

Neutral quality tests.
Practice-oriented test methods.
Attractive awards.

DLG Test Center Technology and Farm Inputs

Expertise in testing animal husbandry
and on-farm equipment

Excellence in animal husbandry equipment

Unbiased and independent, DLG is the authoritative testing institution when it comes to assessing the utility value, reliability and safety of facilities, equipment, inputs and feeds for animal husbandry. Our modern test and measuring methods as developed by our engineers are knowledge-based and practice-driven.

We offer the full range of testing and certification services in the area of on-farm equipment and animal husbandry. This includes animal buildings, ventilation and housing systems, feeding and milking equipment and also input products. We also conduct tests on emission levels in and from animal buildings. All our tests are practice-driven. A DLG quality mark indicates that the technical product has successfully passed a test at the lab or in situ.

What sets a DLG test apart is the fact that it applies standardised methods that reflect agricultural practices. This way, the results are realistic and comparable. Providing neutral and independent sources of information, they are appreciated by farmers who use the DLG-APPROVED seal, the DLG certification mark and the DLG quality seal as major guidelines for their purchase decisions, especially when planning a major investment.

Manufacturers appreciate the DLG tests because these provide valuable information on the product's further development potential.

DLG Test Center Technology and Farm Inputs

DLG has been testing and awarding certifications to agricultural machinery and farm inputs for over 130 years. In fact, we are one of the leading agricultural institutes to test and certify tractors, machines and utility vehicles for field and on-farm use, including farm inputs as well as forestry, municipal and garden equipment.

As such, the Test Center at Groß-Umstadt generates valid information for machine users helping them to make knowledgeable purchase decisions and good use of the product. Up to now, this information has been made available to the public in more than 4,000 test reports that give farmers clear guidance on tractors and implements, livestock housing equipment as well as hygiene udder hygiene products.

The test methods, test profiles and standards are developed by unbiased and independent test commissions and are based on the application of state-of-the-art test techniques and facilities.

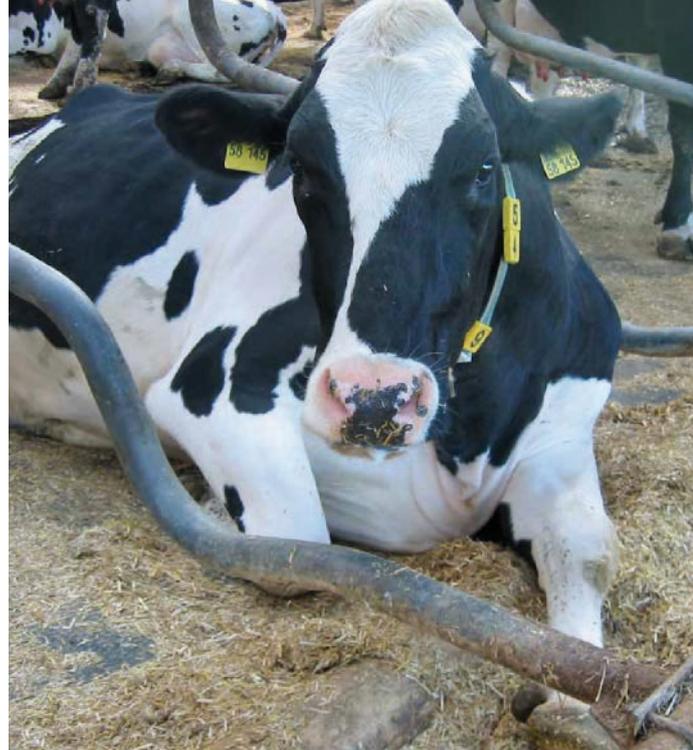
Apart from applying DLG standards in its tests, the DLG Test Center also offers extensive testing services as a part of test approval seeking procedures in compliance with relevant standards and regulations, but also with individual quality assessment programmes and customer-specific R&D requirements.



Focusing on animal welfare and environmental protection

All DLG test services are centred on animal welfare and environmental protection. These parameters and the parameter of product quality form the backbone of all test profiles in the individual test areas.

Animal welfare is a growing concern for society in general, and therefore animal welfare and its improvement is a top priority for farmers who seek to make existing and new housing systems more animal-friendly. Consequently, they have a demand for innovative housing concepts and equipment and herd management approaches.



According to the animal protection act, all animals have a right to housing and care that meets their behavioural, nutritional and general needs. Therefore, a key parameter of DLG animal housing equipment tests is to measure animal welfare.

Another key issue for livestock farmers is reducing emissions from animal buildings, both inside and outside. Multiple approaches are taken, ranging from the use of feed additives to the installation of complex exhaust systems. One of the major tasks of the DLG Test Center is measuring and assessing a new product for its efficacy in reducing emissions and its usability.

Extensive test services in the area of animal housing and equipment

The DLG tests on animal husbandry and farm inputs are centred on the needs of livestock farmers but also prioritise animal issues.

The dimension of livestock farming and environmental protection also involves measurements of air, water, energy and emission inputs and output.



Test frameworks set up by experts

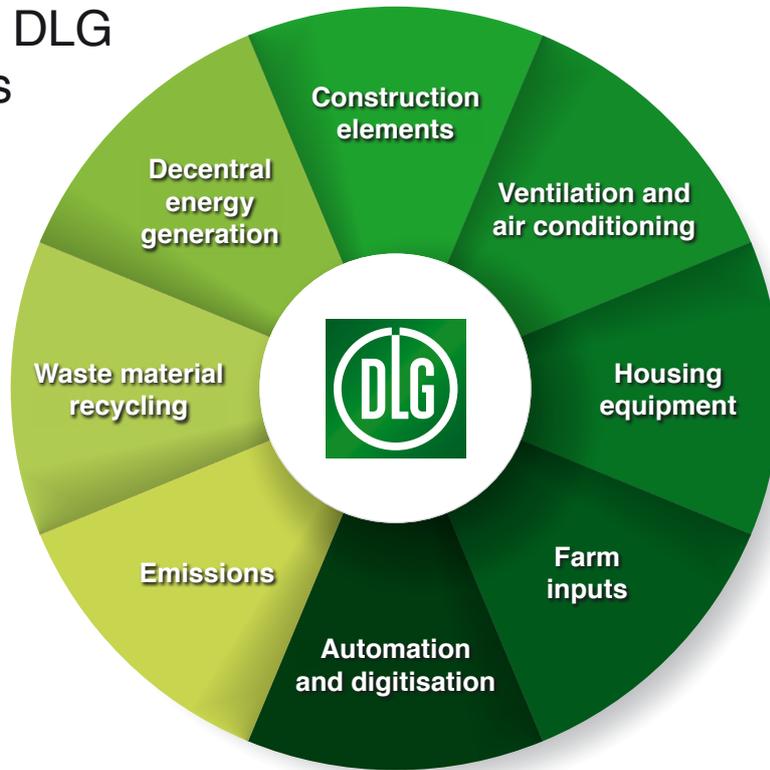
The test frameworks that are applied by the DLG Test Center are developed by independent test commissions that are made up of farmers, scientists, representatives from various associations and consultants as well as national and local governments plus the DLG test engineers. A test framework reflects the current state of art and applies objective and recognised methods that lead to reproducible results.



Internationally recognised

- ICAR: The only internationally recognised test lab for electronic and conventional animal identification devices.
- Switzerland: A DLG-BTS test report is a requirement for receiving funds within the BTS programme under the terms of the Direct Payment Ordinance.
- Netherlands: DLG certificates and test reports are referred to by the funding guidelines of the Maatlat Duurzame Veehouderij Programme.
- Austria: The DLG is an appointed test lab for conducting animal welfare tests as an integral part of approval tests for animal housing systems.

Overview of DLG test services



Construction elements

- Roofing materials
- Doors, gates
- Lighting systems

Ventilation and air conditioning

- Intake air conditioning systems
- Fans and intake air elements
- Wind breakers
- Heating and cooling technology

Housing equipment

(cattle, sheep, goats, pigs, poultry, horses)

- Flooring elements
- Pens and partitions
- Feeding equipment
- Grooming equipment
- Complete systems, e.g. mobile barns

Farm inputs

- Compound feeds and feed additives
- Udder hygiene agents
- Milking system detergents
- Animal housing disinfectants
- Claw care and hygiene products
- Bedding powders

Automation and digitisation

- Animal identification devices
- Sensors
- Robots (robotic feeders incl. semi-robotic systems in combination with diet mixers, slat cleaners and milking robots)
- Herd management software

Emissions

- Emission-reduction measures (integral and end-of-pipe systems)
- Further measures against VERA protocol, e.g. slurry pit covers, slurry separation or slurry/manure application

Waste material recycling

- Slurry storage
- Slurry processing, e.g. slurry separation and hygienisation

Decentral energy generation

- Biogas plants and plant components
- CHP
- Solar power systems and components

Overview of DLG awards

Our practice-driven DLG test methods are developed by independent test commissions. The methods applied reflect the latest scientific insights, in-field applications and modern techniques. They are derived from the expertise of an international network of experts from science and practice.



DLG APPROVED Full Test

The DLG APPROVED FULL TEST quality mark is awarded to agricultural products that have passed a DLG usability test on all aspects of the product. A DLG usability test is neutral and assesses all major features of a product that are relevant for the day-to-day use of the product. The quality mark will retain its validity for five years from the date of award.



DLG APPROVED quality mark for single, value-determining criteria

The DLG APPROVED quality mark for single, value-determining criteria is awarded to technical products that have passed a less comprehensive DLG usability test. The purpose of this test is to highlight a product's specific innovations and key features. The test may include criteria that are laid down in the DLG test framework on Full Tests or may focus on further product features and properties that confer a specific value to the product. The quality mark will retain its validity for five years from the date of award.



DLG certification mark and DLG quality mark

The test certification mark and the DLG quality mark tests are carried out on farm inputs such as compound feeds, silage additives, cleaning agents, disinfectants, udder and hoof hygiene products, animal housing disinfectants and lime fertilisers. These input tests cover the quality of the product and in some cases also the production process. All inputs that bear a DLG quality or certification mark are subject to continuous auditing. These audits are carried out at least once a year and ensure the quality of the product is maintained.



It is possible to have specific properties unique to the product or specific innovative features officially confirmed by the DLG certification mark or the DLG quality mark by submitting the product to further tests that go beyond the regular test framework. These extra tests are indicated on the quality seal.



R&D tests

DLG offers manufacturers confidential R&D testing of products that are still under development and provides advice on product compliance with relevant regulations and safety standards. We also conduct such tests to the manufacturers' requirements and to specific remit. DLG ensures that its tests and results comply with all applicable standards and regulations and that both the tests and its results are treated confidentially and are not published.



Innovative services

Our innovative marketing services offer customised communication packages which help you to market approved products through direct, print or social media. Please do not hesitate to ask for a customised media package.

Contact: Marketing@DLG.org

■ **Direct^{plus}: Direct mailing services**

- National and international campaigns
- Approximately 600,000 direct addresses from agricultural and related target groups

■ **Social Media^{plus}: Communication package for**

- Social networks
- Interaction with agriculture related user groups
- Posts and tweets on Facebook and Twitter

■ **Print^{plus}: High-quality print material**

- In several languages
- Special prints of test reports and articles

■ **Search^{plus}: Customised SEO/SEA campaign**

- Active advertising of specific product search terms
- Optimised web presence and increased search engine hits

■ **Video^{plus}:**

- Have a video produced that highlights individual quality tests
 - Film documentation of the tests
 - Explanation of test methods and processes
 - Interviews with the DLG test engineers
- Flexible content formats for YouTube channels
- Film snippets on the DLG social media channels

■ **Mafo^{plus}: Individual market research on product and concepts**

- Fully scalable sample
- Agriculture/agribusiness
- National and international campaigns

Find the latest test reports under www.DLG-test.de

DLG – testing excellence on farm machinery and inputs

DLG has been testing agricultural machinery and farm inputs for over 130 years. The DLG Test Center Technology and Farm Inputs is one of the leading testing organisations for the international agricultural industry.

- **Tractors, machines & utility vehicles**

Tractors, tractor components and accessories, electronic systems

- **Field equipment**

Arable and grassland equipment ranging from primary cultivation and drilling to fertiliser application and harvesting

- **Field equipment and on-farm equipment**

Livestock housing and equipment, emission protection, farmyard equipment

- **Inputs**

Feed, fertilizer limes, hygiene products, silage films, etc.

- **Forestry, municipal and garden equipment**

Power tools and mounted equipment

Further information can be obtained under www.DLG.org

Enquiries: Tech@DLG.org

DLG – the open network and professional voice

DLG aims to promote innovation in agriculture, agribusiness and the food sector around the world by the transfer of knowledge, quality and technology, and to make a sustained contribution to safeguarding global living standards.

Collaborating with experts around the world in an open international network, DLG develops future-proof solutions to meet the challenges faced by farming, agribusiness and the food sector. It organises internationally leading trade fairs and events in the specialist areas of crop production, animal husbandry, machinery and equipment for farming and forestry work, energy supply and food technology.

DLG's quality tests for food, agricultural equipment and farm inputs are world leaders. Through its professional work and its network of experts, DLG repeatedly lends new impetus to the farming world.

www.DLG.org



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