

GRADY

3001

Automatic grading devices
for broiler breeder rearing



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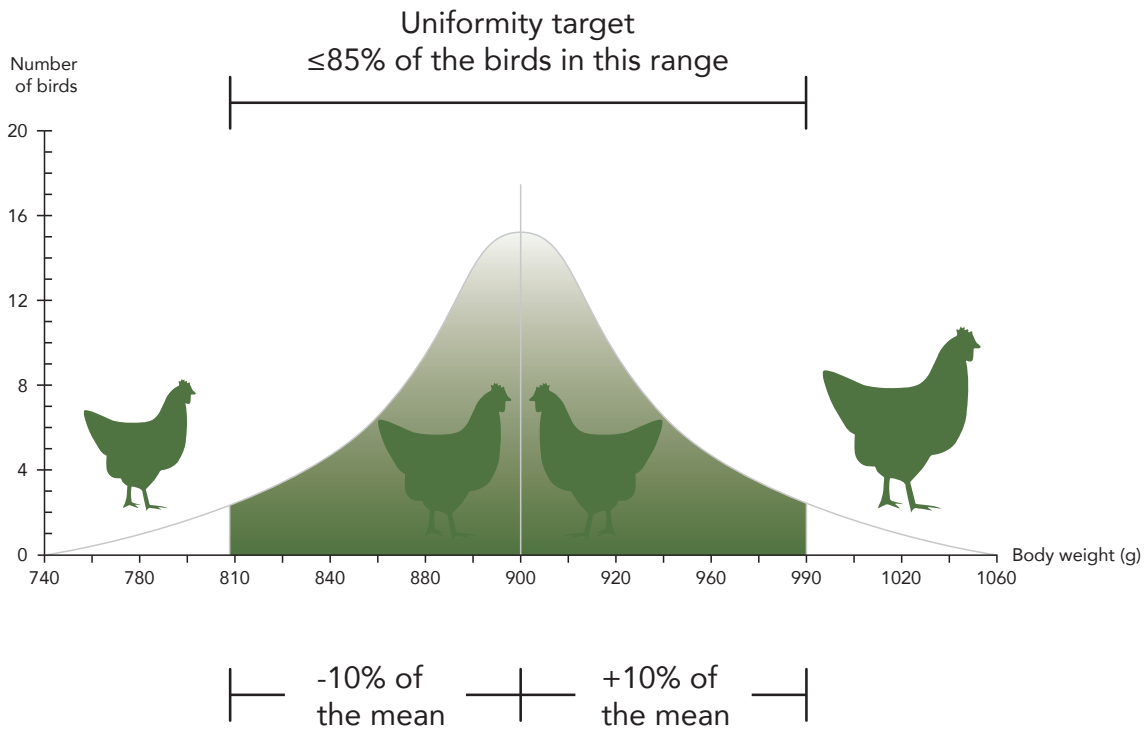


GRADY 3001

For an effective and time-saving grading process

GRADY 3001 is the right choice for you if you want to simplify the working process in broiler breeder rearing. The device ensures that grading is done efficiently, allowing you to save time and resources, as well as respecting animal welfare.

It fulfils your needs perfectly for up to 600,000 gradings in your operation (per year on a farm). The patented machine can easily be transported between stables: It is foldable, fits through regular doors and does not take up much storage space. The grading process is made easy with the device and can be combined with vaccinating.



Grading a key factor for successful rearing

The grading of birds by bodyweight is the best way to enhance flock uniformity. A uniform flock is easier to manage than a variable one. Birds in a similar physiological state will respond more uniformly to management factors such as light stimulation and feed management. Grading therefore leads to multiple advantages such as better flock planning, lower mortality and higher peak of performance and persistence.

GRADY 3001 is designed to help you achieve maximum flock uniformity and therefore improve the overall laying performance of the entire flock in an efficient way. The labor-intensive process is made significantly easier, saving you up to 65 % of working time. With the possibility to include vaccination in the grading process, the number of handlings on the birds is further reduced.



Advantages of GRADY 3001



- + Combination of vaccination and grading in one process
- + Reduced labor time of up to 65 %
- + Advanced software concept: smooth functionality, digitalized grading process, exact recording of each bird's bodyweight
- + New cradle design for improved reliability
- + Small, durable and easily movable construction, ensuring efficient transportation between stables
- + Easy and fast setup: foldable with mounted cradles
- + Improved workplace quality through ergonomic advantages
- + Patented cradles for bird fixation
- + More biosecurity through less workforce
- + Economic advantage: return on investment in less than two years

Gathering the birds

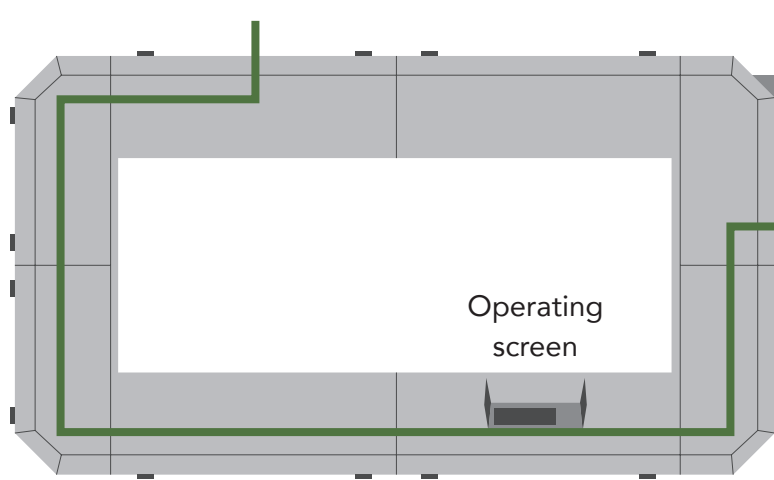


Hanging the birds



Any position of weights possible

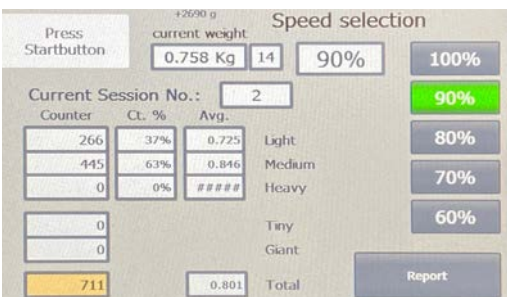
Vaccinating the birds



Vaccinating the birds

How does GRADY 3001 work in detail?

Grading & recording



Each bird is weighed with a high-precision weighing cell and sorted into one of up to three groups. The classification of the groups is based on a sample, which is carried out at the beginning of the process with or without the device.

GRADY 3001 is computer-controlled and operates with an intuitive touch screen. The data from the process can be transferred to a PC and then evaluated with Microsoft Excel or as a pdf. All the weights of the individual birds are recorded and the average weights and the CV values of the flock and each group are automatically calculated.

Performance & setup

Pen/Location	Scale ct.	End ct. %	Avg. wt.	St.Dev.	C.V.	Uniformity
Light	1116	44	0.715	4.486	6.209	68
Medium	1437	56	0.855	2.738	3.186	97
Heavy	3	0	3.427	0.769	0.228	200
House Total	2556	100	0.797	7.755	9.663	156

In theory, GRADY 3001 achieves a performance of 3,700 birds per hour. Practically, a performance objective of over 2,600 birds per hour with only 4 people is easily achievable, including setup and removal of the device and rounding up the birds.

Only two people are required to set up GRADY 3001. Due to the fact that the cradles can stay on the machine at folding and during transport, the time to set it up in working positions is significantly reduced. The cradles are highly robust and reliable thanks to their design.



Grading and vaccinating in one step

GRADY 3001 provides the possibility to grade and vaccinate the birds in one simplified process. Therefore, workers only have to handle the birds once for grading and vaccination, allowing a better utilization of working time while minimizing the stress for the birds.

With GRADY 3001, the birds are optimally positioned for a smooth and time-efficient vaccination process. The special patented cradle supports the birds at the base of their wings, presenting the breasts of the birds directly to the person vaccinating. This allows for fast, safe and accurate vaccinations. Other forms of vaccine applications, such as eye-drop or in the wing-web, are also made possible with GRADY 3001. GRADY 3001 is equipped with up to three positions for vaccinators to supply different vaccines to the birds.



GRADY 3001

Technical overview

Dimensions	Length: 2213 mm Width: 1408 mm Height: 1488 mm Weight: 330 kg Wheels: Easy to move through farm house / fixable
Foldable frame with dimensions:	Length: 2213 mm Width: 843 mm Height: 1799 mm
Material	Stainless steel, welded frame, plastic polyamide, polyethylene, iglidur H1
Electric requirements	110/230 volt and 50 Hz or 60 Hz/adjustable to local requirements/fits to normal sockets/all electric devices are controlled by the switch box
Speed	Up to 3.700 birds/hour
Software & controller	<ul style="list-style-type: none"> → Touch display → Siemens 9 inch touch display IP 69 → USB slot for data transfer / grading protocol, uniformity calculation, optional wifi-control → Remote control for service → Direct calculation of CV and uniformity on the machine → Presorting for group setting
Cradles	18 pieces for birds from 300 g to 3000 g
Using	2 LED lights for vaccination, hygienic design
Scope of application	Suitable for grading up to 600.000 birds per year



Agri Advanced Technologies: From research to practice.

We are happy to help you with any questions about GRADY 3001 and advise you according to your needs. Please contact us at grady@agri-at.com.

Technologies for poultry breeding and husbandry

Agri Advanced Technologies GmbH (AAT) founded in 2015 is a subsidiary of the family holding EW GROUP, headquartered in Visbek, Germany. Our main field of activity is the development of specialized application technologies for poultry breeding and husbandry, for example machines for in ovo sex determination of layers, grading and vaccination devices for broiler breeders or technical solutions for feed and egg disinfection.

Our aim

Our specialized application technologies help customers to further improve animal welfare and health through automated solutions, while also performing efficient production processes.

Our global network

As part of a global network, we work closely with all stakeholders in the value chain, as well as in research. We regularly cooperate with external institutions such as universities, research service providers, but also agricultural organizations, producers, and commercial enterprises.

Solutions from one hand

Our solutions encompass the entire process of development, from the idea to the market-ready product. We implement theoretical knowledge gained through research into practical applications and provide a range of solutions for customers all over the world.

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