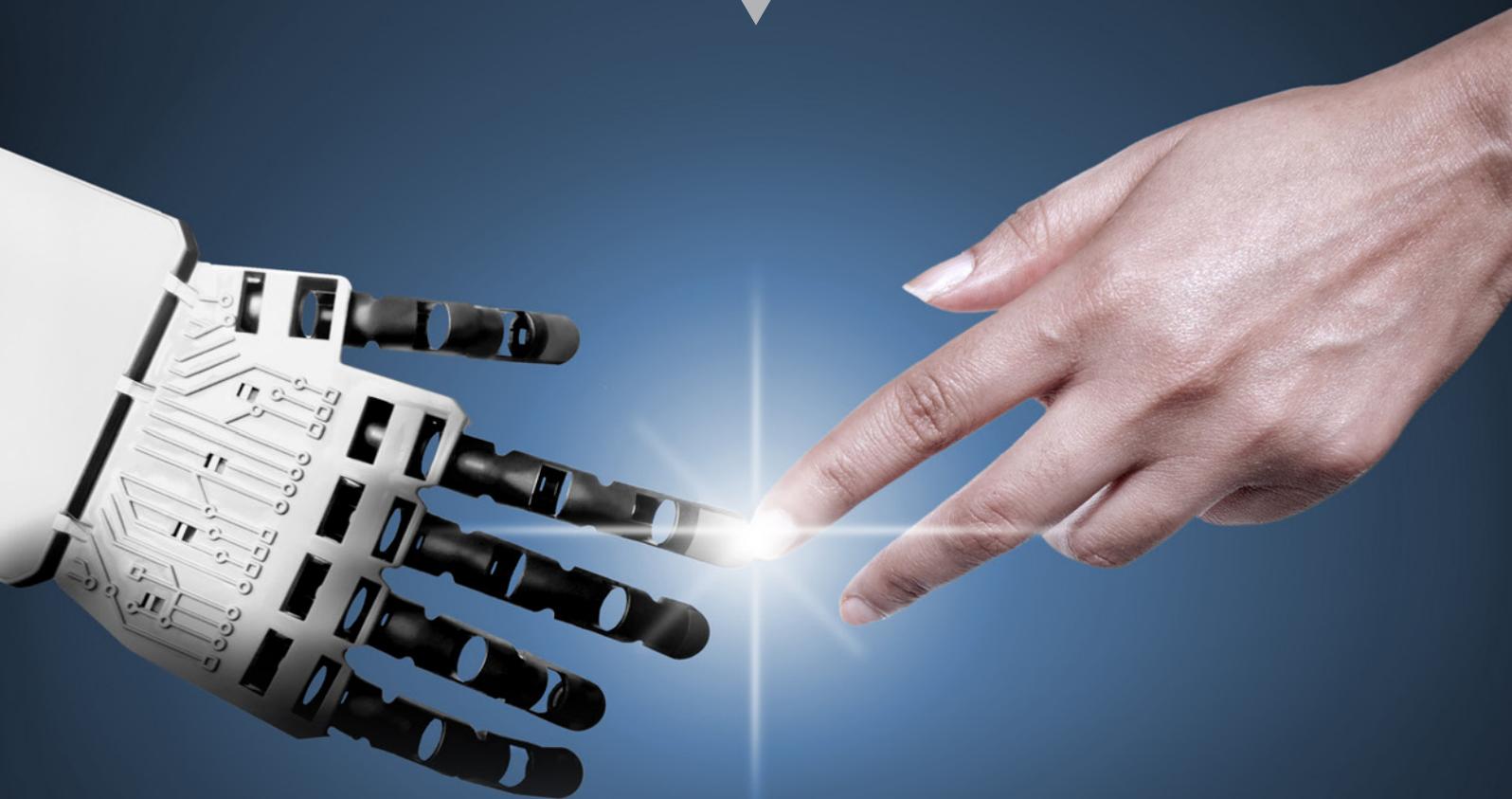


PRISMA

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SMART PRODUCTION

COMBINING ANALOGUE AND DIGITAL SYSTEMS

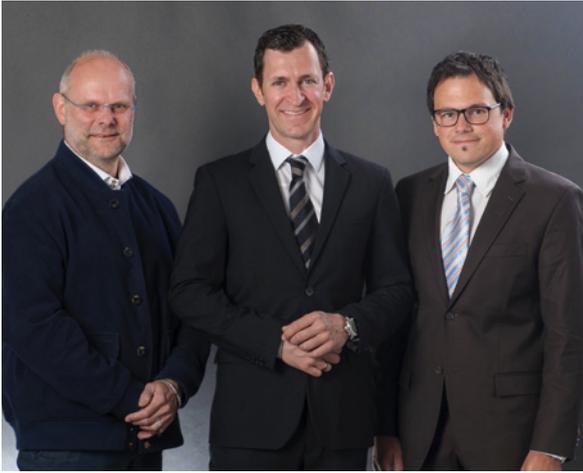
▼ **WILD**

▼ **PHOTONIC**

Smart Farming – WILD's first steps in a new industry.

Photonic launches a new high-power LED ring light.

WILD Technologies on a journey into sound.



Jean-Marc David,
Production Manager WILD Electronics

Robert Lackner,
Medical Technology Production Manager

Mario Pfösti,
Optical Technology Production Manager

A MAGICAL MIX OF DIGITAL AND ANALOGUE SYSTEMS.

Smart Factory, industrial internet, or the often-cited Industry 4.0 – these and many other terms describe a fundamental shift in production. It essentially involves the structuring, planning and execution of production processes using state-of-the-art information technology. But do „smart“ systems have to be digital? Not necessarily. WILD has demonstrated this using the example of its new production system, which has been completely reworked to operate even more proactively and to manufacture more flexibly and efficiently, thus further enhancing the customers' competitiveness. And yet this system has analogue and digital solutions intentionally working side by side. Digitalisation is employed wherever it can yield benefits. The latest example of this is the integration of the production system in the WILD Skills app. As a result, WILD Group workers now also have smartphone access to all strategies, principles, and methods relating to production. Analogue solutions, however, are often more flexible and quicker to implement on shop floor level. For more information on how WILD combines the two approaches, go to pages 4-5.

Another extremely „smart“ system is the optical weighing instrument made by our new customer WUGGL. WILD is currently lending a hand to the startup in revolutionising farming by allowing for animals to be weighed without any stress for the first time. There's also news from the WILD Group: Photonic is about to launch a new high-power ring light for microscopy and WILD Technologies is now also manufacturing highly-sensitive membranes, the centrepiece of various high-end headphones, for AKG.

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START-UPS

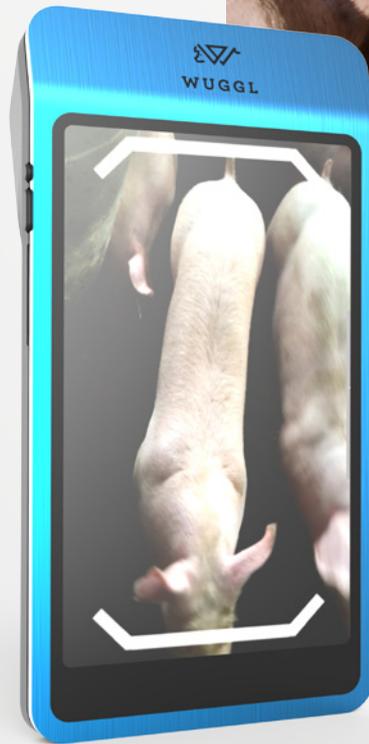
SMART FARMING WITH WUGGL.

WILD

The quickest and easiest way to weigh pigs is to “wuggle” them.

In agriculture, efficiency is not the only factor that carries a certain weight. A healthy balance between efficiency and animal well-being must be established in order to gain the consumers' trust. The innovative optical weighing system by startup WUGGL kills both these “birds” with one stone. With the development of WUGGL One, entrepreneurs Marcus Schweinzger and Dr. Alois Temmel have solved a weighty problem: for a pig farmer to achieve the full sale price of an animal, the latter must weigh between around 110 and 120 kg. The methods currently applied, such as estimation, tapeline measurement, or mechanical weighing have several disadvantages. They are inconvenient, labour-intensive and stressful for the animals.

The solution approach by WUGGL is one that could revolutionise the industry: using optical body measurement for weighing. The WUGGL One mobile measurement system, which looks like a smartphone, is equipped with high-precision cameras and can calculate the weight of a pig with a single click. The measurement is simple, contactless, and can be taken from any angle. Measurement accuracy is 98.5%. WUGGL One is a type of 3D scanner. “Similar to the human eye, two cameras shoot two images from different angles. This collects 3D information on the size of the pig. In addition, a laser-powered projector projects a non-periodic dot matrix onto the object which represents the anchor points for the camera. This makes the principle of photogrammetry even more robust”, explains WILD Project Manager Dr. Johannes Macher.



The collaboration between the young startup and WILD was established through the INITS business incubator in Vienna. „The experience in the development and manufacturing of opto-mechanical and medical devices was the main argument which convinced us that WILD is the ideal partner for the implementation of our product“, explains WUGGL CEO Marcus Schweinzger. Due to its profound understanding of the product, the systems partner has even been involved in the development of the device. “Thanks to its many years of expertise in the field, WILD made a comprehensive contribution to the mechanical construction, which was done in coordination between the device designers and the electronics developers. Together we managed to develop a casing for a handy measuring instrument with complex camera technology and highly integrated electronics which meets the demanding requirements for use in the stable. At the same time, the focus was always on achieving efficient serial production of this measuring device”, adds Schweinzger, who is extremely satisfied with the current collaboration.



PRODUCTION

NETWORKED PRODUCTION ENVIRONMENT.

WILD PHOTONIC

Digitalisation is inexorably marching ahead, especially in the fields of logistics and production. Find out how WILD has seized this opportunity.

Though tablets and smartphones have long become part of our daily lives, these technologies are far from ubiquitous in industrial environments. Many of the ideas currently discussed in connection with the networking of machinery, services and humans throughout the entire production chain are still a long way off. At WILD, however, "smart production" is already fit for implementation.

The systems partner has already prepared its production system, that is, all strategies, principles and methods relating to production, as well as its entire supply chain for the dynamic market requirements of the future.

Transparency creates clarity

WILD's new production system demonstrates how to best combine manufacturing with state-of-the-art information and communication technology. The essential feature of the SMART PRODUCTION WILD are real-time production mirror images. All staff involved are continuously informed about the overall process time and can react immediately to any deviations. At just one glance, you can take stock of the situation at the workplace and check for any difficulties. This is all made visible through a board and colour markings. The advantage here lies in the rationality and simplicity of the system and the



fact that the staff themselves manage the board. Such transparency entails a series of important benefits. „If all workers involved are constantly aware of the productivity and schedule status of an order, it is possible to react to any deviations much more quickly. The expectations are fully clear and this, in turn, improves collaboration. The valuable time previously lost in controlling an order can now be used more effectively“, stresses Production Manager Robert Lackner .

Combining analogue and digital

“For us, smart production does not necessarily imply that we have to implement a digital solution. The system in place must be up to the task and the cost-benefit ratio must be right. This is why you will find digital and analogue solutions working side by side in the new WILD production system“, explains Jean-Marc David, Head of Production at WILD Electronics.

The integration of the reworked system into the existing WILD Skills app was an important step towards digitalisation. This makes it accessible from any customary smartphone. “Implementing the solution as an app is

setting a new precedent. It literally puts SMART PRODUCTION WILD in every pocket and any adjustments are immediately available to everyone“, David adds.

Act – don’t react

Supply chain management is another area where WILD implements consistent networking of information and material flows throughout the entire company. By tailoring the planning and procurement process it offers its customers, the systems partner puts smart logistics into practice. One of the essential features of this system is the new set of agreements: there is now a shift from predefined and rigid framework contracts to flexible, monthly agreements. “Customers grant us access to their own forecast and planned sales volumes. In addition, we agree with them on various release periods. The advantage lies in greater agility throughout the entire supply chain due to the increased transparency and the timely provision of information. Besides, low volumes of ordered and manufactured products help minimise the risk of over- or undersupply. This is particularly significant in the case of products with strong demand fluctuations or those most likely to undergo modifications“, explains Horst Schöffmann, SCM Officer at WILD Group.

The integral component of this pioneer project is a Vendor Managed Inventory software solution specially developed for WILD. As a result, the customer’s forecast automatically becomes visible to the supplier, allowing them to react immediately. Pricing is also increasingly determined on the basis of predefined production batches. This significantly reduces planning uncertainty and risk across the entire supply chain. Moreover, it strengthens supply security and, in many cases, even helps reduce costs.

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➤ PRODUCTION ➤ DEVELOPMENT

POWERFUL.

▼ PHOTONIC

In June 2017, Photonic will be launching a new high power LED ring light that can be smoothly integrated in the workflow of stereoscopic microscopes.

This is an LED ring light with a control knob that suits workflows at the microscope like no other. Ergonomics and flexibility were the primary focus during the development of Photonic's new high-power ring light. The new product's main feature is the integration of the control unit in the ring light itself, making it much easier to use. "Conventional ring lights usually have a separate control unit for parameters such as brightness or segment control. This results in more tangled wires and a need for additional space at the workplace. Besides, such units require that you take your hand off the microscope to operate them. All that becomes obsolete with our new, brilliantly-designed, high-power ring light", explains Photonic Sales & Product Manager Stefan Zotter.

An additional advantage is the possibility to change the position of the lens and adjust the ideal brightness to small and large working distances alike. Existing systems are optimised only for a single working distance. Moreover, there will also be a version with Bluetooth and a USB connection. This will allow for the homogeneous, high-power ring light to be easily integrated into an industry 4.0 workplace.

New High Power LED Ring Light for Microscopy

- Highest brightness with homogeneous illumination
- Continuous dimming from 1-100% (flicker-free)
- Aluminum body with modern design
- High-quality scratchproof micro-effect paint
- Adjustable working distance

Benefit focused on usability

- Control integrated in the ring light itself - No additional cables and controller boards needed
- Auto rotation with adjustable speed
- Memory functions for reproducible settings
- Remote control via USB, Bluetooth and footswitch
- Individual control of segments
- Left and right hand operation mode

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➤ PRODUCTION

FOR KEEN-EARED AUDIO ENTHUSIASTS.

▼ WILD

The insides of headphones play host to many a technological innovation but the true centrepiece is the membrane. From now on WILD Technologies will be producing them for AKG.

The sound quality of headphones is easy to explain in physical terms: a sound is generated when waves strike a membrane and cause it to oscillate. This ultra-thin film, however, must perform almost artistic masterpieces: the edges of the membrane are meant to oscillate with an elastic movement but the centre should follow a piston-like movement. AKG has managed this balancing act using the "Varimotion" system and developed a special membrane whose thickness varies along its diameter. Oscillation properties are improved as a result and the impulse behaviour is significantly more precise than with conventional membranes. Because the manufacturing of this "centrepiece" requires utmost precision, AKG has entrusted its long-standing partner WILD Technologies with the task of making it. "We are very happy to be given the opportunity to produce these highly-sensitive components for AKG", Managing Director Helmut Wurm emphasises.

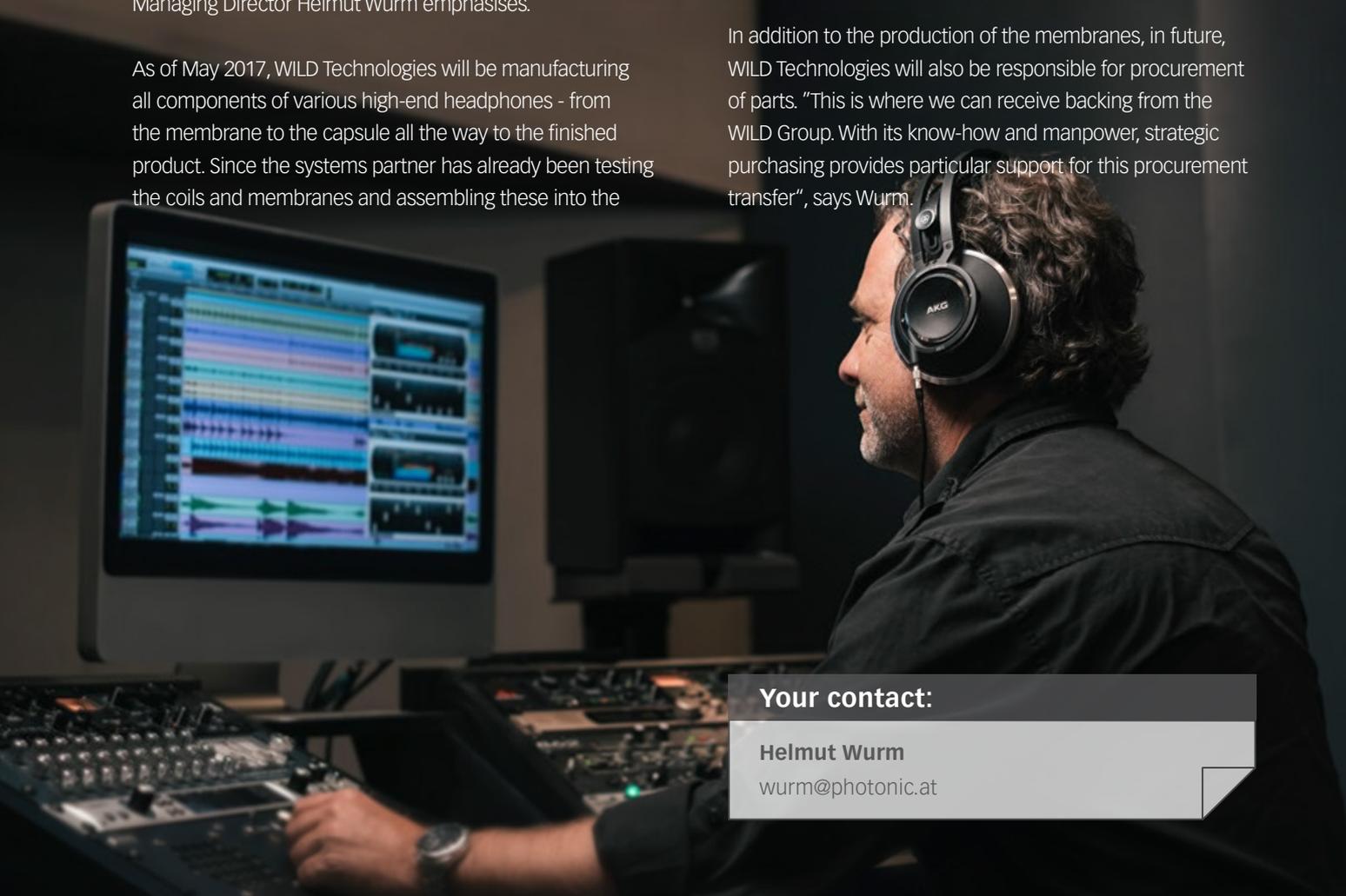
As of May 2017, WILD Technologies will be manufacturing all components of various high-end headphones - from the membrane to the capsule all the way to the finished product. Since the systems partner has already been testing the coils and membranes and assembling these into the

headphones for quite some time, it is best suited to produce these completely. "We are aware of the high requirements for these components. Processing must be done within a narrow time frame since the "naked" membrane has a durability of only a few days" Helmut Wurm explains. WILD Technologies is currently engaged in intensive preparations to ensure maximum quality for this new order. "Our systems operators and support staff are now attending training sessions at AKG, where they are receiving precise instructions. After all, the production of the membranes requires a higher level of automation for the facilities. This makes a professional monitoring of serial production even more essential, so as to react to any deviations in time. Moreover, we need to measure the resonance of the membranes for each membrane type", says Wurm on the scope of the services provided.

In addition to the production of the membranes, in future, WILD Technologies will also be responsible for procurement of parts. "This is where we can receive backing from the WILD Group. With its know-how and manpower, strategic purchasing provides particular support for this procurement transfer", says Wurm.

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➤ INTERN

ON THE SAFE SIDE.

▼ WILD

Medical technology customers need not worry. And no extra effort will be required by those who don't have to meet the ISO 13485. WILD's QM system perfectly covers both requirements.

A large number of minor changes is bringing the ISO 13485:2016 standard very close to the American body of rules. This may present a certain challenge to some companies. Not so for WILD: the systems partner implemented a QM system in accordance with ISO 9001 back in 1990 and went on to develop it even further in line with ISO 13485 in 2004. Based on this experience, the QM system was expanded again 7 years ago in accordance with QSR (Quality Systems Regulations) standards. Moreover, WILD has been registered as an FDA Contract Manufacturer ever since. The company now benefits from this competitive edge. "We are currently at a very high level since we have already implemented the requirements from QSR for a number of projects", says Thomas Waldner, Quality Manager of the WILD Group. The objective is now not only to comply with this body of rules but also to generate added

value. "The objective is to remain abreast of things and implement the requirements in the best possible manner. The application of new medical technology standards is contributing significantly toward this end and will help raise us to the next quality level", Waldner assures.

Customers of the WILD Group who are not affected by the updated standard - that is, customers from areas other than medical technology - need not fear any disadvantages. "As part of the implementation of the new ISO 13485:2016, we are also applying the requirements of the new ISO 9001:2015 standard. We have taken the necessary process precautions to tailor customised packages for our customers from different industries which will not generate any additional costs for them", Waldner promises.

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The WILD Group

The WILD Group comprises the WILD brands based in Völkermarkt, Wernberg (Austria) and Trnava (Slovakia), and the Vienna-based Photonic. We are your reliable partner on a path of continuous growth. We generate an annual group turnover of 95 million euros with a staff of 400 highly qualified workers and employees.