



# FARMPACKING



**MOBA**

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# DESIGNED FOR YOUR PROFIT

Moba Farmpackers are designed for your profit. High performance machines with net capacities close to the theoretical maximum, combined with well-built, robust designs. Low-maintenance technology, together with their hygienic and easy-to-clean construction make Mopack Farmpackers reliable and hardworking companions for many years to come.





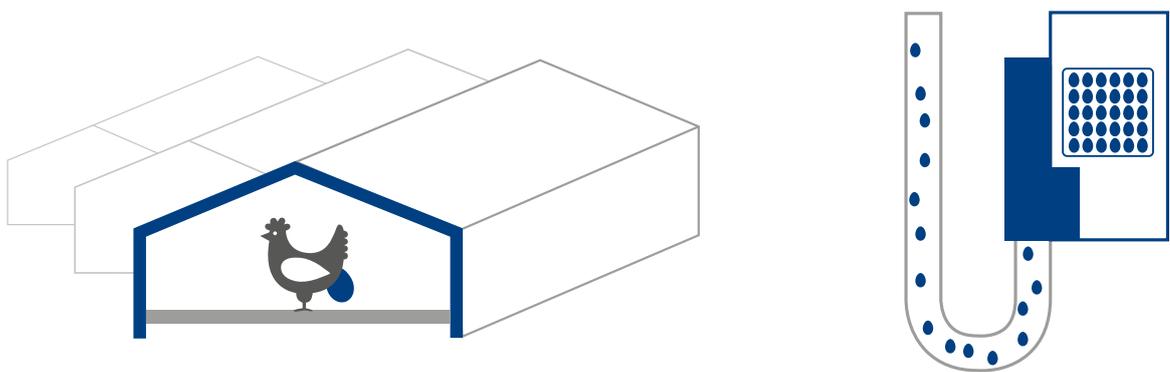
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# PURPOSE

Farmpackers are used on layer farms. Eggs produced on a farm, are made transportable by placing the eggs automatically in trays, and optionally also on stacks and pallets.

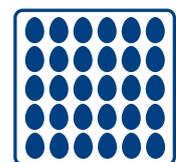
# FARMPACKING PROCESS

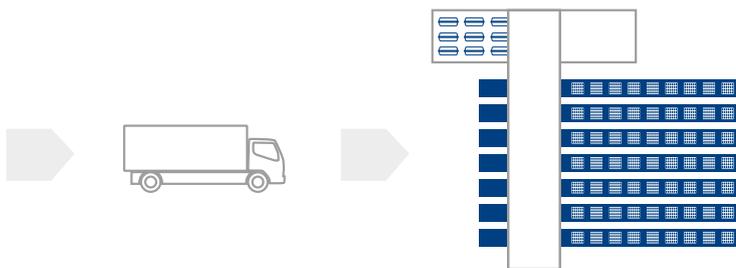
In industries where offline grading machines are typically used, Farmpackers are the connecting link in the industry chain. If farmers sell their eggs to egg grading and packings stations, the packing process on the farm itself becomes crucial. The difference between a good and a bad Farmpacker can make a large percentage difference to the number of cracked eggs. This reflects an enormous value per year. With a Moba Farmpacker, you can rely on the most gentle egg handling, as well as a global service network that will support your business with service and parts for many years to come.



LAYER HOUSES

FARMPACKING





**GRADING & PACKING STATION**



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# KEY ADDED VALUES MOBA FARMPACKERS

## INDIVIDUAL EGG HANDLING AND THE GENTLE TOUCH

To prevent hairline cracks in your product and to offer a high nett capacity, Mopack is working in line with a so called 'individual egg treatment principle'. This principle begins the moment the eggs find their way onto the rollers. These rollers' unique shape ensure that the eggs are settled quickly and effortlessly, preventing hairline cracks and consequently, cross-contamination. After the moment the eggs arrive on the rollers, eggs never touch each other again. This in contrast with many other farmpackers that use technology where eggs collide and touch for longer periods of time, resulting in damaged cuticles and an increased crack-risk. This principle continues in the grippers and dropset, and only ends when the eggs are gently placed into the trays.



### Trouble free Farmpacking

Farmpacking is a crucial process in the egg industry. Because your layers are producing eggs every single day, it's vital for continuity that you can pack your eggs without interruption. Mopacks therefore use reliable, proven and robust technologies. An example can even be found in our concept choices in the denester, used on all Farmpackers. By using a concept in which we denest the packages upside down, we prevent denester faults. This results in less downtime, and helps you pack your eggs in an efficient manner.

### Easy to clean

The entire construction is easy to clean. All Moba Farmpackers are made of stainless steel and use Moba's famous synthetic parts for the hygienic and gentle handling of eggs. All the techniques resulting from Moba's long-time experience are brought together in these Farmpackers. Sensitive parts are placed above the egg flow wherever possible. The conveyors are constructed in such a way that accumulation of dirt and egg contents are limited to the absolute minimum.

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# MOBA AS YOUR FARMPACKING PARTNER

### Service network

Because you, as no other, know that a Farmpacker related problem won't stop your layers from producing eggs, it is vitally important to have a reliable service network available in the event that you need support at any time. This is why the Moba Group Service and After Sales organization consists of professionals who are dedicated to supporting our customers at all times. Our Service and After Sales organization offers field service support, 24/7 helpdesk support, customer care, and the availability of certified spare parts close to where our customers are located. We strongly believe in a personal and people oriented approach towards our customers, resulting in being reliable at heart.

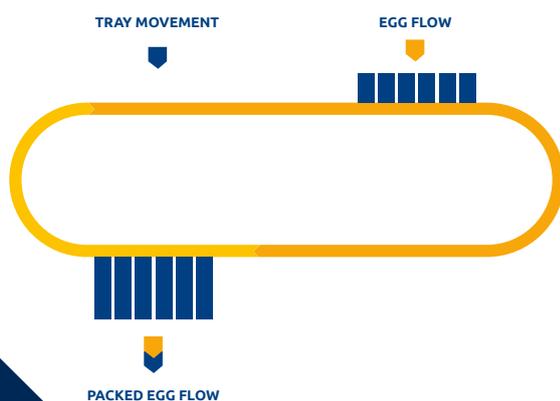
# CARROUSEL-BASED FARMPACKERS

Mopack40-55-70-100

**For low- to medium capacity Farmpacking needs, Moba offers the Mopack40, -55, -70 and -100. Mopack Farmpackers are designed for your profit. High performance machines based on many years of experience. The concept of the carousel results in the best possible egg handling and the highest net-output in the industry.**

## Carousel Principle

A fundamental principle of all Mopacks is the continuous flow of eggs. Many Farmpacker concepts wait until there is one complete row of 6 eggs coming directly from an accumulator. Only then does the packer make a movement, receive these eggs and, at the same time, places 6 previously fetched eggs in a tray. But, when one egg is missing or there is not enough pressure to push this 6th egg forward in one channel, the other 5 eggs will have to wait and the whole farmpacker process stands idle.



Not with Mopack. Here, eggs are accumulated and put on rollers independent of the packing process. If one egg in the flow is missing, one gripper in the carousel remains empty, but the rest of the process continues, in contrast to other designs where 5 eggs are simply waiting for the 6th egg to arrive.



After the arrival of the 6th egg in the dropset, the Farmpacker places all the eggs into a tray in one cycle. The result of the concept of individual egg handling is:

1. A net production which is very close to theoretical maximum;
2. Lowest possible impact on the eggs.

# FUNCTIONAL OVERVIEW

## Simple and Robust

The Mopack carousel offers more advantages than simply having a high net capacity. The carousel allows a design where vital parts are placed above the egg flow, thereby preventing pollution. To allow an overview of your packing process, see-through plastic materials or perforated sheet metal is used without compromising safety regulations. This allows you to monitor the egg flow, and see that every individual egg is gently placed into the trays.

## Continuous inkjet integration

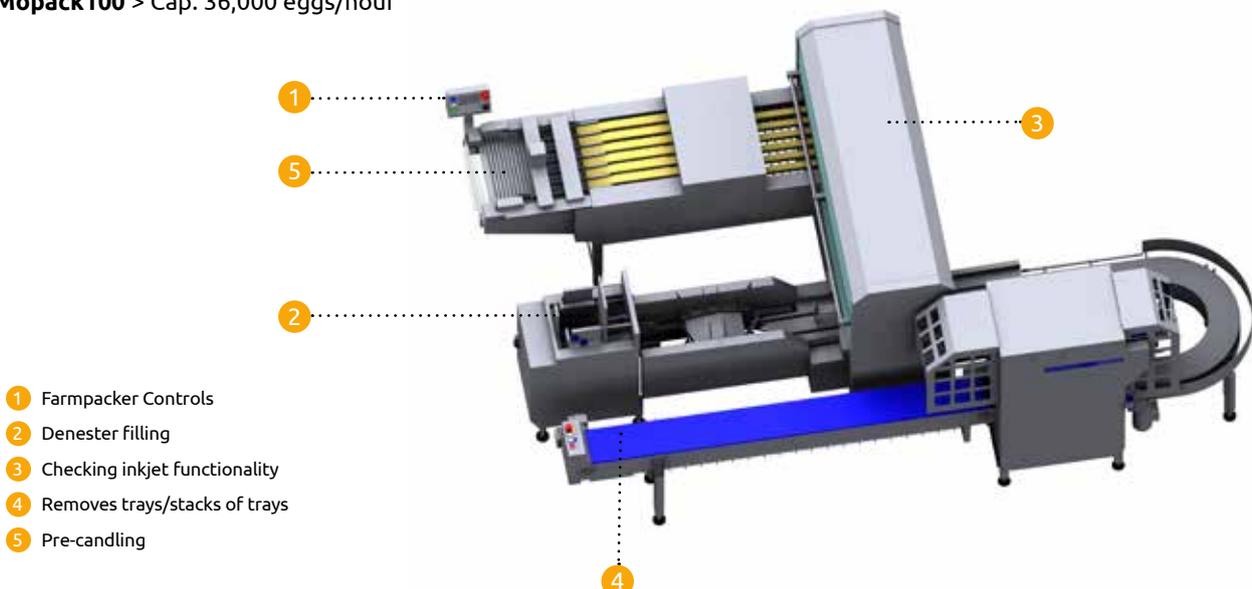
An advantage of the carousel concept is the seamless integration possibility for a continuous inkjet system. These no-maintenance, single headed printers are more suitable for rough industrial purposes than drop-on-demand/cartridge printers. The carousel system offers the ideal basis for this, since the eggs travel in series before entering the trays. This enables you to print your eggs using a continuous inkjet printer. Compared to a cartridge printer, the total cost of ownership is lower, and the reliability and print quality is higher.



## Overview and efficiency

With various layout possibilities, we can accommodate a good design for almost any egg packing room. A preferred layout is shown below. It is configured in such a way that the operator not only starts and stops the machine (1), but also fills the denester (2), checks the inkjet functionality (3) stacks or places stacks of trays onto pallets (4) and, perhaps most importantly, pre-candles the eggs before packing (5), all from one central position.

**Mopack100** > Cap. 36,000 eggs/hour



# HIGH CAPACITY FARMPACKING

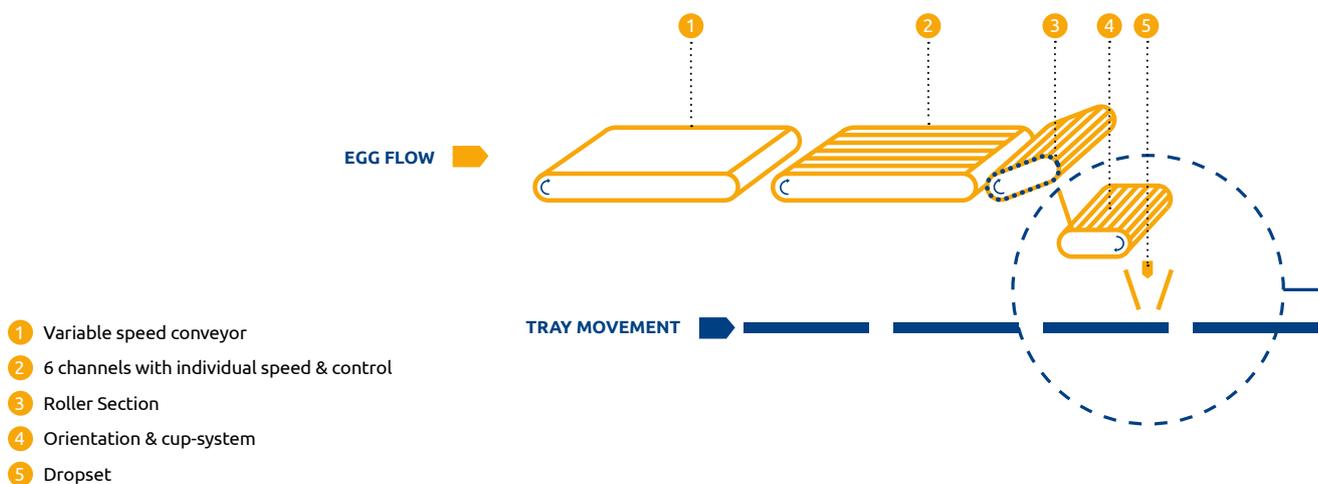
## Mopack150

**For situations in which high capacity is required, Moba offers the Mopack150. This intelligent Farmpacker is capable of packing 54,000 eggs/hour and is ideal for large scale farms.**

### Mopack150 principle

First, the eggs arrive at the accumulator. This accumulator is speed controlled, based on the influx of eggs from the layers' houses. The next accumulator conveyor is divided into six individual channels. Each channel is speed controlled in such a way that all the eggs are smoothly placed onto the infeed rollers. This results in a continuous movement until the eggs are packed into the trays, with no necessity for waiting for the 6th egg, as with a conventional Farmpacker with packer head.

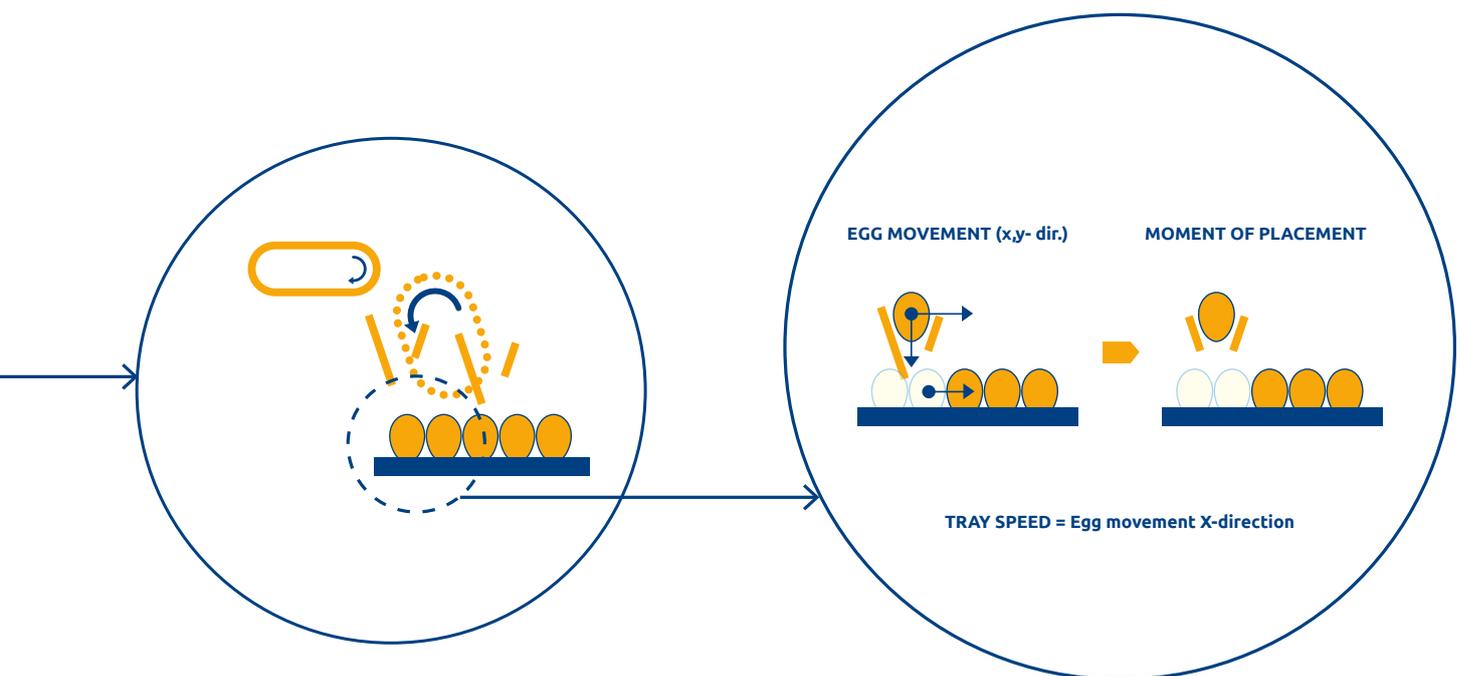
After the entry ports, the eggs will be oriented on a small roller section and placed point forward onto transport cups. The cups are mounted in a way that allows for excellent egg handling. The cups will transport the eggs to the next stage: the drop system. The conversion to the correct pitch of the tray is also carried out by this cup-system.





**Mopack150** > Cap. 54,000 eggs/hour

The drop system itself is also characterised by a continuous movement. Two egg-guides rotate and guide the eggs down with a forward movement equal to that of the continuously moving tray. This way, the eggs are placed with a zero difference in speed. The result: even the weakest eggs are placed in the trays perfectly.



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# HYGIENE & CLEANABILITY



All the egg-touching parts of the Mopack150 can be removed from the machine for cleaning outside egg packing room. The main advantage of this construction method is that this allows for a hygienic and clean packing process. This will ultimately result in more grade-A eggs being supplied to your egg retailer.



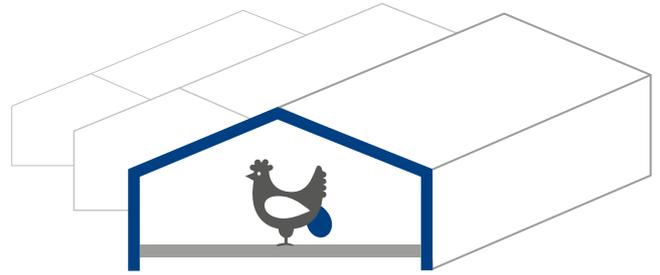
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# EFFICIENCY AND FUTURE PROOF

The Mopack150 is perfect if you want to further optimize your packing process and prepare for further automation. For example, the Mopack150 can be seamlessly coupled to a Moba Traypalletizer (MR40). This creates a Farmpacking station with hardly any manual labour.



# REPACKING PROCESS



## Mopack R

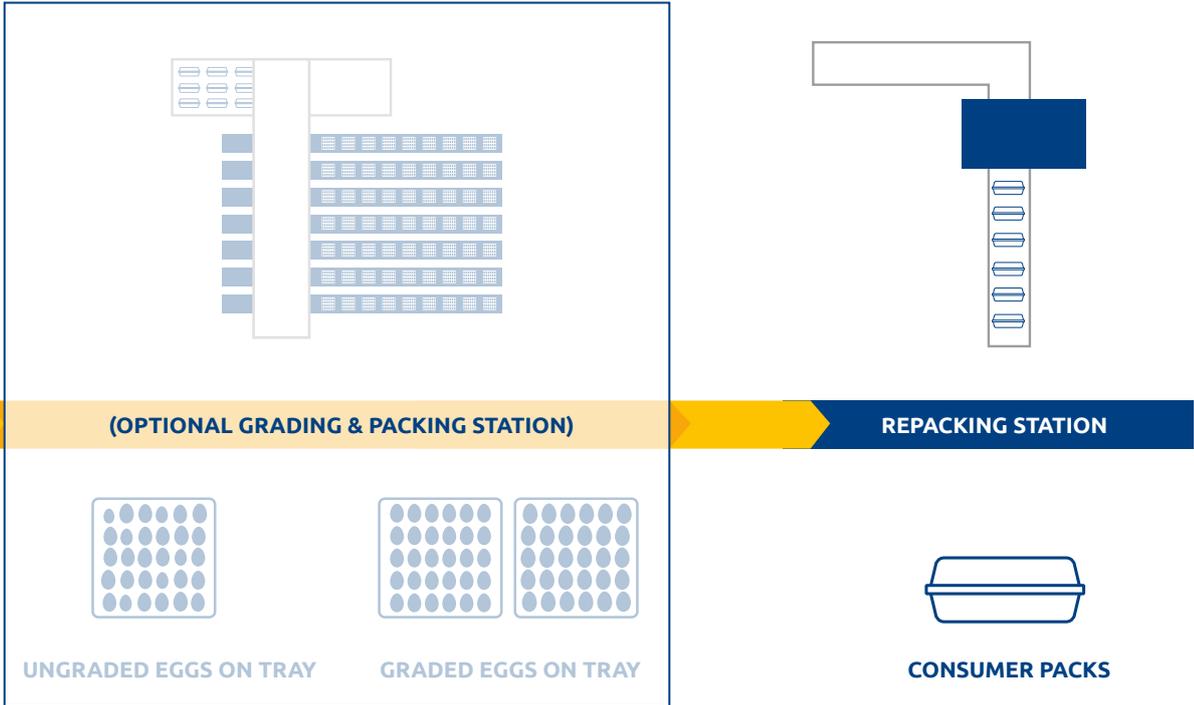
LAYER HOUSES



Mopack R is a system that can pack eggs directly into consumer packs. The eggs can come in directly from the chicken houses, just like in any Farmpacker, or from trays via an optional loader, making it a Repacker. The system is based on the Mopack 100 technology and has all the same advantages, but using a different type of packing conveyor and denester, which allows you to process different types of packaging.

Repackers are used in situations where grading eggs is not required, and farm eggs are directly packed into consumer packs. Incoming eggs can be sent to the machine directly from the chicken houses or by using a loader. This last situation is also used to re-process graded eggs on trays into consumer packs.





**Mopack R** > Cap. 30,000 eggs/hour

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