



FORTA

GT100



MOBA

OUR STRONG BELIEF

In today's egg grading and packing stations, three aspects are of crucial importance for a worry-free operation:

- **Topline technology:** equipment should include the latest innovations, with easy-to-control interfaces and match the capacity need of your operation.
- **Future-proof machine platform:** Every operation is dynamic and subject to change following organizational growth. Therefore, the equipment should be expandable during the life cycle, to meet your current and future needs.
- **Hygienic design:** reliable and food-safe production starts with hygienic equipment, which is easy to clean.

The above-mentioned aspects are all required for egg grading equipment. With the Moba Forta platform, these aspects are perfectly fulfilled by incorporating topline technology, such as the famous individual egg handling concept. With a max. capacity of 100 cases/hour, the Forta can be expanded with different detection devices and packing lane options to match your specific operation. The machine is fast & easy to clean which ultimately reduces labour costs.





Capacity upto 100 cph



Topline technology



Hygienic design



Your future-proof machine platform

FORTA GAME CHANGER FOR YOUR OPERATION



Topline technology

An important factor in the decision-making process when investing in a new egg grader is the total cost of ownership (TCO). Therefore, Moba used a design approach in which proven and reliable systems are combined with the latest technology. And, coupled with Moba's worldwide service network, this will result in a low total cost of ownership. Making the Forta a cost-effective grading and packing solution.

User-friendly product-orientated controls

The complete controls of the Moba Forta is based around two main screens. By means of the user-friendly main control panel, products with all their applicable characteristics can be programmed and saved. This enables you to quickly set up new products on the different packing lanes and produce a constant product quality. The large status-screen displays the actual status of the machine, in combination with the lane configuration. This quickly tells you which products are processed and to which quality levels they comply. By using the info button on the packing lanes or take-away conveyors, more detailed information about a lane is shown. This enables quick and easy product changes, which increases the overall efficiency of the machine.

iMoba ready: all the info you need at your fingertips

iMoba is a user information service that provides insight into the production and quality performance of your grading operation. The service will offer instant insights on a management level with the option to drill down into detailed views. Information about key performance indicators, such as supplier quality, grading countings and efficiency is shown in simple-to-read graphs and overviews. The results can be reviewed on any smartphone, tablet or computer as the system is completely web-based.





Your future-proof machine platform

Automating your candling process

The intelligent detection devices can be optionally added to the Moba Forta. These devices examine each individual egg and determine the quality and grade. This eliminates the need for manual inspection of the egg flow, and in this way optimizes the effectiveness of the grading operation.

The Moba Forta can be equipped with the following detection devices:

EggInspector (optional)

Vision system to inspect the shells of the eggs for irregularities. It can detect dirt spots as well as leakers. The EggInspector operates on both brown and white eggs.

Blood detection (optional)

Spectrum analysis is used to analyse the contents of the egg for blood spots. Blood eggs can either be programmed to a specific packing lane or the machine outlet.

Shell inspector (optional)

This magneto-acoustical system detects even the smallest hairline cracks. The smart software in Forta makes it possible to sort out the cracked eggs afterwards.





Crucial parts of the Moba Forta > can be low pressure foamed and washed down. Other egg touching parts can be removed for Cleaning Out of Place (C.O.P.) after production.



Hygienic design

Cleaning system

One crucial aspect of working within the egg industry is food safety. We know that food safety always starts with a hygienic machine design. Besides keeping dirt accumulation to a minimum by using open, full stainless steel constructions, hygienic design also means creating equipment which is easy to clean after production.

Hygienic features enabling food safety during production:

- Full stainless steel construction
- Individual egg handling
- Constructions designed to keep dirt accumulation to a minimum
- Individual roller brushes for both roller sections
- UV on eggs and rollers (optional)

Hygienic features enabling food safety post-production

- Full low-pressure downwashable infeed & packing lanes
- Central dirt water drainage
- Crucial egg touching parts ready for C.O.P. such as:
 - Robust weighing bridges in transfer
 - Receiver sets in packing lanes
- Open construction which can be cleaned quickly and easily

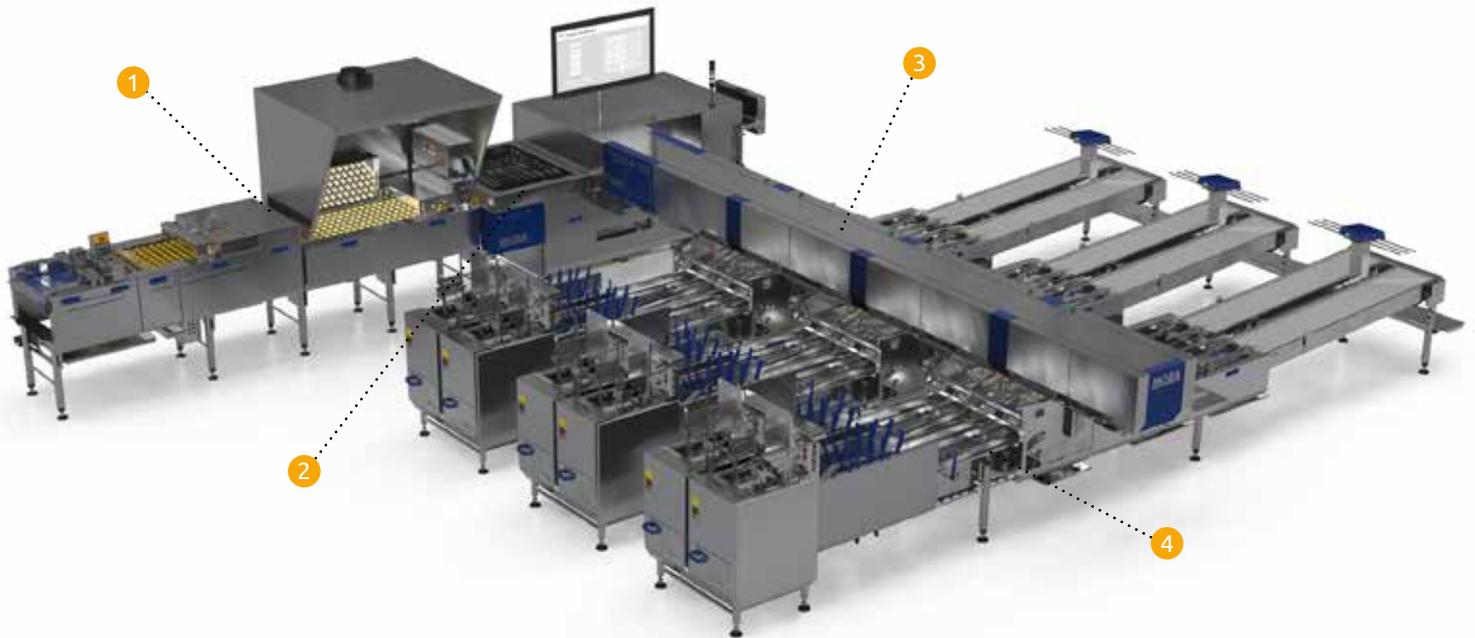
INDIVIDUAL EGG HANDLING

Moba is the inventor of the concept of individual egg handling, also known as 'the gentle touch'. The basic idea is that each egg is treated as an individual product; from the moment the eggs arrive on the rollers at the infeed section, all the way down to the consumer pack, any contact between eggs is avoided. Our industry confirms that individual egg handling results in at least a 2% increase in sellable eggs.

Just as important as eggs getting the gentle touch, it is of vital importance that the computer system keeps the data of each individual egg in its memory. This is the basis for future expansions in for instance the field of traceability.



A TOUR THROUGH THE MACHINE



1. Infeed

Moba Forta has a full low-pressure downwashable infeed. The infeed can be connected to an accumulator for inline operation, or to a loader for an offline operation, or even a combination of both. The infeed is standard equipped with a mechanical orientation device, as well as a candling booth with a detection for foreign objects. This detection prevents machine failures in case of unwanted objects on the infeed.

To prevent cross-contamination and reach a high level of hygiene, the infeed is equipped with two roll cleaning brushes, for quick & easy cleaning. To even further reduce cleaning time, the infeed is equipped with a central dirt-water collection system. This system is designed in such a way that dirt-water is collected, and guided to a central location of your choice. This helps you clean your machine in less time.



2. Weighing system

The weighing system is mounted directly behind the infeed and ensures stable and accurate results. To prevent pollution, the construction is open and robust, which makes cleaning easy. After production, parts of the weighing system can be removed. After the weighing system the eggs pass a continuous transfer system that keep the impact on the eggs to an absolute minimum. This transfer is easily accessible for cleaning and is mounted in the same stainless steel frame as the weighing unit which eliminates the need for critical adjustments.



3. Transport frame

The main transport frame leads the eggs to the packing lanes. They can optionally pass inkjet devices, blood detection and an offgrade outlet. Once they reach the packing lanes, the eggs are released from the transport frame into the receiver sets, with active forward speed compensation, to secure the gentle touch.



4. Automatic packing lanes

Automatic packing lanes start with a denester and pin conveyor. The empty packs are destacked in the denester and placed in a pin conveyor one by one. This creates a temporary buffer that is useful to correct packing lane problems or to switch to another type of packing without stopping the process. In the packing lane, the receiver set receives the eggs from the main transport frame. The receiver set can be removed for COP for maximum food safety. By a simple press of an 'Info' button, all the applicable settings of a packing lane are shown on the main machine display, placed on top of the main transport frame. This enables quick interventions or product changes. In combination with the right settings and info, the Moba Forta packing lanes are capable of handling the largest variety of pack types in the world, making it a versatile system for many years to come.

SPECIFICATIONS

Standard

- Foamable and low pressure cleanable infeed system with mechanical orientation system
- Central dirt-water collection under infeed
- Two roller cleaning brushes during operation for wide and narrow roller section.
- Weighing system with removable weighing bridges for C.O.P.
- Transfer with continuous moving arms
- Track system to transport eggs to packing lanes
- Packing lanes (low pressure downwashable) in various combinations (customized layout) with a maximum of 18 lanes:
 - Automatic packing lanes with or without denesters
 - Manual packing lanes for less frequent products
- Take away lanes for consumer packs and trays
- Main control panel
- Central status display for actual information about machine operation and packing lane info
- Inkjet provisions include:
 - electronic interface with message select for each lane
 - space reserved for printer inside main transfer
 - mounting position for printerhead
- Packer parts that touch eggs can be foamed and low pressure cleaned or COP
- Overvoltage protection
- Helpdesk connection system (internet connection required)
- iMoba ready

Semi-automatic Candling system (optional)

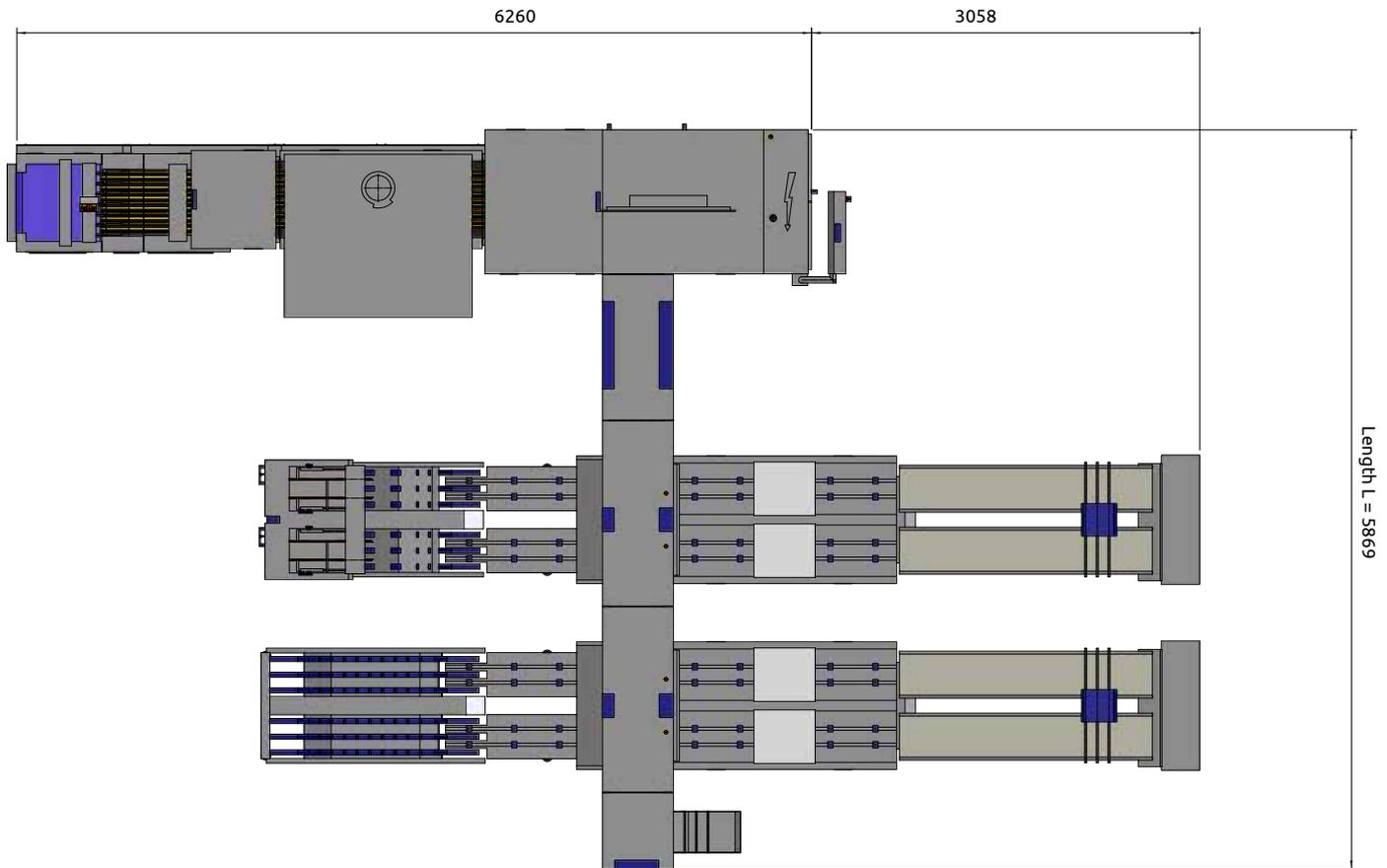


Intuitive controls at packing side [^]

Options

- Accumulator for inline operation connected to egg conveyors from layer houses
- Loader for offline operation; the eggs come in on trays
- Egg washer and dryer integration
- Crack detection
- Dirt and leaker detection
- Blood detection
- Candling booth with semi-automatic candling system for assigning offgrades to specific outputs of the machine
- Infeed extensions to accommodate custom layout
- Frame extensions in between blocks of packing lanes
- Automatic packing lanes:
 - With single or double manual take-away conveyors
 - Can be equipped with single or double traystackers
- Manual packing lanes
- Denesters on packing lanes
- Missing pack system (stops packing lane when no packs are detected)
- Missing egg system (prevents closing of consumer pack if an egg is missing)
- Foamable and low pressure cleanable closers for consumer packs
- Drop gate for unwanted eggs in main transport frame
- UV disinfection system for eggs and narrow roller section

Layout



Specifications

Max. capacity	100 cases/hour 36,000 eggs/hour	
Max. number of packing lanes (combination of manual and automatic)	18	
Infeed rows	6	
Track	1	
Length* L @ number of lanes	2 lanes	L = 4393
	4 lanes	L = 5869
	6 lanes	L = 7345
	8 lanes	L = 8821
	10 lanes	L = 10297
	12 lanes	L = 11773
	14 lanes	L = 13249
	16 lanes	L = 14725
	18 lanes	L = 16201

*in combination with space reserved for dropgate in track and inkjet for printing on both sides of the egg. Length can be reduced by 738mm, in shortest configuration.



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