

HIGH LIGHT



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EDITORIAL



It took a bit longer to finish our latest new building. But for us it is important that everything we build will be perfect – be it machines or buildings.

It is important for us that our normal work goes on regardless and without disturbances caused by the construction work. The necessary measures taken guarantee that production periods are adhered to and that our machines can be delivered on time.

In the course of summer the individual departments – switchboard construction, programming, after sales service and the bulk parts storage – have moved to the 1,400 square metre "GRUNWALD Tower". A roofed loading zone was created between the 3-story new building and the assembly halls for the dispatch of the machines. The dispatch space is generous and facilitates the loading of large inline machines.

The name of our latest building – the "GRUNWALD Tower" – says it all. If space is scarce we go up! Yes, in every aspect GRUNWALD is on the up!

The wall paint is still drying at the "GRUNWALD Tower" but we are already planning for the future and the second phase of construction. The construction permit is already secured. Should space become scarce in our assembly halls again we can start with the construction of the fourth assembly hall at any time. In this case the "GRUNWALD Tower" will be expanded by a nine metre assembly hall and a bulk part storage space on top. This new assembly hall will provide even more flexibility in manufacturing double-stacked machines. Finally we will gain an additional 3,500 square metre utility space.

But at the moment we will take a break from our high-building activity. But one thing is certain: the readers of our HIGHLIGHT magazine will be the first to read about the groundbreaking of the second building construction. We will keep you informed!

Yours
Ralf Müller
and the Grunwald team

*Aerial survey of the GRUNWALD company site
(July 2018)*



COVER

Our employee Matthias Keller was at the right place just at the right time during his hiking tour to the Hochgrat in the middle of September 2013 to catch this brilliant view. The picture shows the Hochgrat mountain station with the Säntis mountain in the background.

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Do you still only have analog telephone connections?



The time when analog telephone connections are used is approaching the end. This is already old-fashioned technology. For those who still use analog telephone connections it is time to change to modern, up-to-date digital technology.

What does this mean for you?

Some time ago we informed all our customers who still have an analog modem that our technical support for telephone connections with analog modems will only be available until the end of 2018.

Due to the priority of this issue and in order to maintain good connections to you and your GRUNWALD filling machine after 2018, we would like to take this opportunity to remind you of the urgency to change to a digital modem – the **VPN-Box!**

From the 1st January 2019, only if your GRUNWALD filling machine is connected to the **VPN-Box** can we still

- get access to your GRUNWALD machines
- analyse errors in the PLC
- remove errors and
- make programme modifications.

By mounting a **VPN-Box** you will receive a safe and trouble-free internet connection (VPN)

and you can still use the GRUNWALD service portal.

Do you have questions on this technology?

Please contact
Thomas Sieber
Head of the IT Department
Phone +49 7522 9705 330
thomas.sieber@grunwald-wangen.de
He looks forward to your phone call.

Would you like to have a quotation for a VPN box?

Then please contact our colleague
Sandra Bartl
Sales Department
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Product cancellation by 31st December 2018

We want Grunwald machines to give satisfactory service and to perform reliably for decades. However, sometimes this is tricky when machines are equipped with older servo components.

Servo components are also subject to technical progress and have to be developed further and improved constantly. Therefore previous production of older models was stopped repeatedly in view of their economic feasibility – and the alternative technically advanced servo components were preferred, even though it is convenient to cling to a proven system.

One of our partners who has been supplying us with servo components for many years informed us that the production and supply of the following components of the PacDrive M family including the respective equipment and attachments will be stopped with effect from **31st December 2018:**

- Cx00 controller
- MC-4 servo drives
- iSh integrierte servo drives
- SM motors

The products of the PacDrive M family including the respective equipment and attachments can still be ordered with Grunwald **until 30 November 2018**. From 1st December 2018 prices are expected to rise. **After 31st December 2018 these products will no longer be available.**

After the production of these products has been discontinued the support in terms of repair or spare parts for the products of the PacDrive M family including the respective equipment and

attachments will be maintained until the final product cancellation on **31st December 2024**. The **spare part supply and support will be stopped** by the supplier at this deadline.

We therefore recommend all our customers use the remaining time to order and increase their warehouse stock as soon as possible to make sure that the machine operability is maintained.

Do you have any questions?

Then do not hesitate to contact our service department and please arrange a consultation with

Olaf Acksteiner
Phone +49 7522 9705 800
or
Anne Kamps
Phone +49 7522 9705 810.

OUR TIP!





On everyone's lips: Hummus

A traditional Arab delicacy conquers the European market

Healthy nutrition and vegetarian products are a trend across all sectors of the food industry. This is certainly one reason for the enormous

growth of a product in the last few years which was relatively unknown a few years back: hummus.

Traditionally this puree made of chickpeas was mainly popular in the Middle East. In Europe, hummus could only be bought in special delicatessen stores aimed at vegan customers. This has now changed. Hummus products are now readily available in supermarkets because of the growing popularity for this vegetable-based product.

Some producers of these delicatessen products saw the potential for market growth and took the opportunity, by modernising their production plants or by expanding their product lines. Making a decision to fill and garnish the new hummus products often requires investment in a new fully-automatic rotary-type cup filling machine.



The proper technology is the secret for success

The requirements and wishes of the different supermarket chains and finally those of the consumers are also very different with this product. In order to be in a position to accommodate these changing requirements the filling machine must have a very flexible design. It should be suitable for both different toppings and the handling of different cups.

The 4-lane model type Rotary 20.000 is a highly flexible cup filling machine which meets these numerous requirements. In addition to the main filling station for hummus this machine model contains two free spaces allowing for the connection of different mobile fillers.

To garnish takes practice

Two servo-driven piston Semidos fillers, developed by Grunwald, as well as the dosing machine for topping the product with dry spices and herbs, can be linked to the machine. Depending on the required product distribution these mobile dosing machines are moved to the free spaces of the machines or are exchanged, if required. Therefore, the varying topping of the products can be achieved in a very simple, quick and flexible way.

One particular challenge is the filling of hummus. Attention needs to be paid to the product presentation. All cups need to look similar with a consistent, evenly spread amount of topping in order to meet the consumers high expectations.

Our experts have developed a highly precise filler which has been perfected during long test series optimising it for consistent, practical applications.



Partial view and overall view of 4-lane filling machine GRUNWALD-ROTARY 20.000

In the case of this dosing machine which was specially developed for this application the amount of hummus to be dosed is pre-selected on the operator panel. The amount then dosed is achieved with accuracy.

The 4-lane Rotary 20.000 with its four mobile fillers allows for multiple different toppings and fillings. Thus the hummus product can optionally be filled with herbs and peas, sauce and peas or herbs and sauce.

3 at a time

One special filling application with an interesting product presentation is available by using a specially manufactured format set integrated in the machine solution: the handling of a 3-chamber cup.

This so-called "trio" cup (see photo below) can be filled with 3 different types of hummus due to the 3 chamber fillers mounted.



NEW BUSINESS

Left side, photo at the top:
View into the Rotary 20.000 during the filling of hummus and topping of hummus
Photo below:
Different types of topping



With the ROTARY 20.000 and its mobile dosing machines we offer an extremely flexible machine and also a high-performance machine due to its production speed of more than 10,000 cups/h.

This enables the customers to adapt to changing market requirements at any time.

Dimensions: 2,300 x 2,300 mm
4- to 6-lane versions
Approximately 12,000 – 18,000 cups/h

2 x 3-lane up to 2 x 4-lane versions
Approximately 15,000 – 20,000 cups/h,
depending on product and
packaging material
Dosing range: 10 – 1,000 m

CONTACT

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Rydbergs
Älska Vardagen

Only 3 minutes

The quick product changeover with MOBIFILL

Foodmark.

HISTORY

In 1885 founded the inheritance boy K.K. Heje, from Flå in Geilo, A/S Agra Margarinfabrik on Grünerløkka in Oslo. Today's main office is located at the same address, and the company is still led by the family Heje.

Today Foodmark AB produces and markets several of Sweden's most famous and beloved foods in the categories salads, sauces, dressings, as well as mash and soft cheese. Their ambition is to inspire simple and good food experiences, and they do this with the help of their brands Rydbergs, Lohmanders, Fjällbrynt, Delikatessfabrikken, Jensen's, K-Salat and Mills.

The products are manufactured mainly in Spånga, Östersund, Norrköping and Gotland - but also in Vidsel, Norway and Denmark. The annual output is about 20,000 tons of food sold to both grocery and large-scale households.

In 2017 220 employees traded over 700 million euros. In March 2018, the brand new production facility in Albyberg in Haninge Municipality has been ready.

In autumn last year GRUNWALD was chosen as preferred supplier for a new cupfiller FOODLINER 3.000/2x2-lane machine for the existing plant in Gotland. The line was installed in April this year.

The new cup filler GRUNWALD-FOODLINER 3.000

Due to the reorganisation of the production in connection with establishment of the new production site in Albyberg, the requirements for Gotland and the new salads filler was to have focus on a high flexible machine with the possibility to have easy changeover for different formats.

The target in this project was to supply "high flexibility and highly capacity" with quick changing from one format to another as well as easy and fast changeover from one product to another.

To meet these demands, the cup filler FOODLINER 3.000 was supplied with special features such as:

- two format machine
i.e. changing from one cup format to another within 5 minutes
- extended cup feed storage magazine
- automatic slide magazines for cups, giving short changeover time.

On the filling side the machine was equipped with:

- two MOBIFILL filling systems and
- agitator in the hopper of the MOBIFILL

The solution: exchanging the dosing system

The trick is: with these two MOBIFILL systems one complete dosing system is exchanged for the next, already cleaned and filled dosing system in case of a product change. Thus the product change can be carried out in a very easy, extremely comfortable and rapid way within a realistic minimum 3 minute range. In addition the exchange of the complete dosing system with all contact parts guarantees an allergen-free production.

The FOODLINER is a fully servo driven machine and by using the most modern servo technology we have made it possible to achieve a 10 % higher output speed compared to what was expected on normal mechanical machines.

Furthermore the machine is driven by individual servos for each lane in such a way that the machine is linked up to an external Check Weighing Unit giving "Feedback" signals to the GRUNWALD machine for automatic adjustment of the product weight according to target.

For several years GRUNWALD have successfully installed machines for mayonnaise-based Salads to several well know companies in the Scandinavian and Northern part of Europe.



e2rad
mobilität erleben

8 days "Le Tour d'Avignon"

920 kilometres and about 8,500 meters difference in altitude within 8 days – this is the result of this year's "e2rad-tour" under the slogan "Le Tour d'Avignon".

Seven students and their course administrator Prof. Dr.-Ing. Jürgen Brath as well as eight bike-enthusiastic citizens from Lake Constance were on a trip to Avignon by pedelec (e-bike up to 25 km/h).

As always, the fun of biking was combined with some useful activities during the event, which has taken place eight times. The students collected performance data by means of measuring devices affixed to their bikes. This gave them a broad spectrum of measuring data which was analysed and evaluated.

Apart from the assessment of the data collected this year's project also focuses on another aspect - which grade of support of the e-bike is used during biking.

From 22 to 29 April this 8th tour extended from Friedrichshafen along the river Rhine and the river Aare via Geneva to the Olympic sites Albertville and Grenoble up to Avignon. The Queen's stage came at the very end: the legendary summit of Mont Ventoux. With an

ascent of 1,300 meters altitude at a stretch this summit counts among the most well-known rises of the Tour de France. The sun was shining brilliantly but just during this stage there was rain and cold gusts of wind with sub-zero temperatures.

It was a tour through a beautiful landscape. Daily routes of up to 145 kilometers long and 2,000 meters in altitude were a challenge for the stamina of the participants despite an electric drive.

But one factor was a full success indeed: The tour proved that sporty and less active people, young and old can master and enjoy such a challenge.

The stages of the 8th "e2bike tour":

Start	Finish	km
Friedrichshafen	Waldshut-Tiengen	123
Waldshut-Tiengen	Nidau	128
Nidau	Nyon	145
Nyon	Albertville	126
Albertville	Grenoble	85
Grenoble	Gap	108
Gap	Sault	110
Sault	Avignon	95

SPONSORING

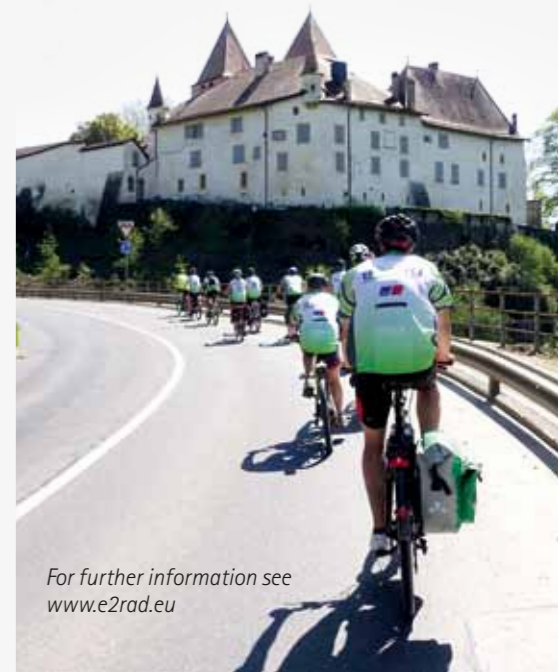


"e2rad" is a university project at the campus Friedrichshafen initiated by the professors of the DHBW Ravensburg (dual high school Baden-Württemberg). In their lecture "Applied Project Management" the "e2rad" has been expanded and continued primarily by students of the study course "Industrial Engineering and Management" course.

The basis for the "e2rad" project is the question that many e-bike users ask - whether the battery will last long enough for the planned stage. The scientific and long-term aim of this project is to give a consolidated statement about the electric energy required for a pedelec (e-bike up to 25 km/h) for a specific route stage.

The "e2rad" is a complex project for the future economic engineers. As well as the scientific aspects, the planning of the tour and the individual stages, searching for sponsors as well as booking hotels are all important parts of their tasks.

Our student Philipp Sohler was part of this project and reports about this year's "e2rad" tour. GRUNWALD donated 500 € for this project.



For further information see
www.e2rad.eu

CONTACT

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EXHIBITION PREVIEW

We will take part in several exhibitions in Germany and Europe this year and next! At these exhibitions we will be pleased to inform you about new machinery and technical developments "Made by GRUNWALD".



FachPack

GRUNWALD stand hall 2, stand no. 2-402

25 - 27 September 2018

Nuremberg, Germany

We are happy to inform you that full-event tickets amounting to EUR 50,00 are available for you free of charge (with direct access to the exhibition - without waiting time!). Please register **in advance** by using the **E-Code B375660** under www.fachpack.de/en/visitors/voucher.



GRUNWALD stand no. C01:03

Gothenburg, Sweden

23 - 26 October 2018

www.scanpack.se

FOODTECH

PROCESSING & PACKAGING | 13 - 15 NOVEMBER 2018

GRUNWALD stand no. M 9742

Herning, Denmark

13 - 15 November 2018

www.foodtech.dk



GRUNWALD stand no. 7 D 236

26. - 29. November 2018

Paris, Frankreich

www.all4pack.com



We are looking forward to your visit!

Frankfurt, Germany

04 - 09 May 2019

www.iffa.messefrankfurt.com