Bellima

EN

ROUND BALERS

Bellima

KRONE round balers

KRONE pick-up

for a perfect forage flow and smooth running

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KRONE pick-up with packer

for ideal filling of the bale chamber

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KRONE slat and chain conveyor

for every application

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KRONE twine tying or net wrapping

the correct wrapping material for every customer

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KRONE Bellima – Equipped for every challenge

Buying a Bellima means tapping into KRONE's vast experience and expertise gained in decades of baler manufacturing. Our round balers operate around the world and have proven excellently in a wide variety of conditions. In addition to producing high-density bales, Bellima is extremely robust, simple by design and perfectly specified for great reliability.

The KRONE pick-up

The Bellima F 125

The pick-up on Bellima F 125
The pick-up has a working width of 1.40 m (4'7") according to DIN 11220, can be operated hydraulically and locked at the desired height. The small space between the pick-up and the bale chamber ensures an optimum crop gathering and a consistent flow of the material into the machine.

Optimum ground adjustment

- **Clean gathering of the material**
- **Precise working height adjustment**
- **Continuous crop flow**
- **Quieter running**
- **Heavy-duty design**

The KRONE round baler Bellima has a compact pick-up. Small in diameter and operating near the bale chamber, the pick-up has four rows of tines and an adjustable press roller for high-efficiency operation, feeding even short and wet crops in a consistent flow into the bale chamber, which is the first step in the production of uniform bales. The working height is set by refitting a bolt. Contouring is provided by height-adjustable guide wheels.


1

1. The crop press roller
Bellima F 125 features an adjustable press roller, which ensures a continuous flow of crop into the bale chamber, which is important when picking up large and uneven swaths.


2

2. Work depth control
The minimum pick-up height on machines without guide wheels is set simply by refitting a bolt at the front.


3

3. Four rows of tines
With four rows of tines and a tine spacing of 68 mm, the pick-up picks up even short crops cleanly.

The KRONE pick-up with packer

Bellima F 130

The packer
The packer supports the pick-up and improves the crop flow from the pick-up to the starter roller plus ensures the bale chamber is filled uniformly.

Work height adjustment
The working height is continuously adjustable via the guide wheels. On uneven and rutted terrain, the working height can be limited via the lateral perforated bars.

The baffle sheet
The standard baffle sheet is adjusted to height by adjusting the chain length. An accurate adjustment is important for loss-free pick-up of short stems.

The feed augers
Massive augers feed the crops from the sides to the middle of the machine, ensuring a smooth flow from the wide pick-up into the narrow bale chamber.

The pick-up with packers
Collecting material in awkward fields, curved lines, on slopes and from wide swaths often asks for a wider pick-up with a special crop feeding feature. Offering a working width of as much as 1.80 m (5'11") to DIN 11220, the pick-up of the KRONE Bellima F 130 round baler is the machine to suit.

Leaves nothing behind

- **1.80 m working width:**
  Ideal for larger swaths
- **WIth packer**
  for continuous crop flow
- **Lateral feed augers**
  for optimum material feed
- **Pneumatic guide wheels**
  for particularly quiet running

The extra wide pick-up with packer is standard specification on Bellima F 130.
Arranged close to the tines and to the starter roller inside the bale chamber, the packer ensure a consistent flow of the crop even in short chops, boosting intake capacity and productivity.

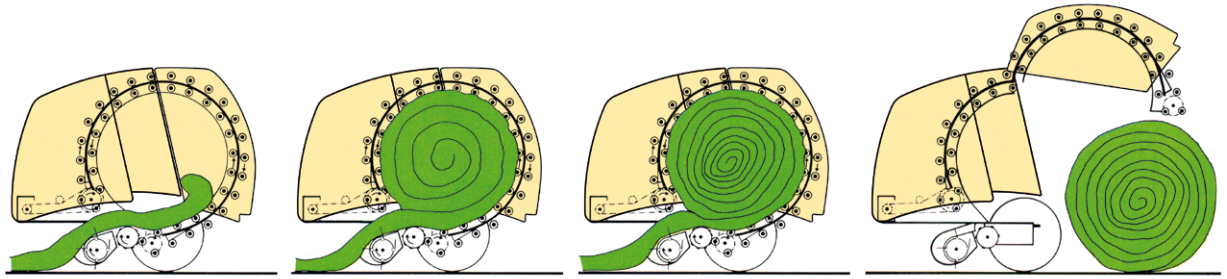
The KRONE slat and chain conveyor

One solution for all *application conditions*

Firm bales

- **Constant bale diameter of** of 1.20 m
- **Safe bale drive,** no bale stood still, fewer rolling losses
- **Low power requirement**
- **Simple design**, only one drive chain

The concept of the slat and chain conveyor has proven extremely well in silage, hay and straw harvesting around the world. The endless slat and chain conveyor forms bales of extremely high densities, exerting a firm grip on the bale and ensuring a constant roll – even in short and dry material In addition, there are fewer rolling losses and last but not least the low power requirement.



The bale chamber
The enclosed bale chamber with the endless slat and chain conveyor on Bellima rolls the bale by adding layer after layer, forming densely packed and well-shaped bales. The machine's great feeding properties allow the conveyor to start bale rolls earlier and so the baling cycle finishes earlier as well. Another boon is the denser bale core. Packing more material and density into each bale translates into higher-quality silage and better exploitation of truck capacities.

The slat and chain conveyor
The slat and chain conveyor has proven extremely well in the most versatile conditions around the world. The solid round steel rods and the chains are designed to cope with the highest loads and strains.

The drive

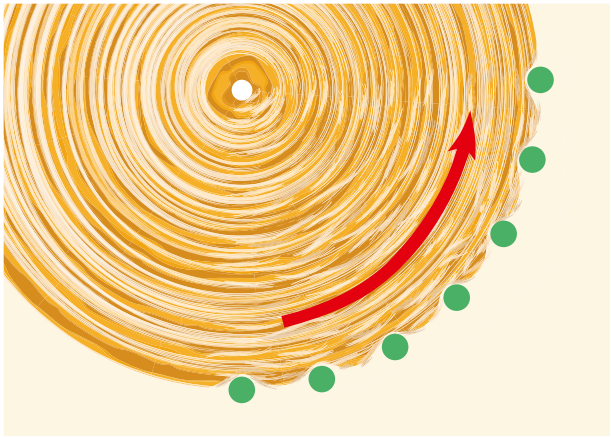
We have nothing to hide. Our Bellima does with a minimum of drive chains and sprocket wheels! The simple and uncluttered design makes for minimum service and maintenance and results in maximum longevity.

The drive chains

The slat and chain conveyor is driven by only one chain, a design that reduces tractor power requirement and makes Bellima even more reliable.

The KRONE slat and chain conveyor

One solution for all *application conditions*



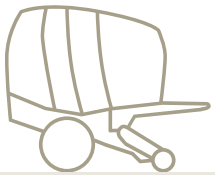
The grip effect
With its grip effect, the slat and chain conveyor ensures effective bale roll and highest baling density.

The tensioning device
The device tensions the slat and chain conveyor automatically with springs ensuring proper chain tension, a longer service life and better safety.

Always reliable

- **Best baling results**
  in hay, straw and haylage
- **Reliable bale drive**
  thanks to grip effect

Round balers harvest straw, hay and wilted silage around the world in a wide variety of conditions that require full operational reliability in brittle straw and hay after long periods of drought or varying moisture levels in wilted forage or wet silage altogether, all of which can be aggravated by stickiness in sugary crops.



For all types of crop
The slat and chain conveyor performs most reliably in haylage, straw and hay, meeting all demands our customers make on the machine. It handles the crop gently and, with its grip effect, ensures that the bale is driven securely at maximum baling density.

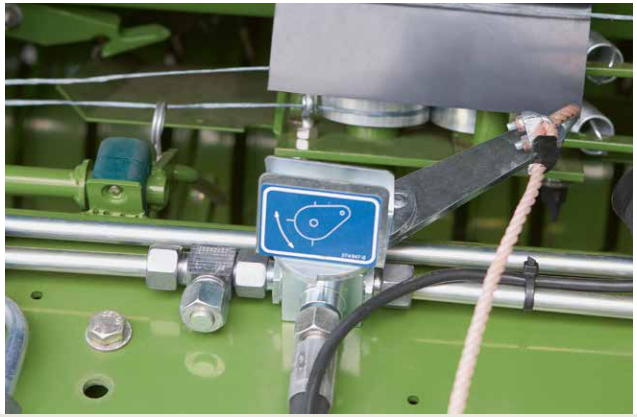
Bellima

Further technical details

The drawbar with height adjustment
The drawbar height is set on a pin and hole system – straightforward and fast. You can turn the drawbar for either top or bottom hitching.

The drive
The main gearbox (540 rpm) is arranged centrally. Here, the incoming power is split and sent on to either side, a design that cuts down on driveline lengths and optimises the power flow to the pick-up and the slat and chain conveyor.

The hydraulic system
A single-acting hydraulic connection is standard specification on the Bellima. The switching valve operates the pick-up or the tailgate.



The electric target baling pressure display
An audible / LED alarm is available as an option to indicate acoustically and visually when the baling pressure is right. Twine wrapping can be started immediately

The baling pressure indicator
Baling pressure indicators on either side of the machine show the current loading inside the chamber so the operator can correct his steering and ensure the chamber is filled uniformly – for uniform bale densities and shapes.

The tailgate
The tailgate is opened and closed by single-acting hydraulic cylinders. It is locked mechanically, reducing strain on the hydraulics and increasing safety.

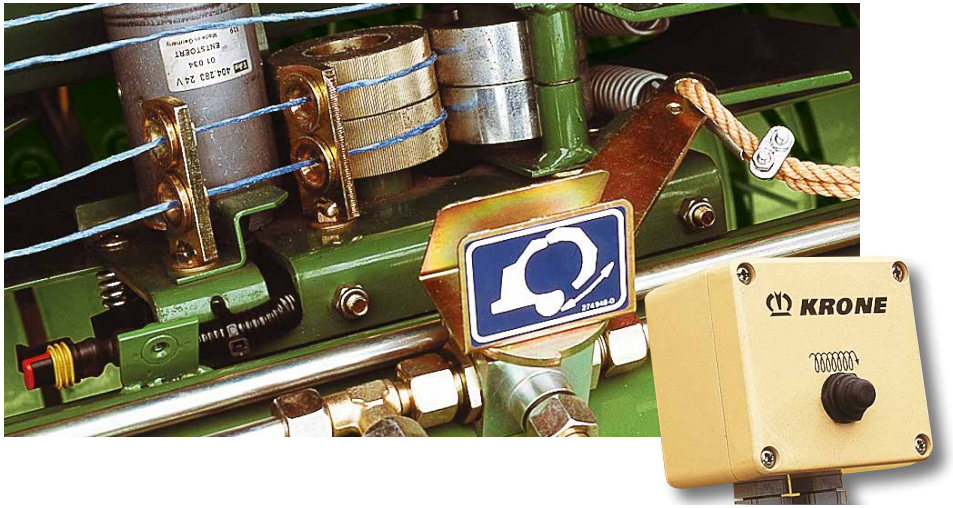
The starter roller
The profiled starter roller takes care of an instant bale start, optimises the entire baling process and takes load off the tailgate, which is ideal when baling heavy silage bales.

The bale ejector
The bale ejector with integral collection plate ejects the bale fast and effectively. It allows the baler to start the next baling cycle while the tailgate is still closing. This small detail allows you to bale up to six extra bales per hour!

The KRONE double twine tying system

Fast wrapping process *simple in design*

The Bellima F 125 is equipped as standard with a double twine tying system. With the Bellima F 130, the customer can decide between net wrapping or a combination of net wrapping and twine tying.



The electric twine starter
The electric twine starter triggers the double twine tying system on a touch of button. The rolls driven by the electric starter reliably guide the twine to the bale chamber.

The double wrapping unit
The stepped pulley controls the number of twine wrappings. Two threads run through drivers from the centre to either side and back to the centre of the chamber where they are cut at the end of the tying cycle. In the simplest version, the tying start is triggered by a cable pull, otherwise electrically or hydraulically.

The twine box
The twine box stores up to six spools of twine. Refills are quick and easy. The twine spools are secured by a support.

The hydraulic twine starter
The hydraulic twine starter is a convenient option to the electric starter and allows operators to trigger both twine wrapping device and twine/net wrapping device from the tractor cab.

Convenient tying

- **Quick tying**
  with two twines at the same time
- **Stable bales** thanks to twine start and end in the centre of the bale
- **Selectable thread spacing**
- **Very easy-to-use system**

Compared to a single twine tying system a double twine tying system cuts down on machine downtime, increases output per hour, saves on fuel and labour cost and increases your output and productivity. The KRONE double twine tying system places the twine ends in the middle of the bale and not on the edges. So the bales will not lose shape as they are handled several times over.

The KRONE net wrapping

Visible from the cabin, *reliable functionality*

Starting the wrapping cycle
Both the net and twine wrapping devices are started with the regulating valve on the tractor.

The wrapping material brake
The adjustable wrapping material brake ensures the bale is wrapped edge to edge so it does not lose its shape as it is handled several times over.

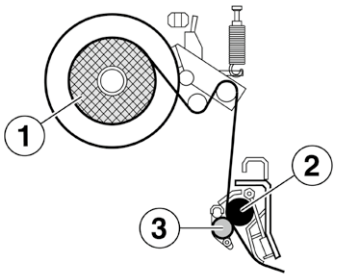
The net layers
The number of net layers per bale is set via the thread on the shaft of the friction wheel. The further the thread is turned out, the longer the spring rail remains on the thread. And only when the spring rail swings down, it will trigger the net cutting system.

The net wrapping device
The net wrapping device is located at the front in the driver's field of vision and is designed for 2600 and 3000 net rolls. There is room for one spare roll in the twine box.

Short tying time

- **Short baling cycles** for more bales per hour
- Bales **break up quickly and easily** in animal buildings
- **Effective start of the wrapping cycle**, short feed distances

The net wrapping device is straightforward by design and offers superior functionality. Net wrapping is faster than twine tying so boosting your hourly throughputs.
Higher throughputs free up time for other jobs and cut diesel fuel consumption per bale.
The net wrapping accepts KRONE excellent net rolls with a total net length of up to 3,000 m (11,811').



The full net width
The net (1) is fed across the full width of the chamber to the rubber drive roll (2) and its pressure roll (3). As the wrapping process is triggered, the rubber roll feeds the net to the rotating bale.

Replacing a roll
Replacing the wrapping material is convenient and safe, because the operator can stand upright in front of the machine when reloading. To replace an empty net roll, simply swing out the locating shaft and slide the fresh roll onto it. Then the net is fed into the net wrapping device.

Technical data

Bellima round baler

		Bellima F 125	Bellima F 130
Bale diameter	approx. m	1.20 (3'11")	1.20 (3'11")
Bale width	approx. m	1.20 (3'11")	1.20 (3'11")
Length	approx. m	3.70 (12'2")	3.70 (12'2")
Width	approx. m	2.25 (7'5")	2.25 (7'5")
Height	approx. m	1.97 (6'5.6")	1.98 (6'6.6")
Pick-up working width according to DIN 11220	approx. m	1.40 (4'7")	1.80 (5'11")
Track width	approx. m	1.90 (6'3")	1.95 (6'5")
Tyres		11.5/80-15.3 10 PR	11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR
Power requirement	approx. kW / hp	25 / 34	25 / 34
Required hydraulic connections		1 – 2 single-acting (depending on equipment)	2 – 3 x single-acting (depending on equipment)

Wrapping and tying

Genuine KRONE wrapping

The KRONE excellent net wraps

KRONE excellent net wrap live up to their promise. Offering an enormous tear resistance and unique spreading technology, the KRONE net wraps provide the best possible protection to your valuable crop.

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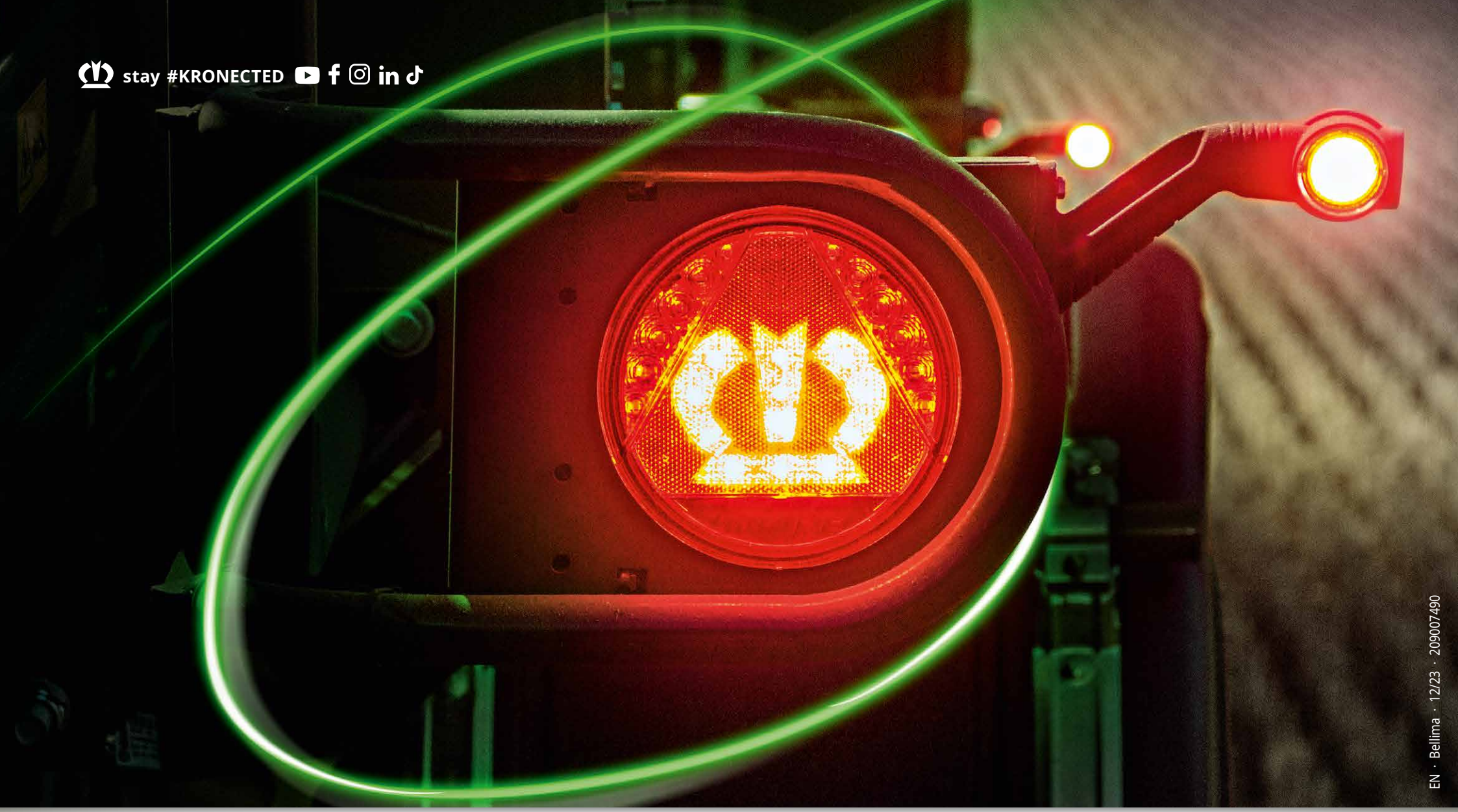

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