

Fortin 1988

Fortima Round balers



### Fortima

Variable-chamber round balers



#### The fixed bale chamber produces 1.25 m (4'1") diameter bales

The variable bale chamber produces 1.00-1.50 m (3'3"-4'11") or 1.00-1.80 m (3'3"-5'11") diameter bales

**Fortima** 

V 1500 MC

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- The chain-and-slat elevator handles the most difficult conditions
- The camless EasyFlow pick-up boosts throughput and reduces wear and tear
- The selectable MultiCut cutting system features 17 knives
- QuattroSpeed the new twine tying system for four threads
- The well-proven net wrapping system for even higher throughputs





Fortima – the powerful combination of proven engineering and innovative technology.

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**The ideal pick-up for harvesting wide windrows:** The KRONE EasyFlow pick-up system has feed augers on either side and works at a width as wide as 2.05 m (6'9") (DIN 11220), picking up every stem, also in corners and bends.



### Reduced wear costs yet optimized crop collection

EasyFlow is a camless pick-up that does without a cam track, offering obvious advantages over controlled system: A simple assembly uses fewer moving parts than controlled cam tracks and gives extremely quiet running, which in turn reduces wear and tear and ultimately service and maintenance and service costs. EasyFlow – a powerful system that leaves no stem behind.







#### 1. EasyFlow

This pick-up features galvanized scrapers and their special design lifts the crop from the tine for a smooth and and consistent flow of crop into the machine and eliminates the need for a cam track.

#### 2. Roller crop guard

The unit eliminates the risk of pushing up crop in uneven windrows. The machine operates at maximum pick-up and output levels while the crop is flowing smoothly and consistently through the machine.

#### 3. Massive augers

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

#### 4. Closely spaced tines

Boasting five rows of tines spaced 55 mm (2") apart, EasyFlow picks up even short stems. The deflector plates are galvanized for ultimate durability.



**No tools required – height control is quick and easy:** Just reset a pin on the guide wheels. The pick-up unit runs particularly smoothly on pneumatic tyres.



**For top-quality work without relying on guide wheels:** The pick-up is easily secured at the desired height. The pictured setting is typical for conditions involving deep ruts and extremely rough straw windrows.



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# Optimized design for an optimized crop flow

The EasyFlow pick-up forms a compact unit that comprises either a feed rotor or a cutting rotor. The clearance between rotor and baling chamber was increased and the rotor was arranged right behind the pick-up itself to increase the intake capacity and ensure a consistent flow even in short stems.



#### **Consistent crop feed:**

Fortima models that do not feature a cutting system have a standard feed rotor, which will boost their overall output.

#### Optimum protection from foreign objects:

Automatically tensioned pick-up chains, which is overload protected by a shear bolt clutch.





# MultiCut

### The cutting-edge concept

- Controlled cutting results in a superior quality
- 64 mm (2.5") chops by the full set of 17 knives
- Central knife selection system quickly changes cutting lengths

#### Perfect cuts:

A maximum of 17 knives are narrowly spaced at 64 mm (2.5") to produce bales that are easy to break up and spread. The knives are arranged in one row for an excellent quality of cut.



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# Finest quality of cut!

The KRONE MultiCut rotor cutter features 17 knives to produce short cuts that pay off quickly by higher bale densities, enhanced silage quality as well as easier and faster bale break-up on the feeding floor. It has been shown that short straw provides for easier spreading and better absorption of liquids while being easier to dispose of.



#### Massive rotor for excellent cuts:

Measuring 415 mm (1'4") in diameter, the cut-and-feed rotor is able to 'swallow' massive amounts of material. Its double tines in chevron formation pull the material consistently through the knives, thereby reducing the risk of peak loads as stems are cut 'one after the other'.



#### **Powerful driveline:**

All rotors are driven by massive spur gears, which absorb even the highest loads and which provide a positive and dependable drive – even in less than uniform windrows.



### Carefully designed down to the smallest detail:

The full pick-up assembly including rotor cutter and feed rotor with 17 knives, the shaft-operated central 17-15-7-0 knife selection system, the hydraulic 0-knife selection system for blockage removal and the massive spur gears.





#### 1. One operation:

The KRONE knife selection system selects the knives in sets of 17-15-7 or 0. The operator operates a selector shaft, which swings the desired number of knives into the feed channel. As he alters the spacing between the knives he varies the length of cut by up to 64 mm (2.5"). Position 0 means all knives are swung out for cutting. It couldn't be easier.





#### 2. The controlled cutting system by KRONE:

The double tines pull the crops consistently through the knives. The clearance between the knives and the double tines is very narrow so the crop cannot escape and the cuts are clean and precise.

#### 3. Fully protected:

The automatic 'Non-Stop' auto-reset system and the hydraulic 0-knife selection system are standard specification. The hydraulic 0-knife selection is used to remove potential blockages from the feed channel.

#### 4. Central knife locking system:

To remove the knives from the knife bank, release them by rotating the shaft, which rotates through 90°. Then remove them quickly and conveniently from above.

### 5. Rotor blocked up – no problem for the KRONE reverser:

The Fortima rotor cutter either reverses manually or hydraulically as an option.





#### **Convenient:**

Unlock the knives and remove them from above for grinding or replacement. No tools required.



#### Easy cutting:

The Fortima knife blades cut the crop down their full length. As the stems are pulled across the blades, the system requires less power. Their wavy edges retain their sharpness for a long period of time.



### The chain-and-slat elevator

### A gripping system

- High baling densities
- Powerful bale roll
- Less fragmentation
- Low power input



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#### One of the guide rollers and the chain-and-slat elevator (variable chamber model)

#### Longevity and high density

The heavy-duty chain-and-slat elevator runs on massive guide and drive rollers. The use of more chain links distributes the load more evenly and the use of massive rollers increases the angle at which the chains change direction, reducing the wear on the elevator, increasing its capacity and leading to smooth running. Individual chain links are easy to replace as required.

# The 'grippy' system for straw, hay and silage bales

Round balers harvest straw, hay and wilted silage around the world in a wide variety of conditions that require full operational reliability. The chainand-slat elevators respond to these requirements and operate dependably in all these conditions. These elevators will deliver – gentle but firm on the material, with slats 'meshing' with the bale to provide positive rotation and maximum baling pressure.







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#### The KRONE fixed chamber concept

The slat-and-chain elevator rolls the bale in the chamber, adding layer by layer and forming a firm and uniform bale. The elevator boasts excellent bale feed properties. Rolling starts earlier and so the baling cycle finishes

earlier as well. The elevator also creates a firmer core which leads to a higher bale density and bale weight – important parameters for high-quality silage but also for the subsequent transport.



# Successful baling

Get ahead of your competitors and opt for the fixed chamber round baler Fortima F 1250 – with or without MultiCut cutting system. These machines feature the effective and camless pick-up, the slatted elevator with extra strong chains, a straightforward design, maximum longevity and ease of maintenance and of course high bale densities – assets that will pay off quickly.





#### The enclosed bale chamber

The KRONE concept of an enclosed bale chamber with slat-and-chain elevator has proven extremely well in a wide variety of conditions around the world and for many decades.



#### **Fully tensioned**

The tensioner for the elevator chain operates automatically and fail-safe – for optimum chain tension, maximum operational reliability and longevity.



The Fortima fixed chamber baler

features a simple design and only few

drive chains, a concept that leads

to a reduced input requirement, less

service and maintenance and extra

Convenient

dependability.



MiniStop – more bales, higher profits The ejector throws the bale clear of the rear door and also serves as a tray that collects the bale. This allows the operator to go ahead with the next bale while the rear door is still closing.

### Variable chamber balers

Fortima V1500, V1500 MC, V1800, V1800 MC

- Variable 1.00 m to 1.50 m (3'3" to 4'11") or 1.00 m to 1.80 m (3'3" to 5'11") diameter bales
- Two separate and endless elevators give dependable operation in the most difficult conditions
- A heavy-duty design that copes with very heavy material



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#### A combined grip on the bale

Fortima is equipped with two chain-and-slat elevators, one operating at the front end and the other at the rear to develop high baling pressures and produce perfectly shaped bales.

### Variable bale diameters of up to 1.80 m (5'11")

Our variable Fortima V 1500 and V 1800 models tick all boxes, giving 1-1.50 m (3'3"-4'11") and 1-1.80 m (3'3"-5'11") diameter bales from one machine to cater for grass silage applications where smaller bale sizes are preferred as well as applications in hay and straw where larger bales are typical.



#### **Stunning simplicity**

As more and more material enters the bale chamber, the two chain elevators press layer by layer to form tight and well-shaped round bales. The slats mesh with the crop to provide positive bale rotation at any stage of the baling cycle. The baling pressure is supplied by a hydraulic ram that actuates the tensioners at the front and rear ends. As soon as the bale has reached its preset diameter, twine or net wrapping is triggered. As a last step, the tailgate opens and the bale is ejected.





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#### The perfect solution

Drive chains are few and far between. Few chains mean greater efficiency and better operational reliability.

#### **Positive bale starts**

Fortima features an extra spiral roller profiled with raised bars that in addition to the starter roller – a design that ensures quick bale starts and optimizes the baling process.





### Easy maintenance for reduced costs

Buying a Fortima means tapping into KRONE's long and vast experience and expertise in baler manufacturing. We at KRONE understand the needs of farmers. Our round balers operate around the world and have proven excellently in a wide variety of conditions. Providing high bale densities, KRONE balers are extremely robust, uncluttered and perfectly specified. Last but not least, they offer superior operational reliability.



#### Bale density is controlled infinitely variably

The leading elevator is tensioned by two hydraulic rams – one on either side of the machine. As the tension increases, bale density inside the variable chamber increses as well.

#### **Powerful driveline**

The main gearbox (540 rpm) is positioned centrally. Here, the incoming power is split and sent on to either side, a design that cuts down on driveline lengths and optimizes the power flow to the pick-up, the feed rotor or rotor cutter and the chain-and-slat elevator.



Perfect

**High-density and well-shaped bales** On the variable chamber model, two hydraulic rams, one on either side of the rear door, exert the full baling pressure at the rear of the baling chamber.

service and maintenance costs.

The quality of a round baler is defined by two criteria – functionality and technical design. Fortima stands out for its uncluttered and efficient design that minimizes





#### Small-diameter bales

Small diameters are typically required in silage applications, because small bales are easier to handle, break up and feed. The 1.00-1.30m (3'3" - 4'3") diameter bales produced by Fortima V 1500 suit most wrappers perfectly.



### Versatile

High versatility and utilization are key parameters in cost-effective round baler operation. A Fortima V 1500 /1800 not only produces highest densities and highest-quality bales in difficult conditions but offers typical KRONE features, including the camless



EasyFlow pick-up and the optional bale ejector with ejector arm.

#### Bale ejection guaranteed

On the variable chamber model, the optional ejector is linked to the rear door and tips as the door opens, allowing the bale to roll onto the ground and clear of the closing rear door, There is no need to reverse the tractor at the end of the wrapping cycle.



#### Large-diameter bales

Large-diameter bales are often preferred in straw and hay as they offer better efficiency, save wrapping material and reduce labour costs.





#### Plenty of storage capacity

The large storage compartment holds up to 11 balls of twine. Hoops hold the rolls in place for smooth uncoiling.

#### **Convenient functionality:**

The tying cycle is triggered by an electric motor. The motor tensions the drive belt, which drives the rubber wheel and this in turn pulls the twine into the chamber.





### Four threads bring four-fold quality

QuattroSpeed is the new KRONE tying system that provides considerable cuts in tying times over the existing twin twine tying system. Simple by design, KRONE QuattroSpeed is an extremely dependable system, which ensures good overlap and multiple wraps along the edges. QuattroSpeed translates into well-shaped bales and maximum density at minimum costs.





#### Perfect twine guidance:

A coned pulley controls the number of twine wraps applied per cycle. Two guide blocks are used to distrubute the four threads uniformly across the full width of the bale. As the wrap cycle starts, the threads run over the rubber wheel and the pressure roller into the bale chamber, where they are picked up by the rotating bale.



#### Perfect bales every time

Four threads (1-4) tie the bale a number of times, applying extra twine along the edges depending on the settings.

QuattroSpeed ensures the bales keep in shape as they are handled several times over.



#### Well-shaped bales

The adjustable net brake wraps the bales tightly and ensures they retain their integrity in transport.

#### Bale watch:

A sensor on a toothed wheel measures the number or wraps applied and transfers the information to the cab computer. Once the set number of wraps have been applied, the net is cut automatically.





# Less fuel per bale

Fortima's net wrap system is straightforward by design and offers superior functionality. The advantage of net wrapping is that it is faster than twine wrapping and helps you produce more bales per hour. Higher throughputs free up valuable time that can be spent on other jobs and cut the tractor's fuel consumption per bale. The net wrap system accepts rolls with a total net length of up to 3,600 m (11,811 ft).





#### **Convenient functionality**

At the end of the baling cycle, the electric motor triggers net wrapping – either automatically or manually.



#### For long working days

The large storage compartment holds three net rolls and protects them from rain. The rolls may provide up to 3,600 m (11,811 ft) of netting and are secured by a retainer.



#### Easy fitting

Fitting the rolls or balls is easy and convenient from the ground. To replace an empty net roll, simply swing out the dispenser arm and slide the fresh roll onto it. Then the net is fed nto the net wrap system.



#### Adjustable bale densities:

On the variable chamber model, this pressure valve controls bale density via hydraulic rams that tension the chain-and-slat elevators – a quick, easy and accurate system. The gauge shows the current baling pressure.



#### The control center

This is the all-important box: The job processor records all sensor pulses and sends them on to the control unit as well as triggers automatic wrapping.



# Logical operation for long working days

Long working days call for high operator comfort. The 'Comfort' operator terminals provide the operator with all current machine data and allow him to interfere instantly as required.



#### The Beta terminal

The Beta terminal offers icon based navigation and shows the current bale diameter or density, triggers the wrapping cycle either automatically or manually, sets and controls the number of wraps and shows bale counts as well as retrieves valve and sensor functions.



#### The CCI 200 terminal

The CCI terminal offers all functions that are available from the Beta terminal plus compatability with ISOBUS implements of other makes. The colour touchscreen, high-quality controls, a shut-off key that stops all current electric functions as well as inputs for an extra joystick (AUX) and a CCTV camera provide a very high standard in operator comfort.



#### TIM:

The optional TIM Tractor Implement Management system automates all processes and takes strain off the operator, stopping the tractor the moment twine/net/film wrapping starts and controling the rear door. TIM is based on the KRONE Comfort electronic specification and requires a number of extra sensors as well as a TIM compatible tractor.



### Fortima High in output, low in maintenance

Easy access for easy maintenance

- Automatic chain lubrication Option on fixed-chamber Fortima models
- Automatic chain tensioning

#### Scoring on long service life:

The automatic chain lubrication system benefits from a large oil reservoir and eccentric pump for minimum maintenance and added viability.



#### Automatic chain lubrication:

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An eccentric pump supplies oil to the chain drives at a rate set on the eccentric shaft.



# Easy maintenance for reduced costs

Not only is Fortima designed for highest densities and outputs but also for an uncluttered layout and easy access to all service points. Service and maintenance are as easy as it can get, with lubrication banks and automatic chain lubrication cutting effort and time down to a minimum. We took care of every detail.



#### Clean:

To avoid downtime due to contaminated oil, the variable chamber Fortima features an oil strainer with a visual indicator – to ensure optimum functionality and peace of mind.

Tortima



#### **Operating like clockwork:**

Spring-loaded and automatic chain tensioners reduce the time spent on maintenance and provide for extended chain service life. Longevity is one of KRONE's major concerns.



#### Maximum operator comfort:

All 'hidden' lubrication points are grouped in easy-access lubrication banks, making service and maintenance less time-consuming and more convenient.



#### Ultimate flexibility

The drawbar is equipped with a gear cam to adjust easily to any height and tractor end – pin hitch, floating hitch, hitch hook and ball hitch.



### The universal machine

Special conditions require special equipment. To meet all our customers' requirement, Fortima is available with a wide range of running gear. Choose from standard and tandem setups, braked and unbraked versions as well as air and hydraulic brakes (export version).







#### **1.** Choice of tyres to suit your needs:

The standard axle is available with 11.5/80-15.3 10 PR to 500/50-17 10 PR sized tyres. Large flotation tyres reduce the risk of ground compaction and rutting.

#### 2. Light-footed and smooth-running

The optional tandem axle gives soft, quiet and safe running. The choice of tyres available ranges from 11.5/80-15.3 10 PR to 19.0/45-17 10 PR.

#### 3. Safety is key

An air brake system is available as optional specification for Fortima V 1500. Export models can be specified with hydraulic brakes.

#### 4. High-stability stand:

The crank height adjustable stand has a telescoping end that can be retracted to increase the ground clearance in voluminous windrows.



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### Technical Data

### Fortima fixed chamber model

		Fortima F 1250	Fortima F 1250 MC
Bale width	approx. mm	1.200 (3'11")	1.200 (3'11")
Bale diameter	approx. mm	1.250 (4'1")	1.250 (4'1")
Length	approx. mm	4.100 (13'5")	4.100 (13'5")
Machine length incl. ejector	approx. mm	4.100 (13'5")	4.100 (13'5")
Height	approx. mm	2.520 (8'3")	2.520 (8'3")
	approximit	2.020 (0 0 )	2.320 (0.0.7)
Single-axle model width by tyre size 11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR 500/50-17 10 PR	approx.mm approx.mm approx.mm approx.mm	2.570 (8'5") 2.570 (8'5") 2.670 (8'9") 2.700 (8'10")	– 2.570 (8'5") 2.670 (8'9") 2.700 (8'10")
Tandem-axle model width by tyre size 11.5/80 -15.3 10 PR 15.0/55 -17 10 PR 19.0/45 -17 10 PR	approx. mm approx. mm approx. mm	2.735 (9') 2.840 (9'4") 2.950 (9'8")	 2.840 (9'4") 2.950 (9'8")
Camless pick-up Collection width (DIN 11220)	approx. mm	2.050 (6'9")	2.050 (6'9")
Number of tine rows		5	5
Feed rotor		Standard	-
Rotor cutter		-	Standard
Maximum number of knives		-	17
Minimum knife spacing	approx. mm	-	64 (2.5")
Available tyres for single-axle models		11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR 500/50-17 10 PR	_ 15.0/55-17 10 PR 19.0/45-17 10 PR 500/50-17 10 PR
Available tyres for tandem-axle models		11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR	_ 15.0/55-17 10PR 19.0/45-17 10PR
Minimum tractor power	kW/hp	36 / 50	36 / 50
Power input		12 V	12 V
Speed	rpm	540	540
Hydraulic couplers		2sa	2sa

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



### Technical Data

Fortima

		Fortima V 1500	Fortima V 1500 MC	Fortima V 1800	Fortima V 1800 MC
Bale width	mm	1,200 (3'11")	1,200 (3'11")	1,200 (3'11")	1,200 (3'11")
Bale diameter	mm	1,000 - 1,500 (3'3" - 4'11")	1,000 - 1,500 (3'3" - 4'11")	1,000 - 1,800 (3'3" - 5'11")	1,000 - 1,800 (3'3" - 5'11")
Length	mm	4,570 (14'10")	4,570 (14'10")	4,960 (16'3")	4,960 (16'3")
Length incl. bale ejector	mm	4,955 (16'3")	4,955 (16'3")	5,270 (17'3")	5,270 (17'3")
Height	mm	2,700 (8'10")	2,700 (8'10")	2,850 (9'4")	2,850 (9'4")
Width of single-axle models if fitted with the following tyres 11.5/80 -15.3 10 PR 15.0/55 -17 10 PR 19.0/45 -17 10 PR 500/50 -17 10 PR	mm mm mm	2,570 (8'5") 2,570 (8'5") 2,670 (8'9") 2,700 (8'10")	_ 2,570 (8'5") 2,670 (8'9") 2,700 (8'10")	2,570 (8'5") 2,570 (8'5") 2,670 (8'9") 2,700 (8'10")	_ 2,570 (8'5") 2,670 (8'9") 2,700 (8'10")
Width of tandem-axle models if fitted with the following tyres 11.5/80 -15.3 10 PR 15.0/55 -17 10 PR 19.0/45 -17 10 PR	mm mm	2,735 (9') 2,840 (9'4'') 2,950 (9'8'')	– 2,840 (9'4'') 2,950 (9'8'')	2,735 (9') 2,840 (9'4'') 2,950 (9'8'')	– 2,840 (9'4") 2,950 (9'8")
Camless pick-up Work width (DIN 11220)	mm	2,050 (6'9")	2,050 (6'9")	2,050 (6'9")	2,050 (6'9")
Number of tine rows		5	5	5	5
Feed rotor		Standard	-	Standard	_
Rotor cutter		-	Standard	-	Standard
Maximum number of knives		_	17	-	17
Minimum knife spacing	mm	-	64 (2.5")	-	64 (2.5")
Available tyres for single-axle models		11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR 500/50-17 10 PR	– 15.0/55-17 10PR 19.0/45-17 10PR 500/50-17 10PR	11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR 500/50-17 10 PR	– 15.0/55-17 10 PR 19.0/45-17 10 PR 500/50-17 10 PR
Available tyres for tandem-axle models		11.5/80-15.3 10 PR 15.0/55-17 10 PR 19.0/45-17 10 PR	– 15.0/55-17 10PR 19.0/45-17 10PR	11.5/80-15.3 10PR 15.0/55-17 10PR 19.0/45-17 10PR	– 15.0/55-17 10PR 19.0/45-17 10PR
Power requirement	approx. kW/hp	36 / 50	36 / 50	40 / 55	40 / 55
Power input		12 V	12 V	12 V	12 V
Driveshaft speed	r/pm	540	540	540	540
Hydraulic couplers		2 sa free return line	2 sa free return line	2 sa free return line	2 sa free return line

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





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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.

Your KRONE dealer



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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.

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