DLG • Eschborner Landstraße 122 • 60489 Frankfurt/Main Germany • press_agrar@dlg.org • **www.dlg.org**

Frankfurt am Main, Germany
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DLG APPROVED quality mark awarded to Brantner TA 24078 Power-Spread pro universal spreader with CSP2-2 spreading unit

DLG APPROVED in individual criteria – Excellent and good transverse distribution quality and good longitudinal distribution of solid manure – Continuously adjustable floor conveyor speed and gate opening height

The Brantner TA 24078 Power-Spread pro universal spreader with CSP2-2 spreading unit, manufactured by Hans Brantner & Sohn Fahrzeugbaugesellschaft mbH (Laa an der Thaya, Austria), has been awarded the DLG APPROVED quality mark for the partial test “Distribution quality of solid manure”. The certification is valid for five years. The test was conducted by DLG TestService GmbH at the DLG Test Center for Technology and Farm Inputs in Groß-Umstadt, Germany, based on the DLG test framework for spreaders for organic solid matter and the DIN EN 13080 standard (“Solid manure spreaders – Environmental protection – Requirements and test methods”).

Summary of results

The Brantner spreader fully met the test criteria defined in the DLG test framework. The equipment demonstrated excellent transverse distribution quality at a working width of 14 meters and good quality at 15 meters, with an application rate of 10 t/ha. At 30 t/ha and 11 meters working width, transverse distribution was again rated excellent, and good at 25 meters. Longitudinal distribution at both 10 and 30 t/ha was consistently rated good (+) across all tested working widths.

DLG test framework: Spreaders for organic solid matter

The test was carried out in August 2025 on a harvested wheat field in Lower Austria. The Brantner TA 24078 Power-Spread pro was equipped with a CSP2-2 twin-disc spreading unit featuring two horizontal beaters. Distribution quality was assessed at application rates of 10 and

30 t/ha using cattle manure with a dry matter content of 19.4% and a bulk density of 726 kg/m³. Both transverse and longitudinal distribution were measured; no other criteria were evaluated.

The test was based on the DLG test framework for spreaders for organic solid matter and the DIN EN 13080 standard (“Solid manure spreaders – Environmental protection – Requirements and test methods”). To assess transverse distribution, collection trays (50 cm x 50 cm x 10 cm) were placed edge-to-edge across the test area, perpendicular to the direction of travel. The tractor with the spreader under test then passed over the measurement section. The material collected in the trays was weighed and analyzed to determine the base spreading pattern. The distribution quality was evaluated using the coefficient of variation (CV). The CV for transverse distribution indicates how evenly the material is spread across the working width, taking into account overlap from subsequent passes. The progression of CV values shows when the permissible threshold is met and identifies the range of optimal working widths (i.e. those with the lowest CV).

To determine longitudinal distribution, the mass flow was measured by continuously recording the weight of the load while the spreader was stationary and unloading a full load. From this data, several key performance indicators were calculated: the characteristic application rate during unloading, the uniformity of distribution within the defined tolerance zone (i.e. the percentage of unloading time during which the application rate remained within the permissible range), the optimal overlap for subsequent passes, and the coefficient of variation (CV) at optimal overlap.

Further product information

The BRANTNER TA 24078 POWER-SPREAD pro universal spreader with CSP2-2 spreading unit is equipped with two spreading discs, each with a diameter of 1,000 mm and six spreading vanes with adjustable spreading angles, as well as two horizontal beaters, each with a diameter of 650 mm. The drive is powered via the PTO shaft (maximum 1,000 rpm). The loading volume is approximately 25 m³. The chassis features a hydraulically suspended tandem axle and a hydraulically suspended drawbar with a K80 hitch. The spreader is also equipped with a dual-circuit air brake system with automatic load-dependent braking force control (ALB). Required hydraulic connections include three load-sensing ports, a hydropneumatically suspended drawbar, and an electrohydraulic steering axle, as well as two single-acting hydraulic lines. An ISOBUS connector, a 7-pin lighting connector, and a 3-pin connector for controlling the electrohydraulic forced steering are also required.

Product information: https://www.hb-brantner.at/de/produkte/streutechnik/bw-psp-3.html

The complete report available here (currently in German): https://www.dlg.org/tests/landtechnik-betriebsmittel/pruefberichte/test-hans-brantner-sohn-universalstreuer-ta-24078-power-spread-pro.

Contact person: Georg Horst Schuchmann,
Tel.: +49 69 24788-627, G.Schuchmann@DLG.org.

Media contact
Malene Conlong
+49 69 24788-213
m.conlong@dlg.org

About DLG

With more than 31,000 members, DLG is a politically independent and non-profit organisation. DLG draws on an international network of some 3,000 food and agricultural experts. DLG operates with subsidiaries in 10 countries and also organizes over 30 regional agricultural and livestock exhibitions worldwide. DLG's leading international exhibitions, EuroTier for livestock farming and Agritechnica for agricultural machinery, which are held every two years in Hanover, Germany, provide international impetus for the local trade fairs. Headquartered in Frankfurt, Germany, DLG conducts practical trials and tests to keep its members informed of the latest developments. DLG's sites include DLG's International Crop Production Centre, a 600-hectare test site in Bernburg-Strenzfeld, Germany and the DLG Test Centre, Europe's largest agricultural machinery test centre for Technology and Farm Inputs, located in Gross-Umstadt, Germany. DLG bridges the gap between theory and practice, as evidenced by more than 40 working groups of farmers, academics, agricultural equipment companies and organisations that continually compare advances in knowledge in specific areas such as irrigation and precision farming.
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