

Press Kit 2024



- Dates & Facts
- Press release
- Winner Innovation Awards
- Press release Asparagus Day
- Press release Berry Technology Forum
- Departure times “Messe-Express”



expoSE / expoDirekt - Daten & Fakten / Dates & Facts 2024	
Ort / Location	Messe Karlsruhe, Halle 1 und Halle 2
Termin / Date	20. und 21.11.2024
Bestehen / History	expoSE: 28. Veranstaltung, seit 1996 in Bruchsal, ab 2003 in der Messe Karlsruhe / 28th trade Fair, since 1996 in Bruchsal, since 2003 at Messe Karlsruhe expoDirekt: 13. Veranstaltung, seit 2011 / 13h trade fair, since 2011
Bruttofläche / Gross area	ca. 25.000 m² / around 25,000 sqm
Aussteller / Exhibitors	440 Aussteller , darunter 346 bei expoSE und 94 bei expoDirekt / 440 exhibitors , including 346 at expoSE and 94 at expoDirekt
Ausländische Aussteller / Exhibitors from abroad	112 internationale Aussteller / international exhibitors
Neuaussteller / New exhibitors	68 Neuaussteller , 51 bei expoSE und 17 bei expoDirekt / 68 new exhibitors , 51 at expoSE and 17 at expoDirekt
Produktkategorien / Product categories	270
Nationen / Nations	13
	Stand: 18.11.2024
Besonderheiten 2024 / Particularities 2024	
	<ul style="list-style-type: none"> ▪ 1. Steinobst-Forum 1st Stone Fruit Forum – 20.11.2024 ▪ 35. Spargeltag 35th Asparagus Day – 20.11.2024 ▪ Direktvermarkter-Forum Direktmarketer Forum – 20.11. + 21.11.2024 ▪ 2. Beerentechnikforum 2nd Berry Technology Forum – 21.11.2024
Trends und Neuheiten / Trends and news	
	<ul style="list-style-type: none"> • Neue Mulch- und Tunnelfolien / New mulching and tunnel films • Neue Maschinen und Optimierungen für die Bodenbearbeitung / New machines and optimisations for soil cultivation • Ernteroboter / Harvesting Robots • Innovative Technik für den Beerenanbau im Substrat / Innovative technology for growing berries in substrate • Neue Spargel-, Erdbeer- und Beerensorten / New asparagus, strawberry and berry varieties • Digitalisierung: Apps und Softwarelösungen für den Anbau, Betriebsoptimierung, Logistik und Direktvermarktung / Digitisation: apps and software solutions for cultivation, operational optimisation, logistics and direct marketing • Verkaufsautomaten / Vending machines • Spezialitäten für die Sortimentsergänzung in der Direktvermarktung / Specialties for supplementing the range in direct marketing

Auszeichnungen mit dem „Best of 2024“– Innovationspreis / Awards with the "Best of 2024" – innovation awards:

expoSE Innovationspreise / expoSE Innovation Awards:

4Disc aus / from Dortmund (Germany) – Halle 2, Stand: N16

Schneidgrubber zur sehr flachen Bodenbearbeitung für die Zwischenreihe im Spargelanbau / Cutting cultivator for very shallow soil cultivation for the inter-row in asparagus cultivation

Harlander Landtechnik aus / from Aresing (Germany) – Halle 1, Stand: G21

Hydraulische Serviceklappe für die Spargeldammfräse / Hydraulic service flap for the asparagus bed cutter

hexafarms aus / from Berlin (Germany) – Halle 1, Stand: B11

Intelligente Ertragsprognose für Erdbeeren und anderem Beerenobst im Tunnel / Intelligent yield forecast for strawberries and other soft fruits in tunnels

expoDirekt Innovationspreise / expoDirekt Innovation Awards:

getpacked / CLICK & COLLECT Service aus / from Groß-Umstadt (Germany) –

Halle 1, Stand: F10

Online shoppen und im Automaten abholen / Shop online and pick up at the vending machine

Schwab Automaten (Packmatisch) aus München / from Munich (Germany) –

Halle 2, Stand: K06

Verkaufsautomat mit Produktschalen-System / Vending machine with product tray system

Pflanzentheke aus / from Lorsch (Germany) – Halle 1, Stand: E14

Smartes vertikales Farmsystem für die Direktvermarktung / Smart vertical farming system for direct marketers

Weitere Informationen unter / More information at www.expo-se.de

Ansprechpartner für die Medien / Contact persons for the media:

Simon Schumacher

VSSE-Geschäftsführer und Vorstandssprecher / VSSE CEO

Tel.: +49 7251 3032080

schumacher@expo-SE.de

Isabelle Bohnert

Referentin für Presse- und Öffentlichkeitsarbeit / Officer for Press and Public Relations

Tel.: +49 7251 3032184

bohnert@vsse.de



expoSE & expoDirekt from 20 to 21 November 2024 at the Messe Karlsruhe (Karlsruhe Trade Fair Centre, Germany)

Trade fair duo expects 440 exhibitors from 13 countries

Bruchsal, November 18, 2024. 440 exhibitors from 13 countries are expected at the Messe Karlsruhe (Karlsruhe Trade Fair Centre) for the trade fair duo expoSE & expoDirekt from November 20 to 21, 2024. The 28th expoSE – Europe's leading trade fair for asparagus and berry production – and the 13th expoDirekt – Germany's largest trade fair for direct agricultural marketing – will present numerous innovations and proven products on around 25.000 square meters. The trade fairs are organized by the Association of Southern German Asparagus and Strawberry Growers, the Verband Süddeutscher Spargel- und Erdbeeranbauer e. V. (VSSE).

"Our trade fair duo is the largest platform for leading European suppliers to present new varieties, technical innovations and products to increase and secure yields. Innovation drivers are extreme weather, the shortage of labour and higher production costs due to the rising minimum wage, as well as alternatives to pesticides and sustainability. For the first time, we will be holding the Stone Fruit Forum as part of expoSE, as many asparagus and berry growers now also produce and market cherries and plums", explains Simon Schumacher, VSSE board spokesman and organizer of the trade fair duo.

Innovations for production and direct agricultural marketing

Among around 70 first-time exhibitors at expoSE are ALM – Adelhelm Landtechnik Maschinenbau, Boix Europe, Calpeda Pumpen Vertrieb, Carraro Traktoren Vertrieb, GEGER Machinebouw, Klasmann-Deilmann, Kubota, Lommers Tuinbouwmachines, Schur Pack, VOS-EVE Techniek. The expoDirekt welcomes Fruchtwerker, NatureCard, SELA Teigwarengeräte, Simply POS Vertrieb and Xibee for the first time.

New mulching and tunnel films, new machines and optimizations for soil cultivation, innovative technology for growing berries in substrate, more efficient application of beneficial organisms, energy savings and alternative energy sources, new asparagus, strawberry and berry varieties as well as many new products and creative solutions relating to efficiency, sustainability and cost savings can be found at expoSE.

At expoDirekt, innovative purchasing and payment systems as well as vending machines for farm shops and direct marketers can be seen in a wide range to give a good overview. Attractive additional products for the farm shop such as a range of regional Asian noodles, pumpkin chocolate nougat, regionally grown, roasted and salted peanuts from Franconia, strawberry and asparagus topping and asparagus seasoning, non-alcoholic drinks such as apple secco rosé, white mulled wine and hot wine "baked apple" can be sampled at the trade fair.

Supporting programme: Stone Fruit Forum, Asparagus Day, Berry Technology Forum and Direct Marketers Forum

Specialist lectures at the Stone Fruit Forum, the Asparagus Day, the Berry Technology Forum, and the Direct Marketing Forum round off the extensive offering.



The new Stone Fruit Forum Varieties | Trends | Technology offers specialist lectures on the topics of cherries and plums on the first day of the fair. Recognized experts present and explain new trends in varieties, cultivation management and cultivation technology. www.expo-se.de/en/stone-fruit-forum



The **35th Asparagus Day** on the first day of the fair offers specialist lectures on the topics of asparagus replant, the increase in asparagus and bean flies, the profitability of asparagus cultivation and possibilities for reducing the use of pesticides in asparagus cultivation. He also provides insights into the cultivation and marketing of green asparagus in southern Spain and provides current information from the world of asparagus in a short format. www.expo-se.de/en/asparagus-day



The **2nd Berry Technology Forum** on the second day of the fair, the topics of data-driven cultivation for better plant growth and energy savings, harvest forecasts for planning security, strawberry harvesting by robots, switching from soil cultivation to cultivation in the gutter and data-based irrigation will be discussed. www.expo-se.de/en/berry-technology-forum



The trade magazine HOFdirekt, in cooperation with VSSE eV, will publish the **Direct Marketer Forum** on both days of the fair at the HOFdirekt stand in Hall 1, G02. On the first day of the fair, specialist lectures will be held on the topic of “Smart shopping – digital store solutions without staff” and on the second day of the fair on the topic of “Brand Building”. www.expo-se.de/en/direct-marketer-forum

Arrival, tickets and opening hours



The Messe Karlsruhe (Karlsruhe Trade Fair Centre) is easily accessible by train (ICE and TGV stop, special offers from Deutsche Bahn: www.expo-se.de/en/Arrival-overnight-stay), car and plane. A free trade fair shuttle (Messe-Express) runs between Hauptbahnhof Karlsruhe (Karlsruhe Central Station – forecourt) and the Messe Karlsruhe (Karlsruhe Trade Fair Centre). The departure times can be found here: https://download.vsse.de/expoSE_expoDirekt/2024/Messe_Express.pdf



The regular day ticket costs 16 euros, the season ticket 30 euros. The price includes the trade fair catalogue and the supporting programme (Asparagus Day, Direct Marketing Forum, Berry Technology Forum, Stone Fruit Forum). Tickets are available online in advance. The parking ticket costs 8 euros online, 9 euros at the ticket office on site. Click here to go to the ticket shop: <https://www.messe-ticket.de/KMK/expoSE-expoDirekt/Shop/FaireventIndex?culture=en>

The trade fair duo will be open on Wednesday, November 20, 2024, from 9 a.m. to 18 p.m. and on Thursday, November 21, 2024, from 9 a.m. to 17 p.m. www.expo-se.de/en

Innovations at expoSE 2024 – a selection:

Harlander Landtechnik from Aresing (Germany) – Stand: Hall 1, G21

Hydraulic service flap for the asparagus bed cutter

As a world first, Harlander Landtechnik will launch the SDF-168 MSL asparagus bed cutter with hydraulic service flap. These wide-opening flaps make cleaning the machine and changing the beaters easier. Both activities can be carried out easily from above through the open flaps. This significantly reduces the time required for cleaning and maintenance and increases employee safety. Harlander has also developed various flap shapes and materials with which the asparagus bed cutter can be better adapted to different soil conditions. The flaps are interchangeable and the entire side housing sections can be opened. The interior of the machine has been designed to be free of concealed edges that are difficult to clean. www.harlander-landtechnik.de

4Disc from Dortmund (Germany) – Stand: Hall 2, N16

Cutting cultivator for very shallow soil cultivation for the inter-row in asparagus cultivation

As a world trade fair premiere, 4Disc is presenting the InterCut, a cutting cultivator for ultra-shallow and full-surface soil cultivation for the area between the ridges. It works from 1 cm with permanently horizontally rotating, sharp discs that cut through the weeds precisely at the root collar. In contrast to the duckfoot sweep, the flat disc requires hardly any counter pressure from the ground and works very precisely, even on humus-rich and sandy sites. In hard soil conditions, the rotating movement ensures reliable soil penetration. The sharp cutting edge in combination with the angle of attack keeps the soil open-pored. No soil is required for the self-cleaning effect. According to the manufacturer, this means that ultra-shallow work is also guaranteed with strong growth or large amounts of straw – and thanks to the compact design, it is fuel-efficient and easy to pull. The cutting cultivator can be conveniently and precisely adjusted to a depth of 1-12 cm using spindles. The two-bar cutting discs are followed by the three-row "Turn Over" harrow, which is safe to use thanks to its specially angled design and loosely places weeds on top to dry. The InterCut is attached to a narrow-track tractor. www.4disc.de/en

Bejo Samen from Sonsbeck (Germany) – Stand: Hall 1, C16:

New white asparagus variety for the middle segment

During expoSE, Bejo will announce the name of a new asparagus variety. The official announcement will be at the Bejo stand C-16 in Hall 1 on Wednesday, November 20th, at 11 a.m. This new white asparagus is an addition to the middle segment. This variety (previously known as Bejo 3408 F1) is characterised by very white, smooth spears with tightly closed scales and a good head closure. According to the company, it easily produces one more spear of asparagus in the good grade and has a higher yield than the current standard. The foliage is robust, strong and healthy. www.bejosamen.de

Plantcare from Russikon (Switzerland) – Stand: Hall 2, L07

Market launch of a multifunction sensor

The PlantCare multifunction sensor PlantSense SX is a measuring and transmission device for the simultaneous measurement of soil moisture and soil temperature as well as for measuring the EC value at a maximum of three positions in the root area. Only the water available to the plants is used for the measurement. It is also possible to measure soil moisture/soil temperature with three sensors. The measurement data can be used either just to monitor the crops or in combination with the PlantControl CX control unit for automatic irrigation with or without fertigation.

The multifunctional sensor enables organic farms, together with the PlantControl CX control unit, to use fully automatic irrigation with integrated fertigation in soil cultures for the first time. In addition to pure battery operation, the sensor function can also be powered by solar energy, and the housing is protected according to IP 67 standard. The NB-IOT variant will also be available in the existing sensor range (sensor design/sensor housing). www.plantcare.ch

STEP Systems from Nuremberg (Germany) – Booth: Hall 2, F15
New measuring system for soil moisture at three different depths

STEP Systems is expanding its range to include two devices for modern agriculture:
The Climavi Microclimate is an innovative system for measuring soil moisture at three different depths. The device simultaneously measures the humidity and temperature. This precise data helps farmers to optimally control their irrigation and cultivation.

The latest version of the COMBI 5000 measuring device offers a wide range of functions and flexibility: Up to ten different parameters can be measured (for example the PAR value, salinity or pH). The device thus provides a comprehensive analysis of the environmental conditions. In addition, the COMBI 5000 allows the user to continually expand it with additional parameters via simple updates and adapt it to current requirements. www.stepsystems.com

Lommers Tuinbouwmachines (Netherlands) – Stand: Hall 1, A15
New fully automatic asparagus cutting machine

Lommers Tuinbouwmachines, first-time exhibitor at expoSE, has developed an autonomous machine that can cut asparagus fully automatically. After three years of development, the company will be delivering a few machines to the first customers next spring. The machine consists of two harvesting heads, each of which takes 3 seconds to cut an asparagus. The loosened asparagus remains vertical in the asparagus bed, so it is within reach. If an asparagus is cut every 1,5 seconds, the machine can carry out 15,000 to 20,000 cuttings in 8 hours. Depending on the amount of asparagus per hectare, the machine adjusts its speed and controls this automatically. If it does not see any asparagus, it moves to the next cutting area at a higher speed. www.lommerstuinbouwmachines.com

Prefiro from Karlsruhe (Germany) – Stand: Hall 2, N24
Selective harvesting machine of green asparagus

Prefiro, a spin-off from the University of Hohenheim, is developing the first harvester specifically for the selective harvesting of green asparagus. With its technology, the company wants to offer asparagus farmers a reliable, economical alternative to manual harvesting. The machine enables fast, precise and gentle harvesting and can be attached to a narrow-track tractor. Last season, Prefiro was already able to carry out successful harvesting processes in the field with partner farmers. The company is now entering the pilot phase and is looking for other interested companies that would like to experience the benefits of the technology first hand in the 2025 season – with low risk and intensive support from the company. www.prefiro.de

Ant Robotics from Stelle (Germany) – Booth: Hall 2, L08
Innovative plant protection robot

For the first time at expoSE, Ant Robotics is publicly presenting ADIR Spray, an autonomous mobile robot platform that carries a water tank with a capacity of 150 - 200 litres and a 2-row boom with three or six nozzles per row. The sprayer can be customised depending on the tunnel specification. Navigation is autonomous: it can be equipped for remote control, person tracking or driving along defined routes. The plant protection robot is suitable for combined indoor and outdoor use, in tunnels and greenhouses. ADIR is easy to use with a user interface (GUI) included and is versatile. The

platform can be configured and expanded according to individual needs. It is very robust, strong enough for loads of over 400 kg and designed for continuous and reliable operation under the toughest conditions. www.antrobotics.de

Wanner Hans from Wangen (Germany) – Stand: Hall 1, C18
New plant protection superstructure for tabletop systems

With the new TE4/6 and TE6 plant protection superstructure for tabletop systems, Wanner says it is setting new standards for area coverage, flexibility and reliability. It is possible to treat 6 rows per pass, which increases the efficiency of the operation to a new level and minimises the use of personnel. In practice, there are often tunnels with differences in row spacing and number. With the TE6/4 system, the outer arms can be removed without tools, so that four rows can be treated instead of six, whereby the boom becomes narrower and can be driven in smaller tunnels. In addition, the individual nozzle rods can be easily moved into position and the number and angle of the nozzles can be adjusted. TE6 is suitable for narrow driveways thanks to its ingenious folding system. www.wanner-maschinenbau.de

Jiffy from Zwijndrecht (Netherlands) – Stand: Hall 2, H29
New peat-free pot with sphagnum moss

The Jiffy Group is presenting its new peat and plastic-free Jiffy Pot with sphagnum moss for the first time in Germany. It is suitable for crops such as young plants and trees, herbs and vegetables, soft fruit and grapes. Sphagnum moss is a purely natural, renewable raw material. The moss is collected using a technology that ensures that only a portion of the living plant is removed. This method returns the extracted water to the wetland, leaving plenty of spores from which new moss can grow. According to the manufacturer, the pot is robust and durable, but 100% compostable and has other properties such as: lower CO2 emissions compared to peat-based alternatives, excellent air circulation and drainage for rapid development of strong roots. www.jiffygroup.com

Hydroponic Systems from Murcia (Spain) – Stand: Hall 2, L12
Advanced hydroponic growing system for strawberry cultivation

Hydroponic Systems, first-time exhibitor at expoSE, has launched a new development: the HS Evolution Pot System, a hydroponic cultivation system specifically developed to optimise strawberry cultivation with bulk substrate. It is characterised by its combination of special pots, the Spacer Pot, and a metal gutter that efficiently collects the drainage from the plants. The design also facilitates disinfection and reuse, ensuring a more hygienic and safer growing environment. This technology, developed for greenhouses and tunnels, offers a significant improvement in water management. One of the main advantages of the HS Evolution Pot is the elimination of single-use plastic. Around 1,5 tonnes of plastic are avoided per hectare in each cycle, contributing to environmental sustainability and reducing disposal costs. The tailor-made bulk substrate is filled directly into the Spacer Pot pots, allowing for better plant distribution, greater flexibility in planting density and a significant reduction in waste. www.hydroponicsystems.eu

Bayer CropScience from Monheim am Rhein (Germany) – Booth: Hall 2, M05
Expertise in strawberries from planting to harvest

This year, Bayer Plant Protection and De Ruiter are presenting the new developments in strawberry cultivation together for the first time at expoSE. An important trend in German strawberry cultivation is the increasing popularity of remontant strawberries, which offer farmers an extended harvest period and thus the opportunity to maximise their yields. In order to support growers in this segment with innovative solutions, Bayer has also been involved in the breeding of strawberry plants since the

beginning of 2024. One variety in the portfolio is Malling™ Ace, which, according to Bayer, is a versatile, ever-bearing, high-yielding strawberry variety with good fruit quality and consistently large fruit size and is suitable for both outdoor and greenhouse cultivation. www.vegetables.bayer.com/de

Ceres International from Pyzdry (Poland) – Stand: Hall 2, M14

Coconut substrates for strawberry and berry cultivation

Ceres International, first exhibitor at expoSE, presents coco substrates made of high-quality, buffered and very clean cocopeat with a very low EC value, a low content of potassium, chlorine and sodium, but saturated with calcium cations. The company also offers the PAPER POT, filled with a carefully selected rooting substrate. It is used to prepare difficult-to-root cuttings, to mechanize and improve young plant production, eg through transplanting machines. According to the company, it shortens the rooting time and reduces the plant stress caused by transplanting.

With SAN TOP, buckwheat husks with natural glue that are ideal as mulching material, Ceres offers a very light product with a loose structure. It allows easy and precise dosing both mechanically and manually. When used, a long-lasting shell structure is created that is permeable to water, air and fertilizer and does not affect plant growth. Water evaporation in the pots is also reduced.

www.ceres.pl

Klasmann-Deilmann from Geest – Stand: Hall 1, B23

New sustainable growing substrate based on wood fiber technology

The growing medium manufacturer Klasmann-Deilmann now offers the innovative Growbag ADVANCED for vegetable and soft fruit production. The product does not contain any emission-laden materials such as peat, perlite, or rock wool, and relies on the sustainable GreenFibre® wood fiber technology in combination with reduced amounts of quality coconut. This new concept is based entirely on organic raw materials and is 100% compostable. For crop safety, the Growbag ADVANCED is easy to control, nutritionally balanced, and, according to the company, offers excellent structural stability to promote plant growth. The GreenFibre® Mix reduces CO2 emissions by up to 52% compared to coconut pith and even more compared to rock wool. www.klasmann-deilmann.com

Neessen from Groshoek (Netherlands) – Stand: Hall 1, B07

New strawberry varieties and a new asparagus variety in the late range

The propagator Neessen propagates the new strawberry varieties 'Cadenza' and 'Parlando' from Fresh Forward. 'Cadenza' is a new variety for outdoor cultivation with a late harvest period. According to Neessen, it is characterized by a good taste and large, firm and rain-tolerant fruits with a beautiful shine. It is available as a frigo or green plant. 'Parlando' is a variety for substrate cultivation, mainly for cultivation in spring up to planting at the end of April, and is available as a tray plant. It is characterized by an upright growth and an open structure. The long flower stalks make cultivation and harvesting easier. The fruits are firm, with a good taste and are also suitable for longer distribution channels.

As new asparagus varieties in the late season, Neessen is propagating 'Mosolim' from Limgroup and 'Surius' from Bejo. According to the company, both varieties show good head closure, better stalk quality and the potential to establish themselves successfully in the late season. www.neessen.nl

BERRY PLANT from Baselga di Pinè (Italy) – Stand: Hall 1, B08

Rubus plants – especially raspberry and blackberry varieties

BERRYPLANT is a Rubus specialist based in Trentino (Italy) and has been supporting the international fruit sector, in particular that of raspberries and blackberries, for over 30 years by distributing Rubus

plants of valuable varieties, such as the well-known raspberry variety Amalia Rossa®, to partners worldwide.

To consolidate the commitment in this direction, in 2019 the company BERRYTECH SRL was founded, dedicated exclusively to the selection, protection and dissemination of the current and future varieties of raspberries, blackberries, blueberries and strawberries tested, propagated and marketed by BERRYPLANT. www.berryplant.com

EL PINAR from Coca (Spain) – Stand: Hall 1, B01
Strawberry plants from Spain and Portugal

El Pinar, a first-time exhibitor at expoSE, is a leading strawberry plant propagator throughout the Mediterranean and Northern Europe, selling more than 250 million plants annually. El Pinar is diversifying its offer to meet consumer needs. The company produces varieties from Plants Sciences Genetics, for which it has had an exclusive license for more than 25 years. El Pinar offers a wide range of varieties, such as the everbearing 'Arabella', 'Triumph', PE112171 or PE112175, which provide high quality and high yielding fruit, as well as the June variety 'Inspire', a very successful variety in Northern Europe, which, according to El Pinar, combines very good performance for growers and exceptional quality of fruit for the market. www.elpinar.eu

Limgroup from Horst (Netherlands) – Stand: Hall 2, J11
Market launch of a new F1 hybrid strawberry

With F1 Hybrid 'Limore one', Limgroup is introducing its first strawberry grown from seed. For years, clonal strawberries were the norm. Now, according to the manufacturer, the breakthrough of the F1 Hybrid strawberry variety will take the industry to a more sustainable and future-proof level. The use of clean, risk-free starting material (seed) forms a sustainable basis for cultivation in several aspects: Plant breeders benefit from 100% clean starting material and a drastically shortened production cycle with automation options. They have flexible production options thanks to the availability of fresh plants on demand. They thus offer farmers the opportunity to work more efficiently and purposefully. Offering sustainably produced strawberries that meet current market demand shows an awareness of environmentally friendly practices and market requirements. www.limgroup.eu

Aminocore from Nordhorn – Booth: Hall 2, I18:
Efficient fertilizers and biostimulation products

Aminocore, exhibiting at expoSE for the first time, offers a range of amino acid-based products that promote plant growth, improve stress resistance and increase crop yields. The products are produced using an enzymatic hydrolysis process. According to the manufacturer, these are more effective than conventional chemically hydrolyzed amino acids at lower application rates and do not contain any synthetic additives. Aminocore's product range can be used on field crops as well as fruit-bearing and flowering plants and is even certified for organic farming. www.aminocore.de

Phytoplanta from Neuendettelsau – Stand: Hall 2, M09
Growth optimization through highly effective foliar fertilizers

Whether it is about fruit set, fruit formation, fruit quality or increasing vegetative growth, with the Green On® foliar fertilizer, Phytoplanta offers an application for every crop. The water-soluble granules dissolve quickly in the spray tank and can be combined with plant protection products as a tank mix. Thanks to the new MicroGo technology, in which micronutrients are combined with the amino acid glycine to form a very effective molecule, Green On® products ensure that the yield organs are optimally laid out and developed, according to Phytoplanta. The interaction of micronutrients and glycine increases the chlorophyll content and increases the productivity and

vitality of the plants. More energy for strong growth and improved tolerance to heat and drought lead, according to the manufacturer, to increases in quality and yield. www.phytoplanta.com

Bioline AgroSciences from Essex (UK) – Stand: Hall 1, D24

Two patented innovations for the use of predatory mites

Bioline Agrosciences, erstmals Aussteller auf der expoSE, produziert und vermarktet eine breite Palette von Nützlingen biologischen Pflanzenschutzes für alle Kulturen. Als internationales Unternehmen (in über 30 Ländern tätig) sind seine wichtigsten Zielkulturen Beerenobst, Gemüse, Zierpflanzen, Kräuter und Spezialkulturen. In diesem Jahr stellt Bioline AgroSciences Bugline Duo und Gemini Duo, zwei patentierte Innovationen für die Anwendung von Raubmilben, vor. Mit Bugline und Gemini Duo können zwei verschiedene Arten (*Amblyseius cucumeris* + *A. andersoni* oder *A. swirskii* + *A. californicus*) von Raubmilben in einem Arbeitsgang ausgebracht werden. Dies führt nicht nur zu einer optimalen Verteilung und Wirksamkeit, sondern auch zu einer Reduktion des Arbeitsaufwands. www.biolineagrosciences.com

COMPO EXPERT from Münster – Stand: Hall 2, M16

Innovative solution to supplement soil application with targeted foliar fertilization

With Basfoliar® Premium SL, COMPO EXPERT offers an innovative solution to supplement soil application with targeted foliar fertilization, which maximizes nutrient uptake via the leaves thanks to special salts. This complex formulation reduces the risk of leaf damage and promotes vital plants and higher yields.

Basfoliar® MnZn Premium SL is a liquid foliar fertilizer that consists of 100 percent organically complexed manganese and zinc: It provides 70 g/l manganese and 40 g/l zinc as well as essential trace elements for photosynthesis, chlorophyll formation and enzyme reactions. The carboxylic acids, polyols and carbohydrates it contains ensure a complex balance that is designed for maximum safety and nutrient absorption.

Basfoliar® K Premium SL contains a pH-buffered, very readily available form of potassium. This is easily absorbed and the special formulation prevents undesirable interactions between K⁺ and Mg⁺⁺/Ca⁺⁺ and also promotes the uptake of potassium. It provides 250 g/l of plant-available potassium, completely without nitrogen, and supports the development of color and size, improves storage capacity and leaves no residue on the surface of the fruit. www.compo-expert.de

Haifa from Mechelen (Belgium) – Stand: Hall 2, Stand H28

Special water-soluble micronutrient fertilizers for strawberry and blueberry cultivation

The Haifa Group is introducing special water-soluble micronutrient fertilizers at expoSE 2024, each of which is optimally tailored to strawberry and blueberry cultivation. The application of these ready-made formulations is easy and saves the grower resources and working time in nutrient management. According to the manufacturer, the fertilizers are partially chelated to ensure improved nutrient availability, low sodium levels and thus a healthier growing environment for the plant. www.haifa-group.com

Wurth Pflanzenschutz from Appenweier – Stand: Hall 2, H20

New mulching film

Wurth Plant Protection is launching a new mulching film at expoSE. The patented "Solar Shrink®" mulching film is thinner, stronger and denser than conventional mulching films. Under the influence of sunlight, the film shrinks and adapts to the contours of the ground. The low weight makes it possible to reduce the use of plastic in the field by up to 50%. The mechanical properties also ensure

excellent installation. According to Wurth Plant Protection, this film not only protects the environment, but also your wallet. www.wurth-pflanzenschutz.de

Böckenhoff Folien from Raesfeld-Erle – Stand: Hall 2, K24

New multi-layer tunnel film for berry cultivation

The multilayer film from Daios Plastics was specially developed for growing strawberries, raspberries, blueberries and other berry crops in tunnels. According to the manufacturer, the VENTO tunnel film impresses with its robust multilayer technology, which offers both mechanical strength and UV stability. Available in material thicknesses of 150 μ and 180 μ , the film is designed for a service life of four years. Thanks to its thermal properties, the film can effectively compensate for temperature differences within the tunnel. The VENTO film helps to prevent both extremely high temperatures and cold snaps, which optimizes the growing conditions in the tunnel and minimizes crop failures. Another special feature of the VENTO tunnel film is the integrated "cap" that prevents water from penetrating during rainfall without affecting natural ventilation. Soft fruit growers can choose between different diffusion levels to optimally adapt the light transmission to the specific needs of their crops. www.ehmo-tec-folien.de

Intech from Kehl-Auenheim – Booth Hall 2, I11

Innovative Agri-PV solution for soft fruit cultivation

Intech, exhibiting at expoSE for the first time, has developed a solution for the dual use of cultivation areas with the new PV tunnel. According to the manufacturer, the berry tunnel not only optimizes the conditions for growing berries, but also increases energy yield. The transparent PV modules arranged in a gable roof shape ensure that the plants receive sufficient sunlight and are protected from water, hail and frost at the same time.

Thanks to its own microclimate, the use of fungicides is reduced, while the electricity generated can be used directly for irrigation, lighting or gates or fed into the grid. According to the manufacturer, the berry tunnel offers a sustainable and future-proof solution for berry cultivation with a service life of 30 years. www.intechcleanenergy.com

hexafarms from Berlin – Booth: Hall 1, B11

Intelligent yield forecast for strawberries and other soft fruits in tunnels

hexafarms is now presenting its intelligent yield forecast for strawberry and berry cultivation in tunnels. The intelligent yield forecast provides greater planning security and can avoid underproduction and overproduction. hexafarms equips a small area of the tunnel cultivation with cameras and sensors and then monitors the growth. After a short training phase, the software can forecast the yield for the observed variety for the entire cultivation for up to three weeks. The company also uses weather and environmental data as well as historical values. By entering the harvest data, the forecast becomes more accurate from day to day. In contrast to manual counting, the intelligent yield forecast for tunnels includes a number of other parameters such as humidity, light, weather and environmental data as well as historical harvest values. The fully automatic counting of flowers and fruits and the consideration of different stages (example strawberries: blossom, small green, green, white, turning red, red) as the basis for the yield forecast saves the grower time. The system keeps an eye on the plants at all times and the forecast and any adjustments can be viewed in the system at any time, 24/7, and regardless of location. In addition to planning through accuracy and time savings, the system helps with other functionalities such as plant registration elements. www.hexafarms.com

Plant counter from Lorsch – Stand: Hall 1, E14

Smart vertical farming system

As a first-time exhibitor at expoSE, the plant counter is presenting its vertical farm system, in which soft fruit and vegetables are cultivated in a closed water cycle without soil. The plants are grown as young plants in a small substrate cube and then placed in the planting troughs of the plant counter, where they are supplied with water and the nutrients dissolved in it at regular intervals. All that is needed for operation is a power connection for the pump and the fertilizer control as well as a water connection. The supply of the plants is then completely automated. Soil-borne pests and weeds do not occur in the system. Direct marketers can use the plant counter to quickly and easily expand their range, produce fresh vegetables of high quality and regardless of the weather, practically on their doorstep, and offer their customers a special shopping experience when they can harvest the vegetables directly from the system themselves. According to the plant counter, the workload is reduced by the clean plants, and 90% of water and fertilizer are saved and five times the yield per square meter is generated compared to soil-based cultivation. This leads to high, reliable yields and short payback periods. The plant counter offers its customers all services from a single source: production and installation of the farm systems, ongoing support and advice, consumables such as substrate and the company's own nutrient solutions. The farm system is being continuously developed, for example through its own control system, which also incorporates weather data into the fertilizer control. The company is also working on a fully automated farm for protected cultivation. www.pflanzentheke.de

diveo from Freiburg im Breisgau – Booth: Hall 1, B03

Agri-PV for crop protection and as a source of income

diveo, an innovative company from the Fraunhofer ISE environment, has set itself the goal of offering agricultural businesses a double benefit through the use of agri-photovoltaics (agri-PV): protection of crops and access to an additional source of income that is independent of the climate and market. Agri-PV integrates photovoltaic systems directly into agricultural production. These systems provide shade and protection for sensitive plants while simultaneously generating solar power - a combination that secures agricultural yields and at the same time contributes to the energy transition. www.diveo-energy.com

Algeco from Kehl am Rhein – Stand: Hall 2, N02

Solar power directly from the container roof

Algeco Solar is the name of Algeco's new plug & play solution for supplying container buildings with sustainable solar power. A system consists of a steel roof frame with five photovoltaic panels that have a total output of up to 2.175 watts peak. The amount of solar power produced is enough to ensure the power supply of standard consumers in a container module. Algeco Solar helps users of rental modules to demonstrably reduce their energy costs and their carbon footprint. This is especially true in summer, when the energy requirement for cooling the building and a healthy indoor climate increases. The solar modules pre-installed on a flexible support frame enable quick and easy installation: after delivery and commissioning by a certified specialist company, the operators can use the system immediately. The usual official registrations are required.

www.algeco.de

Boix Europe from Eerbeek (Netherlands) – Stand: Hall 1, G26

Packaging machines for corrugated and solid cardboard boxes

Boix, a first-time exhibitor at expoSE, is specialised in the design and manufacture of machines for forming, closing and gluing various types of corrugated and solid cardboard boxes in the shape of

trays and baskets. The company operates in numerous sectors and has made a name for itself in the agricultural industry. With over 50 years of experience and more than 10.000 machines sold in 94 countries, Boix improves its packaging solutions through constant innovation.

The new MCT-1/TS machine is designed to form a special type of basket called Top Seal, which is becoming increasingly popular in the agricultural market as it is an environmentally friendly solution. In addition to the baskets, Boix offers many other solutions for larger open trays or boxes. In terms of size and design, there is a wide range of possibilities, according to the manufacturer. www.boix.com

Merqato from Amsterdam (Netherlands) – Booth: Hall 1, F15
Platform for fruit and vegetables

Merqato, a first-time exhibitor at expoSE, helps fresh fruit and vegetable companies improve their profit margins through better forecasting across the supply chain. The company has developed a software platform based on artificial intelligence that supports and improves the supply and demand matching process. In Germany, Merqato works with companies such as SanLucar and AMI to improve the efficiency of strawberry supply chains.

Merqato's product is a software interface that collects data from production, market and sales to provide the right information to product managers and commercial directors, for example. It replaces Excel spreadsheets and improves forecast accuracy by more than 25%, according to the company, while extending the forecast time frame to 6-8 weeks. Customers get a longer and more accurate overview of their production and sales volumes. The platform enables better operational planning, which leads to lower costs (harvesting, packaging, etc.) and better visibility of market volumes and prices, thus enabling better decisions.

The company never shares data between customers, but its algorithms are better because they have access to large data sets. Key partners are AMI and QC Fresh (Peru), who give it access to their data. Its extensive experience with strawberries includes a collaboration with agronomists at Wageningen University and 30 million kilograms of strawberries analyzed per year (and growing).

www.merqato.eu

TENRIT Foodtec Maschinenbau from Schloß Holte-Stukenbrock – Booth: Hall 2, K13
Dehulling machine for strawberries

Since this year, the TENRIT company has been offering the TENRIT TDM, a machine for automatically removing the hulls from strawberries. With an output of up to 60 kg/hour, the operator processes about as many strawberries as three workers do by hand. Depending on the type and growth of the foliage, the cut and the cutting depth can be adjusted so that the loss is reduced. The TDM stands on rollers and takes up hardly any space with a base area of 40 x 60 cm. Optionally, you can also halve the strawberries directly. The machine is suitable for companies with a large demand for dehulled strawberries for their own processing or for marketing to large consumers such as bakeries or restaurants. www.tenrit.com

New products at expoDirekt 2024 – a selection:

Braun Ch. / Scales & Machines & Systems from Edingen-Neckarshausen – Stand: Hall 2, K02
Direct access from the scale to the inventory management system and apps

Braun Ch. / Scales & Machines & Systems, as a SYNER.CON partner, is introducing the APRO.CON ScaleAddOns. Users of Mettler-Toledo FreshWay scales can now access the APRO.CON inventory management system directly via the user interface of their scale. Customers can thus significantly expand the range of functions of their scales without investing in additional hardware. At the same time, employees can carry out more tasks on the scale. This makes the operating processes faster and

easier, as some intermediate steps in operation and walking routes are eliminated.

The cash book app and the customer card and voucher solution are now available: Employees can use the cash book app to complete the cash register closing. When developing the user interface, great importance was placed on ensuring that it is as simple, clear and easy to understand as possible. This is intended to eliminate the risk of incorrect operation or incorrect entries as best as possible.

According to the manufacturer, the customer card and voucher solution makes using customer cards and redeeming vouchers much easier for both employees and customers. www.braun-waagen.de

midcom – Cloud Software & Apps from Meckenheim – Booth: Hall 1, E16

Organic producer apps digitize direct sales, POS trade and production

The organic producer apps - www.ernte.app - automate and combine many steps in sales, production, storage, trade and the final invoicing in a cloud app solution. A major core theme here is product tracking for producers as a basis for their certification. The products and their containers are digitally recorded and made traceable across the entire value chain. The POS cash register app for smartphones/tablets enables fast trading including payment function with the debit card including TSE cash register receipt via Epson printer.

Sales works with the www.Direktvertrieb.App or in the web browser, completely paperless. All product data, warehouse data and customer data are available in real time and enable the rapid recording of a pre-order, purchase order or invoice. The orders created are immediately available to production.

The harvest helper software www.ernte-online.de and mobile performance recording enables direct control of the harvest results per field, per team, per helper in order to optimize the entire production process of the agricultural operation. The entire personnel process can be carried out with the help of the system, from the online harvest helper application to the printing of the forms. The simple field management can document both the performance/material input and the yield per field. www.midcom.de

HEPRO from Rheda-Wiedenbrück – Stand: Hall 1, D02

New industrial asparagus peeling machine for more flexibility, automation and profit maximization

As a world premiere, HEPRO is launching the new industrial asparagus peeling machine on the market: According to the manufacturer, the 9000XL variant impresses with an extended peeling range/diameter of 8 to 36 mm (+17%) and a larger range of asparagus lengths to be peeled of up to 250 mm. The new gripping system uses specially coated, elastic grippers to precisely grasp the asparagus contour and gently processes the delicate vegetable. The use of resources is also optimized by the ECO mode, which reduces water consumption by up to 78%. The peeling machine also scores points with energy-efficient gear motors in efficiency class IE3 and a new infeed conveyor with FreshCut, FixCut and alignment functions. These innovations enable an increase in productivity and a noticeable reduction in water, electricity and air consumption. The open design of the machine makes cleaning easier and ensures even greater efficiency in daily operation. According to HEPRO, time-consuming re-peeling is no longer necessary thanks to the very reliable peeling quality, even with long asparagus spears. www.hepro-gmbh.de

Eiberger Automaten from Ellwangen – Stand: Hall 2, I09

New drum machine with greater flexibility in product range

The new Eiberger Festival vending machine provides even greater flexibility in the range of goods. The machine's larger sales compartments offer the possibility of selling, for example, apple juice in a 3-litre bag-in-box, potatoes packed in 2,5 kg bags or strawberries up to 2,5 kg conveniently, without causing damage and easily. The machine's small footprint with maximum product capacity is another

advantage. The cooled machine offers the option of setting different temperature zones (colder at the bottom, warmer at the top) between +3°C and +20°C. www.eiberger-automaten.de

CMS Metasys from Schauenburg – Booth: Hall 2, H15

New for product presentation: free-standing shelf with metal front for changing magnetic foils

CMS Metasys offers a new, versatile free-standing shelf - FR 1252 - for indoor use with four presentation levels and a large metal front for magnetic advertising foils. The graduated floor depth allows good visibility of the goods. The price rails are suitable for magnetic price labels or scanner rails. The shelf can be used on one or both sides and can be set up individually or in a row. The fully assembled shelf is delivered on a pallet. www.cms-metasys.de

G'sunder Drucker from Leonding (Austria) – Stand: Hall 1, D07

Organic labels for regional products

Michaela and Christoph Stadlmann have invented the G'sunden printer, a label solution for organic farmers, direct marketers and small commercial craft businesses. This allows you to print labels yourself at any time and in any quantity. There are many sustainable materials to choose from, with great emphasis on environmentally friendly and energy-saving production. By growing the raw materials regionally and producing the unprinted labels locally in Austria, a lot is also done for the CO2 balance. www.bioetiketten.at

getpacked / Click & Collect Services from Groß-Umstadt – Booth: Hall 1, F10

Shop online and pick up at the vending machine

The new product getpacked & collect seamlessly combines the online shop solution from getpacked with the refrigerated flap machines from Click & Collect Services. This means that every company can offer a user-friendly online shop and a pick-up point that is accessible around the clock - without any prior technical knowledge. This saves time and money and makes it possible to reach new customer groups. The customer orders the desired products online. The company packs the goods in the pick-up box for the customer. Payment is made digitally (or at the machine if desired). All notifications such as pick-up codes, order confirmations and invoices are sent digitally. This integration simplifies both the ordering and pick-up process and stands out due to its user-friendliness and accessibility. This enables small companies to compensate for staff shortages and open up new logistics and sales opportunities. www.getpacked.de

LocaFox from Bielefeld – Stand: Hall 1, E11

Innovative self-service solutions for direct marketers and farm shops

LocaFox presents its latest self-checkout solution. It enables customers to scan products independently and pay with cash, debit card or voucher. Waiting times are significantly reduced and customers benefit from an efficient shopping experience. Especially in farm shops, where there is often less staff available, self-service terminals relieve the burden on employees so that they can concentrate on tasks such as customer advice or product care. The self-checkout solution can be easily integrated into existing system landscapes and offers an intuitive user interface. The system can be used independently, but also as an extension of an existing cash register system, such as the LocaFox tablet cash register. Several self-checkout cash registers can easily be connected to the same back office. www.locafox.de

NatureCard from Bonn – Stand: Hall 2, I14**Environmentally friendly payment card with individual design**

Gift cards are a popular gift, whether in your own farm shop, in a branch, or in a pop-up store. MyGiftcard (YICS) is an app that allows you to top up shopping gift cards easily and securely anywhere and then redeem them accordingly. NatureCard offers designs and individual layouts for all occasions. The organic gift cards are produced by NatureCard from recycled PVC and printed in a climate-neutral way. The cards can also be used as your own means of payment. They can be downloaded free of charge from the Apple Store or the Google Play Store. www.nature-card.shop/gutscheinkarten-app-yics

Schwab Automaten (Packmatisch) from Munich – Booth: Hall 2, K06**Vending machine with product tray system**

Schwab Automaten is presenting the prototype of its vending machine for the first time. The HofKiosk, specially developed for direct agricultural marketing as part of a funded project at the Munich University of Applied Sciences, differs fundamentally from conventional vending machines due to its product tray system. Customers can select their desired products via a user-friendly touch panel and pay contactlessly. The selected product is transported safely and gently to the customer in the special product tray.

The vending machine is suitable for selling products up to a size of 28 cm x 17 cm x 12 cm and especially for products without additional packaging. With its compact size of 1,20 m x 2,90 m, it offers space for ten different products with 10 compartments each (for a total of 100 products). It is equipped with a powerful cooling system that keeps the products at up to 0 °C regardless of the outside temperature and protects the products from light, which extends their shelf life and maintains product quality. www.Packmatisch.de

Xibee from Dornbirn (Austria) – Booth: Hall 1, F07**App makes vending machines, self-service locations and farm shops in the vicinity digitally visible**

Xibee is a platform that makes products and services - such as click-and-collect services - digitally visible. By selling at the vending machine, the desired goods go straight from the producer to the table. 24/7 availability plus short transport routes plus regional added value - this is what Xibee supports. In addition, the user discovers new, regional suppliers in their area, sees current and seasonal offers, and receives new information from the Xibee community. According to the operator, the intuitive user interface makes searching and finding very easy; users can also leave helpful comments and ratings that only the supplier can see, or point out new vending machine locations. This gives users valuable Xibee loyalty points with which they can win vouchers or discounts. The Xibee app currently includes over 3.000 vending machines, farm shops and collection points. www.xibee.io

FrachtPilot from Münster – Stand: Hall 1, B05**New features of the cloud software**

As the market leader, FrachtPilot offers all the functions for efficient direct marketing from the field to the sale: recording harvest and working times, optimizing inventory, managing sales stands and orders, planning logistics and creating invoices - all digitally with cloud software. FrachtPilot now offers new functions that were developed specifically for asparagus and berry farmers: app-based work and harvest quantity recording (Apple/Android) with offline capability, management of sales stands (including sales quantities and weights, sales times, recording inventory and returns), linking of cash register and weighing systems in real time. www.frachtpilot.de

Freight pilot from Münster – Gerd Thom from Völklingen – Stand: Hall 1, B05

Digital twin for goods flows and activities in asparagus and strawberry marketing

The digital twin, jointly developed by FrachtPilot and Gerd Thom GmbH, makes it possible for the first time in the field of asparagus and strawberry marketing to digitally record the flow of goods and activities from the field to the point of sale. The digital twin is provided via the cloud software FrachtPilot and can be addressed via a general, publicly accessible programming interface (REST API).

On the basis of the digital twin, both goods flows (e.g. breakage, spoilage, returns, marketing) and activities (e.g. field work, harvest, logistics, sales) can be precisely documented and analyzed along the value chain for each harvest and sales unit. On the basis of the analyses, suitable individual measures for an activity (e.g. increasing the number of harvest workers, adjusting quality control or adjusting the quantities provided at a sales location) can then be determined in real time. Furthermore, measures can also be precisely aligned with one another using the data from the digital twin. For example, (planned) marketing activities can be coordinated with the existing logistics and harvest capacity. <https://frachtpilot.de/digitaler-zwilling/>

ETIVERA Verpackungstechnik from St. Margarethen an der Raab (Austria) – Stand: Hall 2, I04

New bottle series for cooking oils and vinegars

High-quality cooking oils and vinegars have a permanent place in the diet and are not only trendy, but an important component of many dishes. When storing, protection from light is an essential factor in order to protect the high-quality liquids from sunlight. This is why ETIVERA has opted for dark glass for the new Forum bottle series. When designing the bottle, the company paid particular attention to the proportions of the bottle, particularly to increased stability. The cylindrical shape of the bottle allows for a maximum label area, on the one hand to place all information, and on the other hand to guarantee a dazzling appearance of the respective brand with the label as a design element. Forum is available in volumes of 500 and 250 ml. FORUM glass bottle (etivera.com)

ALB-GOLD from Trochtelfingen – Stand: Hall 2, K07

Regionally produced Asian noodles from the Swabian Alb

ALB-GOLD presents its new Asian product line with organic rice, soba and wok noodles. The family company produces the entire range itself in Germany. The Swabians are responding to the growing demand for Asian food. The new line particularly appeals to the younger generations who value international cuisine, quick preparation and conscious nutrition. The versatile noodles are suitable for soups, salads, wok dishes or as a side dish. With short cooking times and organic quality, ALB-GOLD Asia offers a quick, healthy solution for the modern lifestyle. The product range includes seven variants made from rice, buckwheat, spelt and wheat flour, all without additives and with a short list of ingredients for maximum transparency. www.beste-landqualitaet.de

Chocolaterie Holzderber from Worms – Stand: Hall 2, K01

New treat: pumpkin chocolate nougat

To expand the farm shop range, especially in autumn and winter, the Chocolaterie Holzderber is offering a new creation with pumpkin seeds: pumpkin chocolate nougat. According to the manufacturer, this combination impresses with its fine balance of nutty and sweet. The pumpkin seeds bring a pleasant crunch, which gives the soft chocolate nougat a sophisticated texture and depth. www.holzderber.de

EisBerger / Konditorei Telgmann from Werne – Stand: Hall 1, F04
Spaghetti ice cream – nostalgic enjoyment in premium quality from the can

Everyone knows from childhood memories the delicious spaghetti ice cream with cream filling, fruity fresh strawberry sauce and white chocolate shavings - a classic that still delights today. EisBerger has managed to bring this special moment of enjoyment in confectionery quality into a can. So ice cream lovers can now fully enjoy this dessert at home.

With this innovation, EisBerger combines traditional ice cream with modern production technology. www.eis-berger.de

Gewürzmühle Brecht from Eggenstein – Stand: Hall 1, F08
strawberry topping and asparagus seasoning

For 2025, Gewürzmühle Brecht has developed two new aromatic products: Brecht Strawberry Topping and Brecht Asparagus Spice.

The Brecht strawberry topping particularly highlights the fine, aromatic flavors of the strawberries with bourbon vanilla, basil and mint. The coconut blossom sugar, which tastes slightly like caramel, also adds to the strawberry flavors with its slightly bitter note. The manufacturer has developed an attractive counter display especially for the farm shops and combined the strawberry topping with its bourbon vanilla sugar and tonka sugar.

The Brecht asparagus seasoning does not contain any salt. The many herbs - especially tarragon and lemon balm - make eating asparagus a herbal and fruity treat. www.gewuerzmuehle-brecht.de

Grischberli Jakob&Eva from Fürth – Stand: Hall 1, F09
Regionally produced, roasted and salted peanuts from Franconia

In Germany, peanuts have so far only been grown on an experimental basis. Jakob, Eva and Eva's cousin Martin have been experimenting with peanuts since 2022 and were able to bring the first prototypes of their roasted salted peanuts onto the market in December 2023. According to the company, these were the first from Germany. With an additional year of experience, they market the peanuts grown and processed in Franconia as roasted salted "peanuts". They are sold in stand-up pouches of 100g each, mainly through farm shops. www.grischberli.de

Gut Böckenhoff from Raesfeld-Erle – Stand: Hall 2, K21
Adelheid's Hazelnuts

The hazelnut is a type of nut native to Germany, but a very large proportion of the nuts consumed here are imported. To change this, Gut Böckenhoff, exhibiting at expoDirekt for the first time, planted hazelnut bushes on a large scale a few years ago, which have been bearing their first fruits since 2019. The company refines the harvest in its hazelnut factory: Here the nuts are freshly cracked, gently roasted and processed into delicious nut specialties.

Freshly roasted hazelnuts are rich in unsaturated fatty acids, vitamins and valuable minerals. Whether in sweet or savory dishes - they give the food a fine, tart note and offer a special treat. www.gut-boeckenhoff.de

JO Snack from Rehden – Stand: Hall 1, G09
Crispy country potato chips in new flavors

The country potato chips have been produced at the Johanning potato farm in Rehden, Lower Saxony, since 2011 and are offered exclusively to farm shops and direct marketers, as well as organic retailers, specialty stores and Raiffeisen markets. Since mid-2022, the well-known varieties of paprika, salt & pepper and sour cream & spring onion have been shining in a new, fresh look. In addition, there are

now three other organic varieties: rock salt, sweet pepper and tomato. The basic requirement for the country potato chips are the freshly harvested potatoes, which are washed, sliced and then fried in the kettle after successful quality control. This gives them their special and long-lasting crunch - regardless of whether they are conventional or Bioland quality. www.jo-snack.com

LUPA di mare from Mandelbachtal – Stand: Hall 2, H18
Sicily for Home

Annika and Riccardo, a young couple from Saarland, want to bring authentic Sicilian variety to Germany and Austria with LUPA di mare | Sicily for Home. Sicilian cuisine is so original, intense and rich - and this is by nature - that chemical additives and flavor enhancers are a rarity. They sell delicatessen products from Sicilian farmers and family businesses through their own online shop and regional partners. In this way, they continue the same family approach as in Sicily and, on the one hand, offer their customers the opportunity to buy their products locally, and, on the other hand, give regional companies, such as farm shops, wineries and bakeries, the opportunity to expand their range with Sicilian delicatessen. Their products include, for example, extra virgin olive oil, spices, antipasti, pistachio cream and various pestos. www.lupadimare.de

Naschlabor from Babenhausen – Booth: Hall 1, E03
New: Chocolate Fruit Juice Bear

As part of expoDirekt 2024, the Naschlabor company is presenting its sweet highlight: the chocolate fruit juice bear in a 200g pack. This product combines the fruit juice bear, made from pure fruit juice, with a chocolate shell that has a cocoa content of 60%. According to the manufacturer, the high-quality fruit gum core is rich in vitamin C, gluten-free and contains no artificial colors. www.naschlabor.de

Nüsse von hier FS from Wolfsheim – Stand: Hall 2, I10
Almonds from Rheinhessen

For the first time, Nüsse von hier presents almonds from Rheinhessen as a regional superfood. In 2018, Peter planted the first trees in beautiful Rheinhessen. Over 90% of the almonds so far come from overseas and are produced there using considerable amounts of water. The regional nuts only need rainwater and grow right on the doorstep. They are regularly cracked fresh for even more freshness. www.thats-nuts.de

Secco production Mengel-Eppelmann from Stackeden-Elsheim – Stand: Hall 1, E06
Non-alcoholic secco and long-lasting Federweißer

The HACCP-certified contract bottler for still and carbonated beverages in the glass sector produces fruit seccos from many types of fruit such as cherries, strawberries, currants, apples, pears and quinces. Cold sterile filling, hot filling or cold sterile filling with subsequent pasteurization are possible. The company offers glass, PET or bag in box packaging.

At expoDirekt, Seccoherstellungen Mengel-Eppelmann will present an alcohol-free apple secco rosé, an alcohol-free white mulled wine and a long-lasting Federweißer. <https://me-secco.de>

SinnLicht from Karlsruhe – Stand: Hall 2, J08
Candles made from recycled wax – handmade & sustainable

SinnLicht, exhibiting at expoDirekt for the first time, has been hand-making sustainable candles and torches from 100% recycled wax for nine years. According to the company, this concept already works very well in over 100 shops (unpackaged, farm shop, health food store, concept store, etc.). The candles are handmade in the factory in Karlsruhe, completely colored and impress with their long

burning time. Not only sustainable, but also social: SinnLicht donates part of its sales to social projects and involves the local Diakonie facility in production. www.sinn-licht.de

Verpackungsstadl from Sattledt (Austria) – Stand: Hall 1, E05

Packaging solutions for direct marketing

At expoDirekt, Verpackungsstadl GmbH is presenting the 3L "Fruit Motif" Bag-in-Box stand-up pouch, an innovative packaging for food producers who want to package fruit juices, wine, cider or other liquids safely and conveniently. The "Fruit Motif" stand-up pouch combines functionality and design: the 3-liter packaging is not only space-saving and lightweight, but also user-friendly thanks to the integrated pouring system. It also saves the extra cardboard that is usually required for bag-in-box. The packaging is suitable for sale at weekly markets or in farm shops and ensures that the products stay fresh for a long time. www.verpackungsstadl.at

Waidmann Feinkost from Heuchlingen – Stand: Hall 1, G07

Asparagus topping made from spices

According to Waidmann Feinkost, "Asparagus Crackling" transforms asparagus into a true taste experience, a crackling explosion of aromas and textures that will expand the taste palette. Whether prepared in the classic way, refined in a sauce, grilled or as a refreshing salad - with asparagus crackling, every bite becomes an exciting discovery. Under the direction of spice sommelier Hanna Waidmann, not only spices are created, but the essence of the passion for exquisite taste experiences. The asparagus crackling contains sesame, paprika flakes, tomato flakes, garlic, parsley and ground black pepper. www.feinkost-waidmann.de

Note: The information on the new products was provided by the exhibitors at expoSE and expoDirekt. The list is a selection.

The Association of South German Asparagus and Strawberry Growers. V. (VSSE)

The Association of South German Asparagus and Strawberry Growers. V. (VSSE) is Germany's largest association of asparagus and strawberry growers with around 630 members. Since 1996, the VSSE has been the organizer of expoSE - Europe's leading trade fair for asparagus and berry growing - and since 2011 it has also been the organizer of Germany's largest agricultural direct marketing trade fair, expoDirekt.

For more information, please visit www.vsse.de

Contacts:

Verband Süddeutscher Spargel- und Erdbeeranbauer e.V. (VSSE)
Association of South German Asparagus and Strawberry Growers
Werner-von-Siemens-Str. 2-6 / Building 5161
76646 Bruchsal

Simon Schumacher, Managing Director / Board Spokesman
Tel .: + 49 (0) 7251 3032080 | schumacher@vsse.de

Isabelle Bohnert, press and public relations officer
Tel .: + 49 (0) 7251 3032184 | bohnert@vsse.de

Europe's berry and asparagus industry will meet at Messe Karlsruhe from November 20th to 21st, 2024

Awarded: Six exhibitors receive the expoSE/expoDirekt Innovation Prize

Karlsruhe, November 20, 2024. Six exhibitors will receive the expoSE or expoDirekt Innovation Award 2024 for their innovative product as part of the trade fair duo on November 20, 2024. An independent jury of experts has rated 20 submissions based on criteria of the degree of novelty, the advantages for users and the economic success. The award-winning products make the everyday work of asparagus and/or berry growers easier, save time and costs and The award-winning products make the day-to-day work of asparagus and/or berry growers easier, save time and money and offer more convenience and a better shopping experience for direct marketing customers.

The winners of the expoSE innovation awards:

4Disc from Dortmund (Germany):

Cutting cultivator for very shallow soil cultivation for the inter-row in asparagus cultivation

4Disc receives an expoSE innovation award for the InterCut, a cutting cultivator for ultra-flat and full-surface soil cultivation for the area between the ridges. It works from 1 cm with permanently horizontally rotating, sharp discs that cut through the weeds precisely at the root collar. In contrast to the goosefoot flock, the flat disc requires hardly any counter pressure from the ground and works very precisely, even on humus-rich and sandy sites. The cutting cultivator can be conveniently and precisely adjusted to a depth of 1-12 cm using spindles. The two-bar cutting discs are followed by the three-row "Turn Over" harrow, which is safe to use thanks to its specially angled design and loosely places weeds on top to dry. The InterCut is attached to a narrow-track tractor.

For more information, please visit expoSE, Hall 2, Stand N16 or www.4disc.de/en

Harlander Landtechnik from Aresing (Germany):

Hydraulic service flap for the asparagus bed cutter

Harlander Landtechnik has been honoured with an expoSE innovation award for the hydraulic service flaps on the SDF-168 MSL asparagus bed cutter. These wide-opening flaps make it easier to clean the machine and change the beaters. Both activities can be carried out easily from above through the open flaps. This significantly reduces the time required for cleaning and maintenance and increases employee safety. The flaps are interchangeable and the entire side housing sections can be opened. The interior of the machine has been designed to be free of concealed edges that are difficult to clean.

For more information, visit expoSE, Hall 1, Stand G21 or www.harlander-landtechnik.de

hexafarms from Berlin (Germany):

Intelligent yield forecast for strawberries and other soft fruits in tunnels

hexafarms receives an expoSE Innovation Award for its intelligent yield forecast for strawberry and berry cultivation in tunnels, which provides more planning security and helps to avoid under- and overproduction. hexafarms equips a small area of the tunnel cultivation with cameras and sensors and then monitors the growth. After a short training phase, the software can forecast the yield for the observed variety for the entire cultivation for up to three weeks. The company also uses weather and environmental data as well as historical values. By entering the harvest data, the forecast becomes more accurate from day to day.

For more information, visit expoSE, Hall 1, Stand B11 or www.hexafarms.com

The expoDirekt innovation award winners:

getpacked / CLICK & COLLECT Service from Groß-Umstadt (Germany):

Shop online and pick up at the vending machine

The companies receive the expoDirekt Innovation Award for their new product getpacked & collect, which combines the online shop solution from getpacked with the refrigerated flap vending machines from CLICK & COLLECT Service. This means that any business can offer a user-friendly online shop and a collection point that is accessible around the clock without any prior technical knowledge. This saves time and money and makes it possible to reach new customer groups. The customer orders the desired products online. The company packs the goods in the pick-up box for the customer. Payment is made digitally (or at the machine if desired). All notifications such as pick-up codes, order confirmations and invoices are sent digitally. This integration simplifies both the ordering and pick-up process and stands out due to its user-friendliness and accessibility. This enables small companies to compensate for staff shortage and open up new logistics and sales opportunities.

For more information, visit expoDirekt, Hall 1, Stand F10 or www.getpacked.de

Schwab Automaten (Packmatisch) from Munich (Germany):

Vending machine with product tray system

Schwab Automaten receives an expoDirekt innovation award for its vending machine with product tray system. It is particularly suitable for products without additional packaging. Customers can select their desired products via a user-friendly touch panel and pay contactlessly. The selected product is transported safely and gently to the customer in the special product tray. The vending machine is suitable for selling products up to a size of 28 cm x 17 cm x 12 cm. With its compact size of 1,20 m x 2,90 m, it offers space for ten different products with 10 compartments each (for a total of 100 products). It is equipped with a powerful cooling system that keeps the products at up to 0 °C regardless of the outside temperature and protects the products from light, which extends their shelf life and maintains product quality.

For more information, visit expoDirekt, in [Hall 2, Stand K06](#) oder www.Packmatisch.de

Pflanzentheke from Lorsch (Germany):

Smart vertical farming system for direct marketers

Planzentheke receives an expoDirekt innovation award for its vertical farming system, in which soft fruit and vegetables are cultivated in a closed water cycle without soil. With the plant counter, direct marketers can quickly and easily expand their product range, produce fresh vegetables of high quality virtually on their doorstep, regardless of the weather, and offer their customers a special shopping experience when they can harvest the vegetables themselves directly from the plant.

The plants are grown as young plants in a small substrate cube and then placed in the planting troughs of the plant counter, where they are supplied with water and the nutrients dissolved in it at regular intervals. All that is needed for operation is a power connection for the pump and the fertiliser control as well as a water connection.

For more information, please visit expoDirekt, [Hall 1, Stand E14](#) or www.pflanzentheke.de

The expert jury

An independent jury of experts examined and awarded the entries. The jury includes Stefan Blümel, asparagus and berry cultivator, Ralf Große Dankbar, asparagus consultant for Chamber of Agriculture North Rhine-Westphalia, Dominic Ell, berry cultivator, Ute Heimann, editor-in-chief of the trade magazine HOFdirekt, Simone Hofmann, chairwoman of the Association of Hessian Direct Marketers, Isabelle Kokula, official asparagus consultant for the Karlsruhe District Office.

The trade fair duo expoSE & expoDirekt will be open on November 20th, 2024 until from 9 a.m. to 6 p.m. and on November 21st, 2024 from 9 a.m. to 5 p.m. at Messe Karlsruhe.

Further information at www.expo-se.de

The Association of South German Asparagus and Strawberry Growers. V. (VSSE)

The Association of South German Asparagus and Strawberry Growers. V. (Verband Süddeutscher Spargel- und Erdbeeranbauer e.V. – VSSE) is Germany's largest association for asparagus and strawberry growers with around 630 members. Since 1996 he has been the organizer of expoSE - the leading European trade fair for asparagus and berry production, and since 2011 he has also been organizing Germany's largest agricultural direct marketing trade fair, expoDirekt. Further information at www.vsse.de

Contacts:

Verband Süddeutscher Spargel - und Erdbeeranbauer e.V.

Werner-von-Siemens-Str. 2-6 / Gebäude 5161 | 76646 Bruchsal

Simon Schumacher, Geschäftsführer / Vorstandssprecher

Tel.: +49 (0)7251 3032080 | schumacher@vsse.de

Isabelle Bohnert, Referentin für Presse- und Öffentlichkeitsarbeit

Tel.: +49 (0)7251 3032184 | bohnert@vsse.de



Baden-Württemberg

REGIERUNGSPRÄSIDIUM KARLSRUHE

PRESS OFFICE

PRESS INVITATION / EVENT NOTICE

26 September 2024

35th Asparagus Day in Karlsruhe

Date: Wednesday, 20 November 2024

Time: 13:00 bis 16:30 Uhr

Meeting Messe Karlsruhe, 2nd floor, Conference Hall, D-76287 Rheinstetten-

Point: Forchheim, Messeallee 1

Dear ladies and gentlemen,

In co-operation with the Association of South German Asparagus and Strawberry Growers (Verband Süddeutscher Spargel- und Erdbeeranbauer e.V.), the Agricultural Office of the Karlsruhe District (Landratsamt Karlsruhe) and the Karlsruhe Regional Council (Regierungspräsidium Karlsruhe) are offering a special forum for producers as part of expoSE – the leading European trade fair for asparagus and berry production. The Asparagus Day, now in its 35th year, offers visitors the opportunity for further training and an exchange of experiences in the form of presentations and discussions.

Asparagus is an important culture for many farms in North Baden. Crop management and marketing require a high level of knowledge about current developments and trial results. Agricultural products are affected to a large extent by changing framework conditions, by trade, by sharply rising costs and also by requirements relating to sustainable production processes. Baden asparagus is a flagship product for the region and enjoys an excellent reputation beyond the region.

Department President Dr Ulrich Kraft from the Karlsruhe Regional Council will open the event. The opening lecture will once again be given by an international guest this year:

Espárrago del sur de España – green asparagus from the south of Spain

Antonio Zamora, manager of an asparagus farm and president of the Centro Sur cooperative as well as vice-president of the I.G.P Espárragos de Huétor Tájar consortium, will present cultivation methods and marketing of green asparagus in the south of Spain with a focus on Andalusia. Espárragos de Huétor Tájar is the cultivated form of a wild asparagus that originated in Granada in the 13th century and was revitalised at the beginning of the 20th century. The lecture and presentation will be held in Spanish and German, with hand-outs available in English.

Asparagus in replant

Dr Sebastian Weinheimer, Head of the Teaching and Experimental Farm for Vegetable Cultivation at the Rhineland-Palatinate Rural Service Centre (Dienstleistungszentrums Ländlicher Raum (DLR) Rheinpfalz), will present the results of the asparagus replication trial that was planted in 2020. The topic is of great importance, as a yield loss of around 20 per cent must be expected for asparagus plants in replant.

Asparagus fly – bean fly – what to do?

In recent years, problems with asparagus flies have increased in the plants. In addition to the loss of effective pesticides, regional weather conditions have also played a role. In the last two years, the bean fly, an almost forgotten pest, has also returned. Dr Ludger Aldenhoff, advisor to the Asparagus and Strawberry Advisory Service (Beratungsdienst Spargel und Erdbeeren BDSE) with many years of experience, will present the current situation, highlight the development cycles of the flies and explain the remaining measures to protect the asparagus rhizome and stems.

Spotlight

In a new format, the asparagus advisor for the Karlsruhe district (Landkreis Karlsruhe), Isabelle Kokula, will briefly summarise the most important news on the topics of ongoing asparagus trials, market innovations, plant protection, seasonal workers and upcoming dates.

Cost explosion

The prices of fertilisers, machinery and other operating costs have risen massively in recent years. The biggest factor for asparagus as a labour-intensive crop is labour costs, which have risen by around 70 percent since the introduction of the minimum wage in 2015. Ralf Große-Dankbar, an asparagus consultant in North Rhine-Westphalia for many years with a focus on business management and price calculation, will present a self-developed cost calculation programme that can be used as a decision-making aid to determine the area on which asparagus cultivation is still worthwhile.

Reduction of pesticides in asparagus cultivation

The Biodiversity Strengthening Act (*Biodiversitätsstärkungsgesetz*) was passed in Baden-Württemberg in July 2020. As an important component, it contains the objective of reducing the use of synthetic chemical pesticides by 40 to 50 per cent by 2030. Against this backdrop, the agricultural administration has established a network of demonstration farms where, in particular, practical methods for reducing the use of pesticides are being developed, researched and established as a discussion and training platform. Tom Terbrüggen, a member of the PPP Reduction Demonstration Farm Network at the Agricultural Technology Centre (LTZ) Augustenberg (Landwirtschaftlichen Technologiezentrum (LTZ) Augustenberg), is working with a practical farm in North Baden to develop ways of reducing plant protection products in asparagus cultivation and will report on the results of the past two years.

For the first time this year, all German-language presentations at the Asparagus Day will also be shown in English.

Angelika Appel, fruit and horticulture officer at the Karlsruhe Regional Council (Regierungspräsidium Karlsruhe), and Isabelle Kokula, asparagus advisor at the Karlsruhe District Office (Landratsamt Karlsruhe), will lead through the programme of the Asparagus Day.

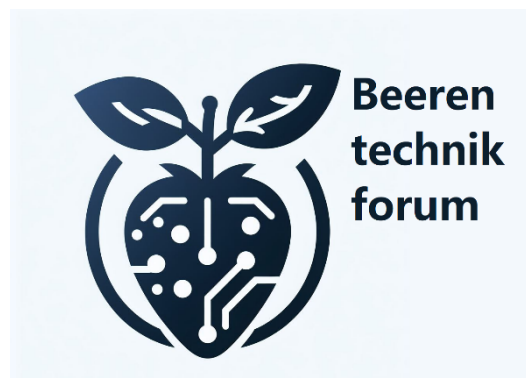
It is not necessary to register for the 35th Asparagus Day, but seating is limited. To visit the Asparagus Day, it is necessary to purchase a trade fair ticket.

Representatives of the press are cordially invited to the event. We would be very pleased to receive an event notice in the run-up to the event.

Yours sincerely

Charlotte Erdmann

Trade fair duo expoSE & expoDirekt from 20 to 21 November 2024 at Messe Karlsruhe Second Berry Technology Forum as part of expoSE 2024



Bruchsal, November 2024, 18. After the first successful Berry Technology Forum, the second edition will take place on Thursday, 21 November 2024, from 10 a.m. to approx. 1.30 p.m. as part of expoSE in the conference hall of the Messe Karlsruhe. The organisers are Marco Joseph and the Verband Süddeutscher Spargel- und Erdbeeranbauer e.V. (VSSE).

In recent years, developments in the cultivation of plants and plant products, especially in the high-tech area of horticulture such as greenhouses and vertical farming, have progressed ever faster. Experts have gathered a lot of experience and tested new technologies. Strawberry growers now have the opportunity to shorten the path to modern cultivation. Marco Joseph will talk about the past, the present and the future.

Hoogendoorn: Data-driven cultivation for better crop growth and energy savings

The IIVO, Hoogendoorn's latest generation climate computer, utilises its predictive capabilities to create the ideal climate conditions for your plants based on a combination of sensor-generated data, weather forecasts and past insights. The system reacts proactively and ensures a consistently stable and uniform growing climate. The algorithms developed by Hoogendoorn make it possible to achieve the desired cultivation strategy with simple settings. This maximises crop yields and quality and ensures the most efficient use of natural resources, resulting in energy savings.

Hexafarms: 'Knowledge instead of gut feeling – harvest forecasts for planning security'

Yield forecasting technology enables growers to predict their production, optimise their workload and increase profits. They receive reliable insights that help them to plan the harvest for the entire season in the best possible way. The forecasts are available to them two weeks in advance with a relevantly high level of accuracy. Hexafarms uses the best cameras available to monitor plants around the clock and provide strawberry growers with an updated forecast every day.

Organifarms: 'The future is now - robots harvesting strawberries.'

In this presentation, you will find out what capabilities modern harvesting robots already have today and what developments can be expected in the future. Organifarms sheds light on the limits of robots in harvesting and shows where cooperation with human harvesters remains indispensable. In view of the worsening labour shortage, it becomes clear why harvesting robots represent a multi-dimensional solution: They are increasingly digitising and automating tasks in the greenhouse, increasing the efficiency and reliability of processes and making a decisive contribution to overcoming the challenges of personnel management in the long term.

EVE Techniek: 'From soil to gutter - what to consider?'

EVE Techniek, a long-standing player in the market for horticultural systems, shows what growers need to consider when taking the step from soil-based strawberry production to gutter systems. This ranges from water management and technical systems to the required water quality. The company will highlight technologies and experiences from previous installations and high-tech greenhouse production that can be utilised to facilitate gutter cultivation and create more value for growers.

Grodan: 'Data-supported irrigation of strawberries'

Grodan presents trials conducted, describes the benefits of indoor propagation and introduces an approach to structured irrigation management in high-tech greenhouses. By utilising controlled environments, propagators and growers can increase strawberry productivity all year round. The benefits of indoor propagation and cultivation in a controlled environment include minimising weather-related risks and diseases, extending the growing season and enabling efficient growing practices. In addition, by implementing precise irrigation strategies, growers can achieve efficient resource utilisation and promote healthy plant growth for higher yields and quality fruit.

The expoSE & expoDirekt 2024

440 exhibitors from 13 nations will be providing information on all aspects of asparagus and berry production and agricultural direct marketing at the expoSE & expoDirekt trade fair duo at Messe Karlsruhe from 20 to 21 November 2024. The organiser of the 28th expoSE – Europe's leading trade fair for asparagus and berry production – and the 13th expoDirekt – Germany's largest trade fair for agricultural direct marketing - is the Verband Süddeutscher Spargel- und Erdbeerbauer e. V. (VSSE), Germany's largest association for asparagus and strawberry growers with around 630 members.

Contacts:

Verband Süddeutscher Spargel - und Erdbeerbauer e.V.
Werner-von-Siemens-Str. 2-6 | Gebäude 5161
D-76646 Bruchsal

Simon Schumacher, Managing Director / Spokesman of the Board
Tel.: +49 (0)7251 3032080
schumacher@expo-se.de

Isabelle Bohnert, Press and Public Relations Officer
Tel.: +49 (0)7251 3032184
bohnert@expo-se.de



Fahrplan zur Messe "expoSE" und "expoDirekt" am 20.11. und 21.11.2024

Karlsruhe Hauptbahnhof (Vorplatz) - Karlsruhe Messe

Mittwoch														
KA Hauptbahnhof (Vorplatz) (Steig C)		8.10	alle	30	Min.	12.10	13.10	14.10	15.10	16.10	alle	30	Min.	18.40
Messe (Messe-Express)		8.27				12.27	13.27	14.27	15.27	16.27				18.57

Donnerstag														
KA Hauptbahnhof (Vorplatz) (Steig C)		8.10	alle	30	Min.	12.10	13.10	14.10	15.10	16.10	16.40	17.10	17.40	
Messe (Messe-Express)		8.27				12.27	13.27	14.27	15.27	16.27	16.57	17.27	17.57	

Fahrten verkehren zur Messe "expoSE" und "expoDirekt" am 20.11. und 21.11.2024
 Weitere Informationen unter www.expo-se.de



Fahrplan zur Messe "expoSE" und "expoDirekt" am 20.11. und 21.11.2024

Karlsruhe Messe - Karlsruhe Hauptbahnhof (Vorplatz)

Mittwoch														
Messe (Messe-Express)		8.30	alle	11.30	12.30	13.30	14.30	15.30	alle	19.00				
Karlsruhe Ebertstraße		8.46	30	11.46	12.46	13.46	14.46	15.46	30	19.16				
Hauptbahnhof (Vorplatz) (Steig C)		8.47	Min.	11.47	12.47	13.47	14.47	15.47	Min.	19.17				

Donnerstag														
Messe (Messe-Express)		8.30	alle	11.30	12.30	13.30	14.30	15.30	alle	18.00				
Karlsruhe Ebertstraße		8.46	30	11.46	12.46	13.46	14.46	15.46	30	18.16				
Hauptbahnhof (Vorplatz) (Steig C)		8.47	Min.	11.47	12.47	13.47	14.47	15.47	Min.	18.17				

Fahrten verkehren zur Messe "expoSE" und "expoDirekt" am 20.11. und 21.11.2024
 Weitere Informationen unter www.expo-se.de