

Neutrally tested quality.
Practice-oriented test methods.
Attractive awards.



DLG tested arable and forage crop equipment

Our support for your development
Your competitive advantage with customers

DLG Test Center for Technology and Farm Inputs

When buying machines or farm inputs, farmers require hard facts and verified data to make a sound purchase decision. To provide such data DLG has been testing agricultural machinery and farm inputs for over 100 years. As such it rates among the most relevant test organisations in the world.

Based in Groß-Umstadt near Frankfurt in Germany, the DLG Test Center for Technology and Farm Inputs provides the farming world with a wealth of information that is essential for making well-founded purchase decisions.

The information has been made available to the public in more than 4,000 test reports that give farmers clear guidance. Our test methods and profiles reflect typical applications and the results obtained are impartial. Based on international standards the tests are carried out to and at state-of-the-art test techniques and facilities.

- Groß-Umstadt, situated about 40 km south-east of Frankfurt
- 38,000m² test site, more than 5,000 m² lab space, and more than 35 test stands



We test your products using state-of-the-art instruments and equipment

The DLG tests of arable and forage crop equipment cover the full range of machines used in cropping – from drills and planters to harvesters.

- Tillage equipment, drills and planters
- Fertilisers and spreaders
- Mowers, tedders, rakes and balers
- Forage harvesters, combine harvesters
- Irrigation systems

Our tests reflect agricultural practices and focus on all, some or just one of the following aspects, depending on customer wishes:

- Functionality, quality of work and efficiency
- Handling, ease of operation and servicing
- Tractor input in work
- Safety

Your products are tested both at the lab and in the field. The criteria to which these tests are carried out are specified to the needs and requirements of their users.

R & D testing

We support manufacturers during the development process by testing your machines for all applicable requirements and in all relevant field conditions until they are ready to go to market. Of course we treat the results strictly confidentially.

Having deep insights in the market and field applications, we submit your machines to the following tests:

- Longevity
- Benchmarking
- Functionality
- Individual measurements and tests
- Environmental simulation

In addition, we do conformity testing for compliance with regulations and safety standards, including the following:

- 2006/42/EC Machinery Directive
- Homologation in line with transport legislation (VO (EU) 167/2013)

DLG APPROVED

The DLG quality marks are awarded after the test results were assessed to specific criteria. These are defined by an independent test commission and in line with the specific test module.



This is a comprehensive usability test which is carried out to independent and recognised test criteria.

The methods that are applied throughout these tests enable the testers to make objective assessments of the reproducible results.

The **DLG Full Test** comprises the following **five modules**:

Module 1: Functionality and quality of work

Module 2: Handling, operation, service and maintenance

Module 3: Work safety

Module 4: Electronics (e.g. ISOBUS conformity and practical tests)

Module 5: Field performance

A machine that has passed all five test modules is eligible for the DLG APPROVED Full Test quality mark.

It is also possible, however, to subject a machine to only one test module or stagger the individual modules. A machine that passes the test in one such module is eligible for the DLG APPROVED quality mark on Individual Test Criteria.

It is intended to highlight specific features and innovations of the product.

The following is a short list of the test criteria that are applied in the various product groups.

DLG tests of arable and forage crop equipment

Tillage equipment

- Draft requirement
- Fuel consumption
- Straw incorporation and distribution across individual soil horizons
- Levelling
- Clod crushing and distribution of the soil aggregates



Drills

- Tractor input
- Fuel consumption
- Metering accuracy
- Distribution across and along rows
- Accuracy of depth placement
- Seed covering
- Field emergence



Planters

- Tractor input
- Fuel consumption
- Accuracy of seed placement: Target spacings, doubles and gaps
- Depth placement and embedding
- Crop spacing and field emergence
- Granule distribution across rows



DLG tests of arable and forage crop equipment

Mineral fertilizer spreader

- Tractor input
- Metering accuracy
- Distribution in the field and along boundaries

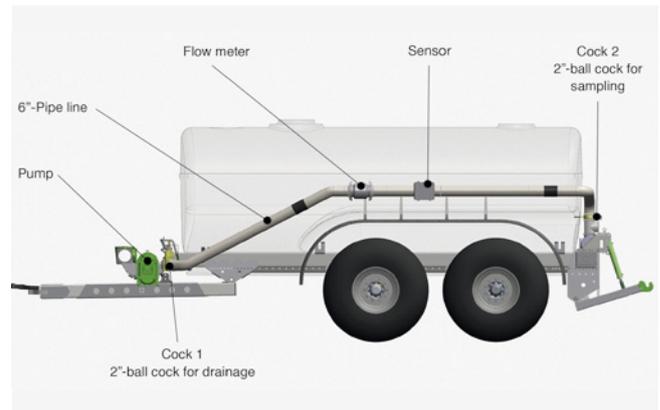
Slurry spreaders

We test slurry applicators and tankers.

- Tractor input
- Distribution across and along rows spreading various types of slurry and fermentation waste
- Determining the 'pull-off V'
- Application depth of slitters and injectors
- Slurry incorporation
- Substrate nutrients sensor accuracy

Manure spreaders

- Tractor input
- Transversal and longitudinal distribution with various types of manure
- Border spreading systems



DLG tests of arable and forage crop equipment

Mowers

- Tractor input
- Fuel consumption
- Cutting pattern
- Swathing/spreading the material
- Ground following ability
- Crop contamination
- Conditioning effect
- Handling properties and headland turns



Tedders and rakes

- Tractor input
- Fuel consumption
- Gathering and losses
- Crop contamination
- Transversal distribution
- Wilting
- Swath formation



Balers

- Tractor input
- Fuel consumption
- Cycle speeds
- Throughput
- Bale weights and mean densities
- Density distribution throughout the bale
- Film wrap and film economy



DLG tests of arable and forage crop equipment

Forage harvesters

- Fuel consumption
- Throughput
- Technical chop quality
- Nutrient sensor precision
- Header input requirements

Combine harvesters

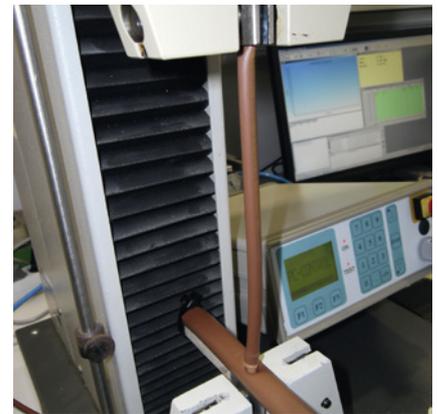
- Fuel consumption
- Throughput
- Grain quality
- Losses
- Distribution and quality of chopped straw



DLG tests of arable and forage crop equipment

Irrigation systems

- IP testing
- Pump output curves
- Flow rate accuracy and water distribution of soaker hoses and drip irrigation systems
- Fertigation pump accuracy
- Accuracy and durability of control units
- Valve functionality and endurance testing

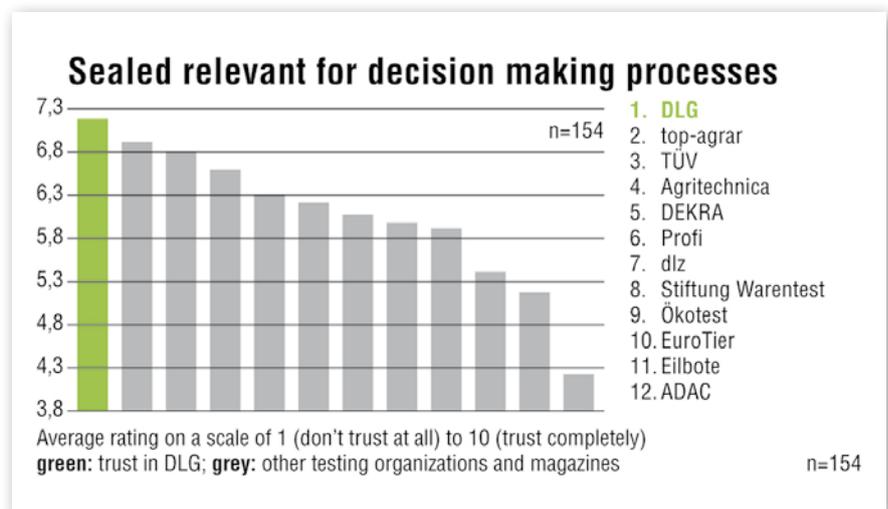


Communicating your quality marks

Communicating your quality marks in the DLG network

The quality marks that are awarded by the DLG Test Center for Technology and Farm Inputs stand for impartially and independently corroborated top product quality which farmers rely on when making investment decisions and which you can use to promote your products. With DLG-tested technology you get:

- meaningful expert opinions
- an attention-grabbing tool for your marketing mix
- a compact, exclusive and easy-to-read test report compiled by our test engineers
- a reliable source of information for farmers and their investment decisions



Benefit from your quality mark through strategic marketing of your test results

The DLG Test Reports are valuable sources of information for farmers who are making a purchase decision. With the publication of the test report you will benefit from the extensive strategic content marketing that accompanies any publication of a DLG Test Report

- On our website at www.DLG-Test.de
- Our database contains more than **4,000 test results** and the most recent test reports that receive more and more hits every year
- The DLG-Test Landwirtschaft trade journal presents features and the latest test results from the DLG Test Center for Technology and Farm Inputs four times per year. 120,000 copies of the journal are automatically sent to DLG members and decision makers
- The latest test reports and test exhibits are presented at the **leading international trade fairs** AGRITECHNICA, EuroTier, DLG-Feldtage, DLG-Waldtage, HORTITECHNICA and EnergyDecentral
- The certificates are awarded at a high-profile event and the press in attendance



Communicate directly with potential customers in Germany, Europe and across the globe

- Advertise in the sector-specific DLG newsletters with up **600,000 verified subscribers**
- The weekly **Members Newsletter** is a valuable source of information for 17,000 farmers, dealers, manufacturers and institutions
- **DLG trade events** provide access to potentially 30,000 members (mostly business minded farmers)
- The DLG press department communicates at national and international levels in publications that address readers in agriculture, the economy and the general public. In Germany alone, these communications are sent to more than **1,000 editorial offices and multipliers**
 - articles and news items in agricultural magazines
 - social effects as information on the test reports is shared on Twitter, Facebook and YouTube channels

Innovative service

Direct, Print or Social Media – with our innovative marketing media we provide you with individual communication packages for successful marketing of your products. We would be pleased to make you an offer for an individual media package.



Direct^{plus}

Direct-Mailing offers

- National and international
- Direct contact with up to around 600,000 addresses from the fields of agriculture and related target groups

Social Media^{plus}

Media package for

- Social networks
- Interaction with user groups from agricultural sector
- Social-Media presentations (Facebook, Twitter)

Print^{plus}

High-grade print products

- in German and other languages
- offprints of test reports, technical articles

Search^{plus}

Individual SEO/SEA campaign

- Active promotion of product-specific search terms
- Optimised web presence and enhanced ranking by search engines

Video^{plus}

Video productions covering individual quality tests

- Filmed documentation of the tests
- Test methodology, test processes
- Interviews with DLG test engineers

Flexible Content-Formats for the customer's YouTube channels

Presentation of film snippets via DLG's Social-Media channel

MarketResearch^{plus}

Individual market research on products and concepts

- Sample can be scaled freely
- Agriculture/Agribusiness
- National and international

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By transferring knowledge, quality and technology, DLG promotes progress in agriculture, the agribusiness and the food sector worldwide and contributes to sustainably securing global livelihoods. As an open and international forum, DLG together with experts from all round the world develops forward-looking solutions for the challenges facing the industry. It organises internationally leading trade fairs and events in the areas of competence: crop production, animal husbandry, agricultural and forestry machinery, energy supply and food technology. DLG's quality tests for foods, agricultural machinery and farm inputs make it an international leader. DLG continues to inspire and shape the farming world by means of our specialist work and network of experts.

Information: [www. DLG.org](http://www.DLG.org)



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