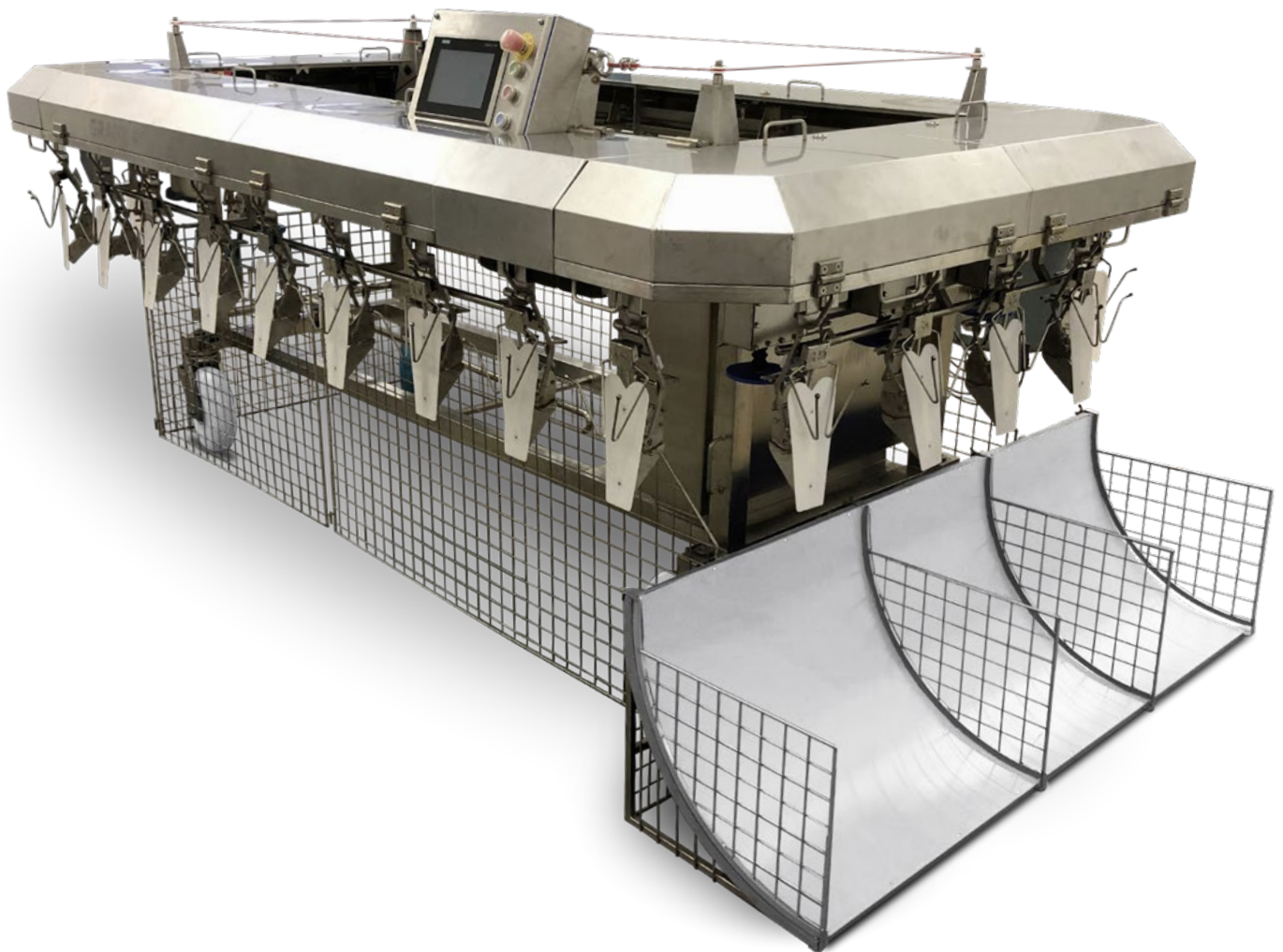


GRADY

3000 | 4000

Automatic grading devices
for broiler breeder rearing



GRADY



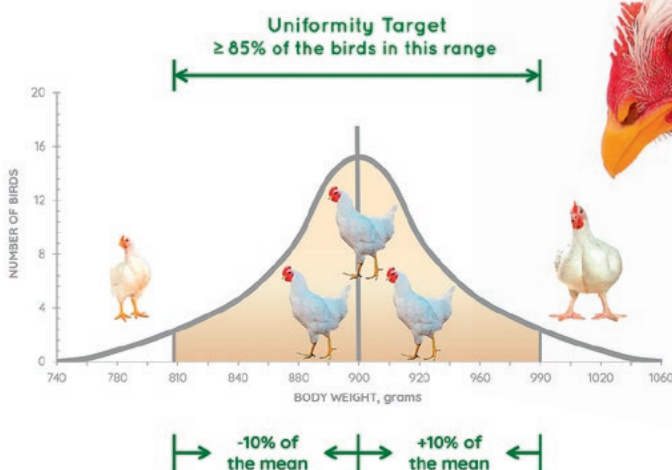
Maximum uniformity of the flock and a saving of up to 65 % working time ? Say Hello to Grady!

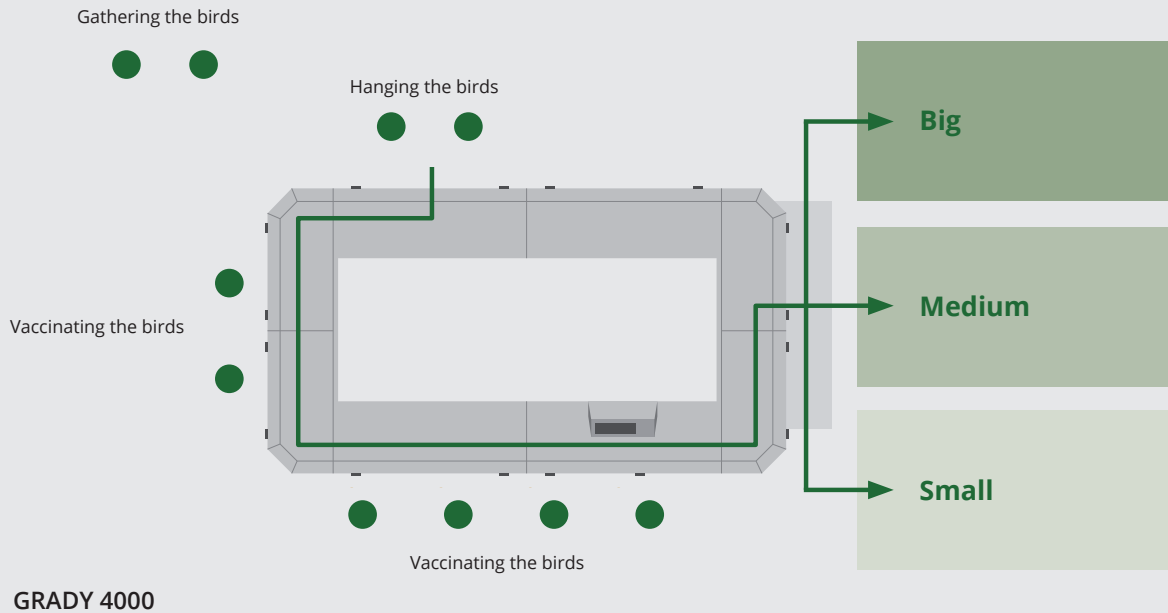
One of the most important indicators for the quality of broiler breeder rearing is the **uniformity of the flock**. This is ensured by an optimal flock management: adequate and needs-based feeding, a simultaneous start of lay and as a result, a higher laying performance level of the entire flock.

Grading broiler breeder flocks in different weight-based groups is a reliable method to achieve more uniformity in the flock and will result in a better overall performance.

With its patented technique, GRADY allows this labor-intensive process to be made more effective and efficient.

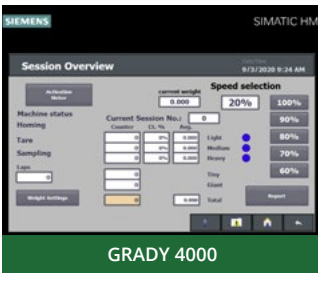
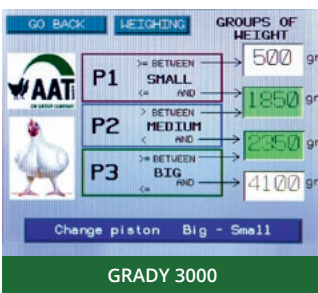
In addition, with GRADY it is possible that birds get vaccinated as part of the grading process. This saves time, improves job quality and reduces the number of occasions the birds have to be handled.





Setup and performance

It only takes 2 people to setup GRADY. The theoretical performance of GRADY 3000 is more than 3,300 birds per hour. Practically, a performance objective of 2000 birds per hour is easily achievable and this includes set-up and removal of the device and rounding up the birds. GRADY 4000 features a higher theoretical capacity of more than 4,000 birds per hour. Including set-up, cleaning and packing, a performance objective higher than 3,000 birds per hour is achievable.



Grading and 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 the device.

GRADY 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 are automatically calculated.





Grading and vaccinating in one single step!

With GRADY, grading is simplified and you are also able to combine it with the vaccination process.

With the special patented cradle supporting the birds at the base of their wings, the breasts of these birds are better presented to the person vaccinating. This allows fast, safe and accurate vaccinations in the breast.

Also, other forms of vaccine applications, e.g. above the eye or in the wing, are made easier with GRADY.

GRADY 3000

- 2-3 positions for vaccinators to supply different vaccines to the birds

GRADY 4000

- Up to 6 positions for vaccinators to supply different vaccines to the birds

Breast Vaccination



Wing Web Vaccination



Eyedrop Vaccination



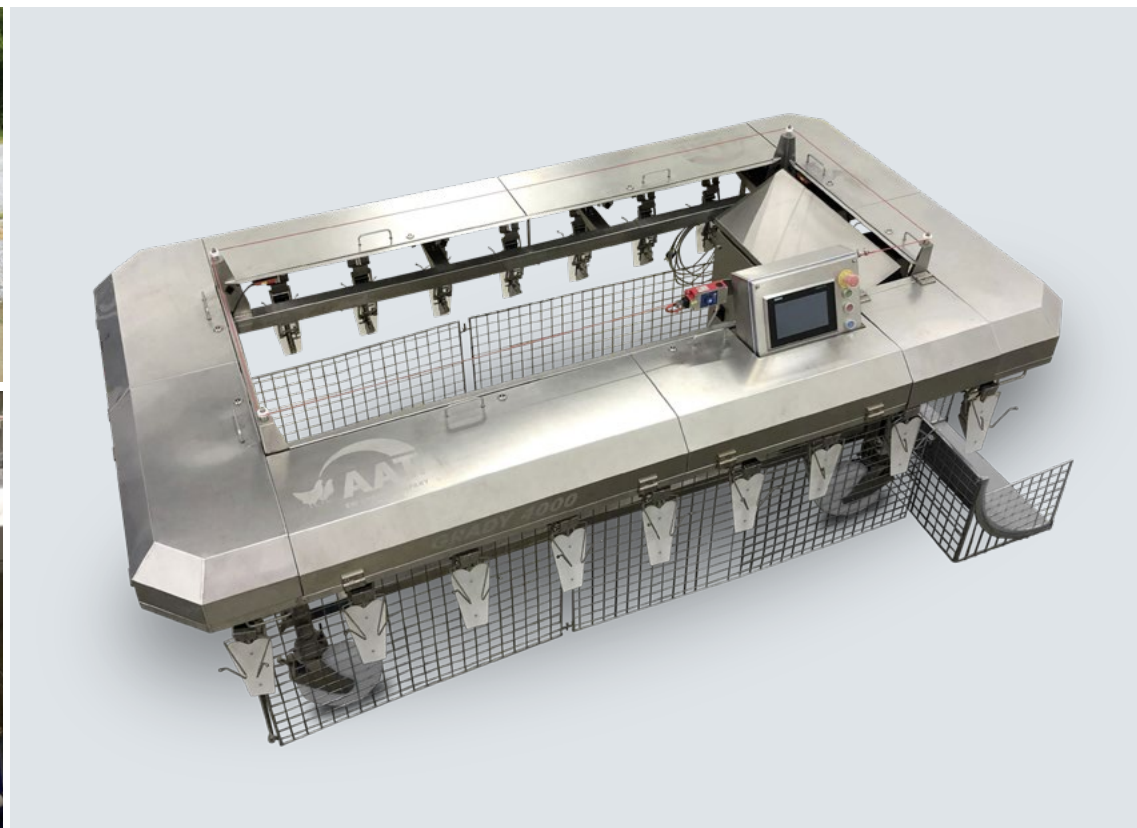


GRADY 3000

Advantages

GRADY 3000 is the perfect choice if you need support for **up to approximately 500,000 gradings** per year on a farm. The machine can be easily transported between individual stables. It is foldable and fits through regular doors (>85cm) and can be stored space-saving.

- ✓ Combination of vaccination and grading in one process
- ✓ Labor time reduction of up to 65 %
- ✓ Digitalization of the grading process and exact recording of every single bird's body weight
- ✓ Improved job quality through ergonomic advantages
- ✓ More biosecurity through less workforce



GRADY 4000

Advantages

GRADY 4000 is designed for heavy duty use. With it you can easily perform **up to 2 million gradings** per year and more. Thanks to its robust construction it is mobile and made to be transported in a trailer from farm to farm.

- ✓ All advantages of GRADY 3000
- ✓ Designed for daily use and the needs of service companies and major customers
- ✓ Grading and vaccinating of large houses with big bird numbers in one working day
- ✓ Machine is mobile for use on different farm locations
- ✓ Highest precision of the weighing unit, further improved compared to GRADY 3000
- ✓ More space for vaccination with 6 positions for vaccinators

Technical Overview of GRADY 3000 and GRADY 4000

	GRADY 3000	GRADY 4000
Dimensions	Length: 2675 mm Width: 1340 mm Height: 1430 mm Weight: 250 kg (551 lb) Wheels: Easy to move through farm house	Length: 3230 mm Width: 1790 mm Height: 1380 mm Weight: 400 kg (882 lb) Wheels: Easy to move through farm house
Machine frame	Foldable, dimension folded (l x w x h): 2675 mm x 880 mm x 1575 mm	Fixed frame
Material	Stainless steel AISI304, Aluminum AL2011, Plastic Polyamide, Polyethylene and Arnite	Stainless steel AISI304, Aluminum AL2011 Iglidur H1, Plastic Polyamide, Polyethylene
Electric requirements	110 / 230 volt and 50 Hz or 60 Hz adjustable on local requirements (fits to normal sockets) All electric devices are controlled by the switch box	
Motor	Stainless steel motor, IP67	Stainless steel, completely housed, encoder implemented in the motor, IP69 standard
Speed	3,300 birds per hour	> 4,400 birds per hour +33%
Software & Controller	Touch display, 7 inch USB slot for data transfer / grading protocol / uniformity calculation Presorting for group setting	Touch display, Siemens 9 inch Touch, IP69K USB slot for data transfer / grading protocol / uniformity calculation, optional wifi-control and remote-control, possibility to directly calculate the CV and uniformity on the machine Presorting for group setting
Cradles	22 pieces for birds from 300 up to 3000 grams	26 pieces, improved interlock system, for birds from 300 up to 3000 grams +20%
Using	3 LED lights for better lighting at different working positions (esp. for vaccination) Stop function when intervention	Stop function when intervention Hygienic design, easy to clean also with high pressure
Scope of application	suitable for grading up to 500,000 bird per year	suitable for grading up to 2,000,000 birds per year +400%

Agri Advanced Technologies: From research to practice.

Technologies for poultry breeding and husbandry

Agri Advanced Technologies GmbH (AAT) founded in 2015 is a subsidiary of the global company EW GROUP, headquartered in Visbek, Lower Saxony, 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 disinfection.

Knowledge through global network

We work closely with our sister companies in the EW GROUP, drawing on their knowledge from various fields. In addition, if necessary, we cooperate with external institutions such as universities or research service providers, as well as other business enterprises.

Solutions from one hand

Our solutions encompass the entire process of development, starting at scientific analysis through to the construction of the application technique until documentation and hand-book preparation.

We implement theoretical knowledge gained through research into practical applications and provide a range of solutions in the areas of poultry breeding and husbandry for customers all over the world.



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