

**June 8th to 10th 2021**

**Brockhof estate in Erwitte/Lippstadt (NRW)**

**Information  
for the machine demonstrations**

*Status 23.10.2021*

<b>Table of contents</b>	<b>Page</b>
1. Preliminary remarks.....	2
2. Concept for the machine demonstrations at DLG-Feldtage 2021 .....	3
3. Machine demonstration rules.....	4
4. Explanations concerning the machine demonstration topics .....	5
5. Safety concept of the machine demonstrations: .....	8
6. Contact persons at DLG Service GmbH.....	9
7. DLG-Feldtage 2021 site plan.....	10

# **1. Preliminary remarks**

- 1.1. These explanations are intended to make your participation in the demonstrations easier and to provide you with the information necessary for registering for participation in the machine demonstrations using the exhibitor portal. Please read and observe the points listed in the following! If you nevertheless have any questions, please contact the persons listed on page 9.
- 1.2. Only **machines / implements registered for the machine demonstrations** are entitled to participate. Implements that have not been registered but which are nevertheless parked on the DLG-Feldtage site will be chargeably removed by the organiser.
- 1.3. A maximum total of 62 tractor-trailer combinations can be registered for seven topics at DLG-Feldtage 2021. For each of the seven topics, there is a **slot** which describes the number of machines participating per topic. If necessary, shifts between the slots are possible by the organiser.
- 1.4. The machine demonstrations will consist of both individual exhibitor demonstrations directly on **demonstration blocks** behind the communication areas and demonstrations on three **DLG courses**.
- 1.5. **Topic areas machinery demonstrations DLG-Feldtage 2021:**
  1. Flat soil cultivation
  2. Efficiency of tractors
  3. Plant protection sprayers
  4. Mineral fertilizer spreaders
  5. Sensor technology for precision farming
  6. Mechanical weed control
  7. Automated steering on hoeing machines

## 2. Concept for the machine demonstrations at DLG-Feldtage 2021

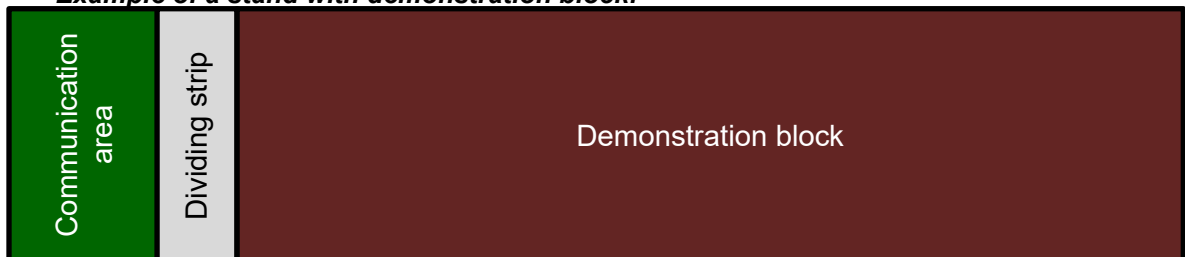
### 2.1. The objectives of the machine demonstration concept are:

- Increasing attendance efficiency through precisely timed demonstrations on the DLG course.
- Increased time for individual advice at the stand by enabling the machines to return to the stand as soon as possible after the demonstration on the DLG course.
- Increasing weather stability on visitor routes.
- Better visitor distribution over the entire site.
- Own structuring of machine operation in the area of the demonstration blocks.
- Individual customer advice possible at the machine throughout the day.

### 2.2. The demonstrations on the demonstration blocks behind the communication areas will encompass the following topics:

- Power efficiency for tractors
- Flat stubble tillage

#### *Example of a stand with demonstration block:*



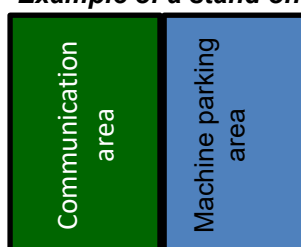
#### **Important information concerning the demonstrations on demonstration blocks:**

- The stand consists of a communication area, dividing strip and demonstration block.
- Demonstration block dimensions 24 m x approx. 80 m (incl. 1.5 m border on each side).
- The demonstrated machine remains in 'its' block.
- Each demonstration block will be delimited from the neighbouring demonstration block and demarked by a ploughed furrow.
- Apart from the lunch break from 12:30 p.m. – 13:30 p.m., demonstrations are possible throughout the entire day.
- There will be no DLG commentary during the demonstrations on demonstration blocks. Commentaries for visitor groups by the exhibitor are only possible using headsets (not a PA system!); the **headsets** must be supplied by the exhibitor.
- No additional advertising media (beach flags, banners, etc.) are permitted on the demonstration blocks.

### 2.3. The commented demonstrations on the three DLG courses encompass the following topics:

- Technology for mechanical weed regulation & implement steering on attached hoeing implements => DLG course 1
- Practical comparison of crop protection sprayers => DLG course 2
- Practical comparison of mineral fertiliser spreaders & N sensor technology for precision farming => DLG course 3

#### *Example of a stand on participation in the DLG courses:*



#### Important information concerning the demonstrations on the DLG courses:

- The stand consists of the communication area and the machine parking area.
- The demonstrations will be commented on by experts organised by DLG.
- Machines will be demonstrated on the DLG course; outside of the demonstration times, the machines will be stood in the free parking area behind the communication area.

### 3. Machine demonstration rules

- 3.1. Only machines and implements that have been properly registered, that meet the agreed technical specifications and that match the topics of the machine demonstrations may be exhibited. If a machine to be demonstrated cannot take part in the demonstration due to technical or other reasons, it must be removed from the event area!
- 3.2. For each topic, the participants will be arranged in the alphabetical sequence of the exhibitors. On participation in several demonstrations, the exhibitor will decide on its positioning in coordination with DLG Service GmbH.
- 3.3. The person responsible for your safety on site must be designated to us in writing on registration. The person responsible may be changed up to the start of the event, but DLG must be notified of this in writing.
- 3.4. Demonstrations can be carried out throughout the entire day in the area of individual demonstrations on **demonstration blocks**. However, adherence to the lunch break from 12:30 p.m. to 13:30 p.m. is required. These individual demonstrations will not be commented. If no demonstration is underway, the machine is parked on the demonstration block.
- 3.5. Commented demonstrations on DLG courses will take place twice a day on the topics of practical comparison of crop protection sprayers, practical comparison of mineral fertiliser spreaders & sensors and mechanical weed regulation & implement steering on attached hoeing implements. Demonstrations on the DLG courses can only take place under the control of DLG during the specified machine demonstration times. DLG will provide safety staff to ensure safety during the demonstrations on the DLG courses.
- 3.6. Partnerships are possible for the following three topics:

➤ Power efficiency for tractors	=>	Flat stubble tillage
➤ N sensor technology for precision farming	=>	Practical comparison of mineral fertiliser spreaders
➤ Implement steering on attached hoeing implements	=>	Technology for mechanical weed regulation

Power efficiency for tractors topic participants can, and N sensor technology and implement steering topic participants must, look for a partner to equip them with this technology. The partners will be positioned next to one another in the site layout planning.
- 3.7. DLG will not take out any liability, fire, theft or other insurance for the registered machines. The costs of transporting the machines there and back will not be covered by DLG. DLG will accept no liability for the loss of machines, equipment, structures or other material assets brought in by the exhibitor. Securing the machines is the responsibility of the exhibitors.
- 3.8. Advertising measures may not hinder the smooth running of the demonstrations under any circumstances.
- 3.9. Exhibiting machines in the communication area is not permitted; at most, machine parts or models may be displayed.

## **4. Explanations concerning the machine demonstration topics**

Machines can be demonstrated for the following **topic areas**:

### **4.1. Demonstrations on demonstration blocks**

#### **4.1.1 Power efficiency for tractors**

- A maximum of one tractor per brand may be demonstrated.
- Implements with a working width of up to 6 m without intervention into the soil are possible.
- Effective measures for increasing the efficiency of the tractor during operation on the field or on the road should be shown (e.g. reduction of slip, precise bout tracking, acceleration of the turning process, ballasting, reduced set-up times, variable tillage depths using GPS overlay...up to and including fleet management).
- A team (partnership) can be formed with a manufacturer from the 'Flat stubble tillage' topic. Only one partnership with a manufacturer is possible.
- If a tractor manufacturer forms a partnership with one manufacturer, it can use one or two tractors in flat stubble tillage in addition to its tractor in the demonstration block.
- The demonstration block measures 24 m x 80 m.
- If desired, your demonstration block can be cultivated (5-10 cm) or left with stubble.
- **Slot:** 10 different brands or manufacturers

#### **4.1.2 'Flat stubble tillage'**

Flat soil cultivation after whole crop silage (=cereal stubble):

- a) Cultivator
- b) (Compact) disc harrows
- c) Flat cultivator
- d) Stubble plough
- e) Others ...
- A maximum of two implements per brand may be demonstrated, working width 3 m to 6 m
- Working depth at least 3 cm; max. 10 cm
- A partnership (team) can be formed with manufacturers from the 'Power efficiency for tractors' topic.
- You will find cereal stubble on your demonstration block (24 m x 80 m). An additional demonstration block (24 m x 80 m) can also be booked for each registered implement.
- Implement adjustment on-site is the responsibility of the exhibitor. A small, free area for checking the implement / machine settings is available for each implement.
- **Slot:** 16 implements for flat stubble tillage

### **4.2. Demonstrations on DLG courses**

#### **4.2.1 Mechanical weed regulation & implement steering on attached hoeing implements (DLG course 1)**

With the procedures:

- a) Hoeing in maize or beet
- b) Harrowing in rye
- Each manufacturer of hoeing machines / harrows can register and demonstrate one machine per procedure.
- On registration, the exhibitor must decide which procedure it wishes to demonstrate.
- Harrow working width: 6 to 9 m; hauled
- Hoe working width: 2.7 to 5.4 m; 6- and 12-row
- Implement adjustment on-site is the responsibility of the exhibitor. A small, free area for checking the implement / machine settings is available for each implement.
- The course for the harrows is cultivated with winter rye (approx. BBCH 25)
- The course for the hoeing machines is cultivated with maize or beet.
- Manufacturers of steering systems (camera-controlled; GPS, etc.) for chippers can demonstrate their technical solution in practice. For this purpose, they choose a partner from the participating chipper manufacturers with a machine their steering system is installed on. Only steering systems registered for the demonstration will be explained by the commentator during the two daily demonstration dates. The communication area of the steering system manufacturer is located next to the communication area of the manufacturer of the hoeing technology.
- **Slot:** 14 machines: 8 x hoes, 6 x harrows; maximum 8 steering systems

#### **4.2.2 Practical comparison of crop protection sprayers (DLG course 2)**

With the procedures:

- a) Hauled sprayers
  - b) Self-propelled sprayers
- 
- A maximum of two sprayers per brand may be demonstrated.
  - Working width 24 m to a maximum of 36 m
  - On registration, the exhibitor must decide which procedure it wishes to demonstrate. One implement per exhibitor and procedure can be demonstrated.
  - **The track width of the tractor-trailer combinations and self-propelled vehicles must be at least 2.00 m and may be a maximum of 2.25 m.**
  - The field sprayers should be filled 2/3; water will be provided by DLG.
  - The demonstration will be carried out on the ISO-based DLG obstacle course – in deviation, the obstacle height during furrow driving will be 160 mm. The entire course can be driven over with automatic linkage guidance.
  - **Slot:** 16 crop protection sprayers

#### **4.2.3 Practical comparison of mineral fertiliser spreaders & N sensors for precision farming (DLG course 3)**

- One spreader per brand or one sensor per brand is permitted.
- On registration, the exhibitor must decide which topic it wishes to demonstrate.
- 1st round: 'edge and water boundary spreading' on cereal stubble with visualisation of the spreading quality achieved on an LED wall.
- 2nd round: sensor-controlled fertilisation on winter wheat in different N supply stages.
- Sensor manufacturers and fertiliser spreader manufacturers form teams. If team formation has not proved possible, spreaders can also take part in the demonstration without a sensor – only the 'edge and water boundary spreading' (outward journey) passage is then commented.
- During the edge and water boundary spreading (outward journey) demonstration, the working width should be set to 24 m. DLG will provide AKRA Kombi from Karner as the fertiliser (or a similar fertiliser).
- For the 2nd round, the sensor manufacturers are required to install a clearly visible display on the cab roof on which the quantity of nitrogen registered by the sensor or recommended by the overlay for the sub-area is displayed in kg N/ha.
- **Slot:** 6 fertiliser spreaders and a maximum of 6 N sensors

#### 4.3. Overview of the planned schedule (valid on all days of the exhibition!)

<b>Machine demonstrations in the morning:</b>	
9:00 a.m. to 12:30 p.m.	Demonstrations on <b>demonstration blocks:</b> Power efficiency for tractors Flat stubble tillage
10:00 a.m. to 10:50 a.m.	<b>DLG course 1:</b> Mechanical weed regulation & implement steering on attached hoeing implements (commentated)
11:00 a.m. to 11:45 a.m.	<b>DLG course 2:</b> Practical comparison of crop protection sprayers (commentated)
12:00 noon to 12:30 p.m.	<b>DLG course 3:</b> Practical comparison of mineral fertiliser spreaders & N sensors for precision farming (commentated)
12:30 p.m. to 13:30 p.m.	<i>Lunch break - no machine operation</i>
<b>Machine demonstrations in the afternoon:</b>	
13:30 p.m. to 18:00 p.m.	Demonstrations on <b>demonstration blocks:</b> Power efficiency for tractors Flat stubble tillage
14:00 p.m. to 14:30 p.m.	<b>DLG course 3:</b> Practical comparison of mineral fertiliser spreaders & N sensors for precision farming (commentated)
15:00 p.m. to 15:45 p.m.	<b>DLG course 2:</b> Practical comparison of crop protection sprayers (commentated)
14:00 p.m. to 16:50 p.m.	<b>DLG course 1:</b> Mechanical weed regulation & implement steering on attached hoeing implements (commentated)

#### 4.4. Date information:

- Registrations for the machine demonstrations are possible online until **November 29th 2020** in the exhibitor portal. If the maximum registration numbers specified for the individual demonstration topics (= slots) are reached by the registration deadline, a waiting list according to receipt of registration will be established. If a registered participant cancels, its place will be taken by the first prospect on the waiting list.
- During AGRITECHNICA 2019, DLG will be offering appointments for the exhibitors of the following demonstration topics to **detail their demonstrations**. The meetings will take place in the **Convention Center (CC)** at the trade fair grounds:
  - ✓ Manufacturers of mechanical weed regulation  
& implement steering on attached hoeing implements  
**Wednesday, 13.11.2019; from 15:00 p.m. to 17:00 p.m. in rooms 105/106**
  - ✓ Manufacturers of crop protection sprayers  
**Thursday, 14.11.2019; from 16:00 p.m. to 18:00 p.m. in rooms 105/106**
  - ✓ Manufacturers of mineral fertiliser spreaders and sensor technology  
**Friday, 15.11.2019; from 9:00 a.m. to 11:00 a.m. in room 104**
  - ✓ Manufacturers of tractors (power efficiency) & flat stubble tillage manufacturers  
**Friday, 15.11.2019; from 11:00 a.m. to 13:00 p.m. in room 104**

- During the demonstration on the three DLG courses, a completed data sheet for each registered machine / implement will be required as the basis for the commentary – you will receive this along with your stand confirmation. Please return this **by 28.05.2021**.
- Along with the **stand confirmation**, the participants will be requested to provide further details and wishes (poss. tractor and driver requirements, details of the machine, etc.).
- **Set-up and removal / briefing**
  - The machines must be delivered to the demonstration site by 12:00 noon on Saturday, June 5th 2021.  
**Delivery address:**  
DLG-Feldtage  
c/o Gutsverwaltung Brockhof  
Brockhof 1, 59597 Erwitte, Germany
  - Removal must take place during the removal period from **June 10th 2021, 18:30 p.m.** to **June 11th 2021, 18.00 p.m.**
  - The welcoming address, briefing and the **safety briefing** for all manufacturers taking part in the demonstration, their safety staff and the tractor-trailer combination drivers will take place at the 'DLG machine demonstration information stand' on Monday, **June 7th 2021 at 13:00 p.m.** The commentators will then explain the five demonstration topics on the three courses and the details of the demonstration procedure. The adjustment areas and demonstration areas for checking the implement / machine settings can only be released once the briefing has been completed – weather permitting.
  - During the three days of the event, a discussion of current issues will take place **each day at 8:30 a.m.** with all of the involved manufacturers at the 'DLG machine demonstration information stand'. If there is an acute need, a further meeting can additionally be convened at short notice at **13:00 p.m.**

## **5. Safety concept of the machine demonstrations:**

### **5.1 Fundamental safety principle**

All machine demonstrations in the context of DLG-Feldtage must be carried out so that any risk to persons and material assets can be ruled out with virtual certainty.

All exhibitors that demonstrate machines on their demonstration blocks are primarily responsible for the safety of visitors in their areas. They are responsible for the conscientious planning and implementation of, and adherence to, all measures pertaining to safety. The exhibitor bears this responsibility for public safety for the sequence and the execution of its machine demonstration. Adherence to the relevant accident prevention regulations is mandatory. All of the machines that are used must comply with the fundamental directives and laws and must bear a CE marking.

The organiser reserves the right to interrupt or prohibit a machine demonstration at any time if safety regulations are not adhered to or if the situation necessitates this.

### **5.2 Insurance obligation**

The tractors or self-propelled vehicles must either be registered as usual or insured via the exhibitor liability insurance.



### 5.3 Responsibilities

To organise the machine demonstrations, DLG Service GmbH will appoint a person who is present on site throughout the entire duration of the event and who will act as a contact person for the exhibitors in matters pertaining to safety.

The exhibitor will name a 'person responsible' for safety to DLG Service GmbH, irrespective of whether the exhibitor conducts a demonstration on a DLG course or on its own demonstration block. A demonstration is not possible without this nomination and without this person being present. This 'person responsible' for the safety of the machine demonstration must be on site and contactable throughout the entire duration of the event, and must ensure adherence to the fundamental safety principles (as per number 5.1).

For the demonstrations on demonstration blocks, the exhibitor will ensure, by the start of the event at the latest, that two persons secure the demonstrated tractor-trailer combination as escorts during the individual demonstrations on the demonstration block. The escorts will be equipped with warning vests and a signal horn, and must ensure that no visitors are stood in the danger zone or on the machine. A person wearing a seat belt may travel on the co-driver seat of the tractor – getting on and off while the vehicle is in operation is prohibited! The escorts must be briefed on their tasks by the exhibitor's designated 'responsible person'.

The escorts can also be obtained from the following service provider: Niedersächsische Wach- und Schließgesellschaft, responsible: Mr Frank Bruno; tel.: 0511 / 89-20232; mail: frank.bruno@nwsg.de. The safety briefing for this staff is also the responsibility of the exhibitor's 'responsible person'. DLG Service GmbH will provide the escorts for the demonstrations on the three DLG courses.

### 5.4 Drivers

All drivers of demonstration tractor-trailer combinations must be in possession of the necessary driving licence and ensure cautious and safety-conscious behaviour. Each driver must be familiarised with the operation of the demonstration tractor-trailer combination by the exhibitor. The zero alcohol rule applies to all drivers during the event. All drivers will be registered for the specific tractor-trailer combination and will be provided with a thorough safety briefing on site by the organiser.

### 5.5 Special safety requirements

Speed may not pose a potential hazard to the visitors. Journeys from the machine parking area to the course must be undertaken at walking pace. The demonstration block is visually delimited by a ploughed furrow so that visitors are aware that they are entering the demonstration area.

The exhibitor must implement specific safety measures to counteract the special risks, particularly when turning the tractor-trailer combinations, during fertiliser spreading, on machines with extensively protruding components or in the case of dust development.

## 6. Contact persons at DLG Service GmbH

Phone: +49 (0)69 / 247 88 -

Area of responsibility	Name	Telephone extension	E-mail
Project management	Andreas Steul Project office	262 369	<a href="mailto:a.steul@dlg.org">a.steul@dlg.org</a> <a href="mailto:feldtage@dlg.org">feldtage@dlg.org</a>
<u>Machine demonstrations</u>	Roland Hörner  Dr Jobst von Schaaffhausen	337 Mob.: 0175/7226515 329 Mob.: 0160/90638369	<a href="mailto:r.hoerner@dlg.org">r.hoerner@dlg.org</a>  <a href="mailto:j.schaaffhausen@dlg.org">j.schaaffhausen@dlg.org</a>

## **7. DLG-Feldtage 2021 site plan (status October 2020)**

