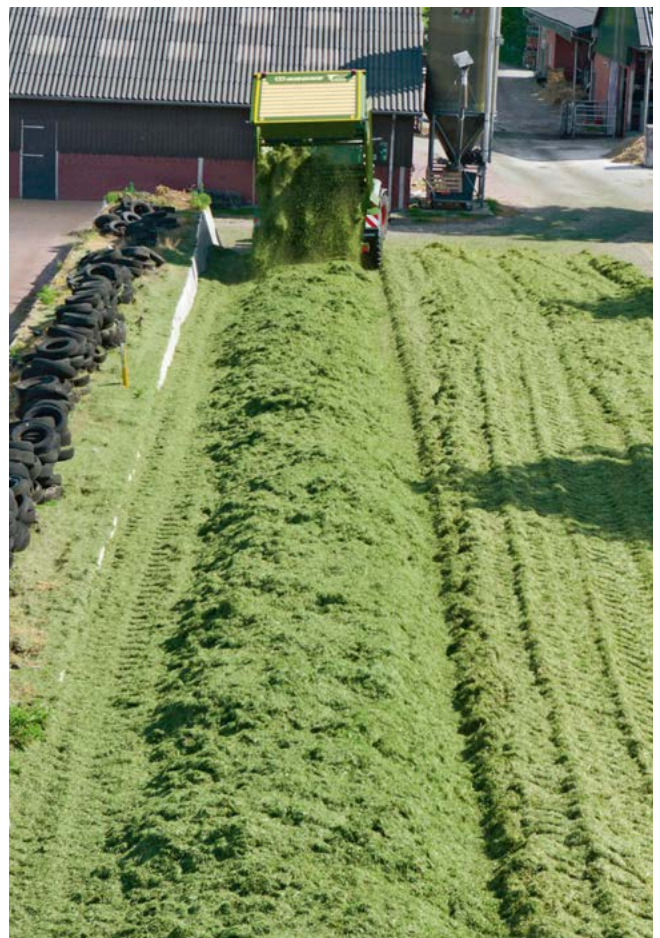
The efficient driveline

The rollers are driven by the same sprocket that drives the floor chains. Robust chains with 1inch links transmit the drive power without loss. Spring-loaded chain tensioners are in place to ensure a smooth performance of the chain-and-slat floor.



Fast changeovers

Forming one integral assembly, the discharge rollers on the KRONE TX 460 D and 560 D models are fitted and removed easily and in no time.



A perfect crop mat

Two discharge rollers unload and distribute huge masses in a uniform mat along the full length of the clamp.



Full overload protection

Powered directly by the tractor driveshaft, the discharge rollers perform absolutely dependably. The overload protection from the clutch inside the driveshaft makes for boosted unloading rates.



Options

- Pushing head plate for optimum unloading
- Filling level is indicated by a pressure gauge
- Weighing pin on the drawbar
- Crop covers ensure no material is lost in transport

A reasonably specified machine gives efficient operation, is safe and increases productivity. A special feature for our forager-filled wagons, the pushing plate at the front end supports the unloading process to vacate the machine faster and more efficiently. Further options include crop covers, weighing systems, extra lights and reflective contour markings for added safety and maximum operator comfort.



Boosting unloading rates

An extra plate at the front end pivots to the rear, pushing the crop wall so this topples over for faster and exhaustive unloading. The plate also eliminates the risk of the crop wall toppling over to the front end. No need to sweep the forage wagon.



Easy operation

When the tailgate opens the pushing plate pivots to the rear, pushing against the crop wall and supporting the work of the chain-and-slat floor. When the tailgate closes, the spring-loaded plate moves back into rest position.



Filling level indicators

These pressure gauges indicate the current filling level inside the load area. The pressures are detected on the cylinder on the articulated drawbar and the cylinders in the hydraulic pressure compensation system on the axles. The filling level helps operators estimate the weight of the load.



Nothing is lost

Crop covers are useful options on KRONE silage trailers that ensure nothing of the valuable load is lost in road transport at speed. The covers open and close hydraulically.



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.



Weight readings

The exact weight of the load is read out on the display screen that forms part of the optional weighing system. The system determines the weight of the load by computing the difference between the gross weight and the weight of the material that is left inside the machine after unloading is completed.



Lights

- LED work lights for safe operation in the field and safe road travel
- Excellent visibility at night
- Optional internal and rear-view cameras provide great visibility.
- Optional light strips

Powerful internal LED lights, up to four external LED work lights, highly visible sidelights and reflective strips as well as the camera with display screen combine to offer superior operator comfort at night and maximum safety.



External lights

Up to four additional LED side-mounted lights are available for the KRONE TX forage wagons, 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.



Road safety

The TX models have standard rear lights both at the top and bottom plus an adjustable underride guard. These features are an industry standard on commercial trailers.



Internal lights

The powerful LED light bars are an option inside the load area. They are operated together with the tractor lights.



Cameras are an option

The TX 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.



High visibility

LED sidelights and optional reflective strips mark the contours of the machine so other operators recognize the full size of the machine from far away. Offering increased safety on field roads and public roads, the reflective strips help motorists to recognize the dimensions of the trailer at night and respond to awkward situations.



Visible from afar

Extra LED rear lights with integral turn indicator lights, rear lights and brake lights at the top of the tailboard make the machine visible from far away and clearly indicate a turn.



The running gear

Tandem axle

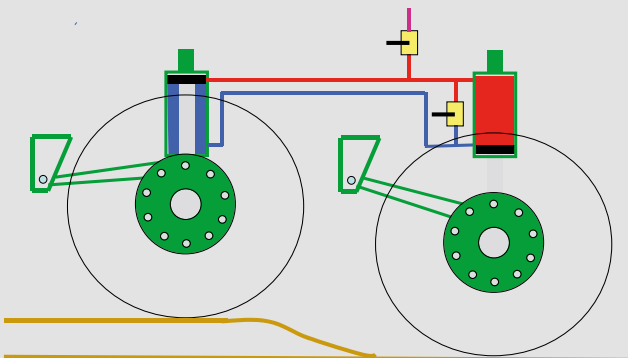
- No rolling, safe roading
- Maximum stability on slopes, reduced risk of rollover
- Steered axles protect the sward and reduce tyre wear

The caster- and force-steered tandem axles have hydraulic pressure compensation for all requirements and needs. Each assembly offers stability on the slope and roll stability when travelling at speed and around bends. These axles offer maximum safety and operator comfort.



Very adaptable

The axles provide for generous vertical travel. The load is distributed uniformly to the rear and front wheels at all times. The design provides for excellent climbing and unloading on high and steep clamps.



Maximum stability

To compensate for undulating ground, the oil flows from the cylinder on the front wheel to the cylinder on the rear wheel on the same side of the machine and vice versa. Using a separate oil circuit on each side of the machine but within the same axle assembly cuts out any risk of rolling and maintains the body level at all times.



Best straight travel

The cam discs on the stub axles are locked relative to the load that is currently placed on the axle. This results in maximum road stability and safe turning. The deflection forces are lowest when the machine is empty.



Gentle on the tyres

The steered axles are standard specification. Tracking excellently in headland turns and curved lines, these wheels eliminate the risk of scuffing, protect the sward and take off stress from the running gear.



710/45 - 22.5 162 A8
Width: 720 mm
Diameter: 1235 mm



800/45 R 30.5 TL 176 D (Trac)
Width: 810 mm
Diameter: 1510 mm



800/45 R 26.5 TL 174 D
Width: 800 mm
Diameter: 1350 mm



800/45 R 26.5 TL 174 D (Trac)
Width: 800 mm
Diameter: 1380 mm



710/50 R 30.5 TL 173 D (Trac)
Width: 730 mm
Diameter: 1485 mm

The tread profile supplied may differ from the tread profile shown.

Tyre options

There is a choice of tyre options with various treads and carcasses, offering you the perfect outfit for your specific needs.



The **running gear**

Tridem axles

- Tridem assembly distributes the load across three axles
- Gross axle weights: 27 t (TX 460) and 30 t (TX 560)
- Superior ride comfort, great stationary and ride stability
- Steered front and rear axle, leading lift axle
- Option on TX 460, standard feature on TX 560

Tridem axles and the bottom-mount 80 ball hitch rate the TX models to a gross axle load of 27 t (TX 460) and 30 t (TX 560) and to a maximum speed of 40 km/h and 60 km/h. The heavy-duty running gear features hydro-pneumatic suspension and hydraulic pressure compensation for superior stability and safety.



Built-in road stability

The six wheels on the tridem assembly ensure soft treading and full ground contour following. Hydraulic pressure compensation ensures the pressure inside all cylinders and on all wheels is the same. Using a separate circuit on each side of the machine eliminates the risk of rolling, maintains the body level at all times and ensures maximum stability. The machine is homologated for 60 km/h.



Lifting axle

The front axle is designed as a lifting axle that can be raised during empty hauls to save tyre wear and cost.



Steered wheels

A steered front or rear axle ensures excellent tracking in every curve for effective sward protection, reduced draft requirement and reduced load on the wheel bearings.

	<p>800/45 R 30.5 TL 176 D (Trac) Width: 810 mm Diameter: 1510 mm</p>		<p>800/45 R 26.5 TL 174 D Width: 800 mm Diameter: 1350 mm</p>
	<p>800/45 R 26.5 TL 174 D (Trac) Width: 800 mm Diameter: 1380 mm</p>		<p>710/50 R 30.5 TL 173 D (Trac) Width: 730 mm Diameter: 1485 mm</p>

Tyre options

We offer a large choice of tyres – also for our tridem axles. Choose the outfit that best suits your requirements. The light-pulling flotation tyres are gentle on the sward and minimize wheelmarks.



Brakes and steering

- The optional electronic EBS brake system features
 - ALB auto load sensitive brake power control
 - ABS anti-lock brake system
 - RSS roll stability support
- Hydraulic or electronic forced steering as an option

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 swath and provide added safety.



The brake

The TX 460 and TX 560 have a dual line air brake as a standard feature. The hydraulic ALB valve controls the braking power relative to the current load. This brake is an option in specific countries.



Enhanced reliability

EBS is the optional electronic brake system, which comprises ALB, ABS and RSS functions. The roll stability system intervenes by braking whenever there is a risk of rollover. TX will definitely not roll when managing narrow bends at speed. Combined, all these functions lead to an enhanced reliability.



Caster-steer axle

Caster steering is standard specification on the TX 460 models with tandem axles. The steering system can be locked hydraulically during shunting, clamping and in road work.



Hydraulic forced steering

A hydraulic system is available as an option for the TX 460 with tandem axle where it steers the rear axle. The system is a standard feature on the TX 560 with tridem axles where it steers the front and rear axles. The system is also actively involved in reversing so less pushing power is required when managing curves, which in turn reduces the strain and stress on the running gear and optimizes ride stability at speed. The steering rod connects the hitch ball on the tractor linkage with the master cylinder on the drawbar or two master cylinders on tridem axles.



Electronic forced steering

This system controls the axle using the tractor's standard hitch ball, a steering rod and a sensor that senses the wagon's current angle relative to the tractor and sends the information to the system via the steering computer. This system offers better manoeuvrability than the hydraulic system and is also more compact. It allows operators to interfere and change the position of the wheels during shunting, on the slope and unloading along the edge of the clamp. For added safety, the steering intensity is progressively reduced from 35 km/h onwards until it ceases altogether at 50 km/h.



Control options

- Clear concept
- Easy use
- CCI-ISOBUS – one control unit for all

You don't have to invest in an operator terminal to operate a TX. You simply operate the machine from the tractor spools.

Optional features such as the electronic weighing and steering can easily be implemented with a Delta terminal, a CCI 1200 ISOBUS terminal or any ISOBUS tractor terminal.



Operating a base specification machine

A base specification TX is solely operated via the tractor spools. The tailgate, the hydraulic articulated drawbar, the locking system of the caster-steer tandem axle and the tridem lift axle are easily operated from the controls next to the operator seat. The pivoting board that supports the unloading process is an option and is operated from the same spools that operate the tailgate. The optional crop covers require an extra double-acting spool.



Spot on

Up to four optional LED work lights on the side are easily operated from a flick-switch.



The Delta terminal

The Delta terminal operates the electronic weighing system and the electronic forced steering system. The backlit digital display screen provides an excellent overview of all machine functions. It also switches the optional work lights on the outside of the machine.



CCI 1200 terminal

CCI 1200 is the universal terminal for ISOBUS-compatible machines. Offering a large 12inch colour touch screen and all Delta functions, CCI 1200 allows users to split the screen and view all machine control elements on one screen and the camera feeds on the other.



ISOBUS tractor terminal

The ISOBUS terminal on the tractor is suitable for carrying out all functions that would be controlled by the ISOBUS CCI 1200 terminal.



Technical data

		TX 460	TX 460 D	TX 560	TX 560 D
Capacity	approx. m ³	46	46	56	56
GVWR					
Tandem axle	t	24	24	–	–
Tridem axle	t	31	31	34	34
Drawbar tongue load	t	4	4	4	4
Gross axle weight					
Tandem axle model	t	20	20	–	–
Tridem axle model	t	27	27	30	30
Overall length	Approx. m	10.03	10.03	11.84	11.84
Total width*	Approx. m	2.90 - 2.96	2.90 - 2.96	2.90 - 2.96	2.90 - 2.96
Total height	Approx. m	4	4	4	4
No. of discharge rollers		–	2	–	2
Tandem axle		Standard	Standard	–	–
Caster-steer tandem axle		Standard	Standard	–	–
Force-steer tandem axle		Optional	Optional	–	–
Tyres					
710/45-22.5 TL 162 A8		Standard	Standard	–	–
800/45 R 26.5 TL 174 D		Optional	Optional	Standard	Standard
800/45 R 26.5 TL 174 D Trac		Optional	Optional	Optional	Optional
710/50 R 30.5 TL 173 D Trac		Optional	Optional	Optional	Optional
800/45 R 30.5 TL 176 D Trac		Optional	Optional	Optional	Optional
Force-steer tridem axle		–	–	Standard	Standard
Bottom-mount hitch		Standard	Standard	Standard	Standard
Ball hitch		Standard	Standard	Standard	Standard
PTO speed	rpm	1,000	1,000	1,000	1,000
Chain-and-slat floor speed	approx. m/min	34	17	34	17
Hydraulic couplers					
Drawbar		1 x da	1 x da	1 x da	1 x da
Tailgate		1 x sa	1 x sa	1 x sa	1 x sa
Hydraulic couplers Caster-steer axle lock		1 x sa	1 x sa	–	–
Hydraulic couplers					
Lifting axle		1 x sa	1 x sa	1 x sa	1 x sa
Pushing head plate		Optional	Optional	Optional	Optional
Weighing system		Optional	Optional	Optional	Optional
Crop covers		Option **	Option **	Option **	Option **
Min. tractor power	Approx. kW/hp	89/120	89/120	111/150	111/150

* depending on tyre specification

**requires an extra da coupler

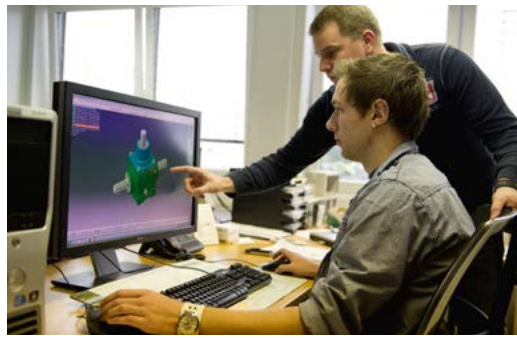
All specifications, weights and dimensions do not necessarily comply with standard specifications and are therefore not binding.

All product specifications are subject to change.



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 and silage trailers, 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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