

## NEW SAPHIR PRODUCTS FOR AGRITECHNICA

Innovative new products in all areas



### The DLG award-winning world first for post-harvest management. SAPHIR - We create solutions

The international innovation panel met and reviewed the 251 applications submitted for the AGRITECHNICA 2023 Innovation Award. Following their deliberations, the pioneering GrindStar® system was awarded the silver medal. The GrindStar® was designed for full-surface, ultra-flat stubble cultivation (post-harvest management). It consists of rotating tools that slide flat over the ground, can cut and shred at the same time, and are arranged on two rows of rotors which are driven solely by the forward speed. The front rotors rotate in the opposite direction to the rear rotors. This arrangement and the symmetrical design of the rotors result in a full-surface working pattern. Uniformly flat processing is achieved by the parallelogram-guided, spring-loaded suspension of the 75 cm rotors, the unique blade tools and the specially developed pressure relief system in the rotor. This results in significantly improved height guidance and ground adaptation during stubble cultivation compared to existing systems. A corresponding patent grant confirms the technical progress and novel nature of the system. This new development works faster (12 - 18 km/h) and significantly reduces fuel consumption thanks to the low tractive power requirement of just 20 hp per metre of working width. The GrindStar® does not require any complex and expensive electronics or drive technology that is susceptible to wear. Thanks to the special technical design, ultra-flat processing is carried out at a working depth of 0 to 2 cm without the operator having to carry out time-consuming checks and adjustments. The GrindStar® system is particularly easy to pull, boasts low process costs, and encourages volunteer grain, volunteer rape and weed seeds to germinate without burying the seeds. This reduces herbicide use and prevents resistance. Harvest residues such as grain, rape and maize stubble are shredded, frayed and deposited evenly. This results in pronounced surface rotting, and pests such as slugs and corn borers are deprived of a place to hide.



### SAPHIR - new harrow for professional use

The SAPHIR Perfekt KS contour harrow is a highly professional implement for grassland maintenance that is initially available with a working width of 6 m. The depth of the parallelogram-guided, four-row tine arrangements is governed by tyres mounted in front of and behind the implement. This enables even ground adaptation, which is particularly advantageous in undulating terrain and in areas with severe crop damage.

The implement has a total of 112 tines with the tried and tested SAPHIR diameter of 10 mm. This large number of tines ensures high processing density in combination with a high material throughput. Hydraulic tine adjustment is also available. This series can also be equipped with the well-known and popular impulse bar, or alternatively with a crossboard. The Perfect KS contour harrow can be combined with a trailed Cambridge or prismatic roller, which can also be used individually (for example in arable farming). The two pieces of equipment are combined for road transport ex works in compliance with the German Road Traffic Licensing Regulation (StVZO). With their combination of harrow and roller, SAPHIR will appeal to machine communities and agricultural contractors in particular.



### Completion of the silage technology range

When it comes to silage technology, SAPHIR now offers a comprehensive range of distribution equipment with its SV silage distributor. The SV silage distributor has been extensively tested in the field by the SAPHIR development team. It is characterised by optimum interaction between the drum diameter, weight and bearings to ensure reliable use throughout the season. This new silage distributor is available in two working widths (2250 and 2800 mm), and can be mounted as standard in the attachment categories Cat. II / III & IV. It can be hydraulically pivoted by 20° and ballasted with additional weights up to 1500 kg to ensure maximum smoothness. One special feature is the 150 mm screwable tools, which are unique to the market and ensure short downtimes as they can be replaced quickly. Special equipment such as a hydraulic drive, StVZO-compliant collision protection as a lighting support, 200 mm drum extensions and adaptable additional weights are also available upon request.



### Sweeper range completed with the ZKM mechanical sweeper

With the new ZKM sweeper available in working widths of 1.25 m, 1.50 m and 1.75 m, SAPHIR Maschinenbau now also offers mechanical, PTO-driven sweepers. The ZKM completes the existing sweeper range. In addition to the mechanical drive and a variety of different attachment options, the ZKM sweeper is ideal for operation with small tractors and municipal vehicles thanks to its compact attachment, low power requirement of only 7 kW/9.5 hp and working width of 1.75 m. An optional dirt collection tray plus all other well-known SAPHIR sweeper accessories (including various brush fittings, a side brush or a water sprayer) are also available for the new model.



### **New SAPHIR winter service spreader for municipal use**

The SAPHIR WDS 750 winter service spreader is a new addition to the winter service range, which was extensively tested in snowy regions during the past winter season. SAPHIR has complemented its existing winter service range with this newly developed spreader for professional use in the municipal sector, which is characterised by its eight throwing blades for even and precise distribution of the spreading material. The volume of the steeply shaped container is 750 litres, which can be increased to up to 1500 litres using the optional attachments. In addition to hydraulic slide control, the standard equipment also includes spreading rate adjustment via a laser-engraved numerical scale, numerous corrosion-resistant components made of stainless steel, and a double powder coating on painted parts. Depending on the area of application, various agitators can be installed without tools, for example for grit, salt or sand. Depending on the customer's requirements, the WDS 750 can also be equipped with other special equipment such as a tool holder, an access platform, LED work lights and a tarpaulin with folding device.

### **NOTES TO THE EDITORS**

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### **ABOUT SAPHIR MASCHINENBAU GMBH**

The SAPHIR ([www.saphir.de](http://www.saphir.de)) brand stands for practical, robust and tried and tested technology in the areas of grassland technology, tillage, equipment, and farm, industrial and municipal technology. SAPHIR's custom machine construction work consistently adheres to this principle. SAPHIR Maschinenbau GmbH is part of the FRICKE Group and employs a total of 90 people.

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