



SIKORA EXTRA

Your magazine for Inspection | Sorting | Analysis

SIKORA at wire 2022

04

Clever sorting with the
PURITY SCANNER ADVANCED

08



Dear readers,

The new SIKORA EXTRA is here! In this issue we provide you with exciting topics around quality control and process optimization in the plastics industry. Learn for example how the PURITY SCANNER ADVANCED differs from other online inspection and sorting systems. In addition, we give an overview of our systems for offline inspection and analysis. Furthermore we would like to introduce our SIKORA CARE PACKAGE in the service area and report about our international growth.

Dr. Christian Frank
CEO SIKORA AG

Maybe you have considered to stop by at the wire 2022? From June 20 to 24, 2022, the wire & cable trade fair opens its doors to the international expert audience. We will also be on site in Düsseldorf and cordially invite you to visit us at our booth A41 in hall 9. There we will present our PURITY SCANNER ADVANCED and the PURITY CONCEPT X live on site.

We hope you enjoy your visit!

Sincerely,

Dr. Jörg Wissdorf
Executive Board Member SIKORA AG



CONTENT

- 04 SIKORA at wire 2022
- 06 How to ensure the quality of your raw materials
- 07 SIKORA CARE PACKAGE
- 08 Clever sorting with the PURITY SCANNER ADVANCED
- 10 SIKORA subsidiaries – new offices
- 11 Raffle





Turning ideas into innovations and products that achieve the highest quality, sustainability and cost efficiency in the plastics and wire & cable industry is SIKORA's claim. The company underlines this at the wire with the "Solution Corner". Customers are invited to personally discuss their ideas, visions and technical requirements for quality control systems for the future of measuring technology with SIKORA experts in a creative atmosphere.

SIKORA AT WIRE 2022

It was worth the wait for these highlights

Finally, the time has come again. After four years without wire, the leading trade fair in the wire & cable sector is back. And SIKORA will of course be there.

For the comeback we have thought up some very special highlights for you, which you can experience at our booth A41 in hall 9.



For the random sample inspection of plastic pellets or test plates, SIKORA presents the PURITY CONCEPT X for X-ray analysis at the wire. Within a few seconds the test material is inspected for metal contamination. Impurities are automatically detected, visualized and statistically evaluated.

The purity of the plastic material is crucial for the quality of the end product. Therefore, SIKORA presents the PURITY SCANNER ADVANCED for the online inspection and sorting of pellets such as XLPE and PP at the wire. By using the system, impurities are detected and sorted out automatically – material costs are effectively saved. In addition to economic advantages, the environment can be protected at the same time through reduced waste volumes.

Maintaining the availability and efficiency of the SIKORA systems at the customer's site has top priority for SIKORA. At the wire, the SIKORA Service team presents the entire range of its service portfolio. From installation and commissioning of the devices to consulting and training, always matching the individual customer requirements.

HOW TO ENSURE THE QUALITY OF YOUR RAW MATERIALS

Quick and easy sampling with the PURITY CONCEPT Systems

The plastics industry is characterized by the highest quality requirements for the material and the products. Plastics manufacturers and processors therefore inspect individual batches or entire product lines for optical and/or functional defects, depending on the polymer's area of application. In this context, sample testings are gaining more and more importance.

Depending on the application, SIKORA's PURITY CONCEPT Systems can be used for process control, offline sample analysis or incoming goods inspection. The material to be inspected is distributed on a sample tray and moved through the inspection area. There it is inspected within seconds by means of a color camera (PURITY CONCEPT V) or X-ray camera (PURITY CONCEPT X).

With the integrated analysis software, contamination from a size of 50 µm (2 mil) are auto-

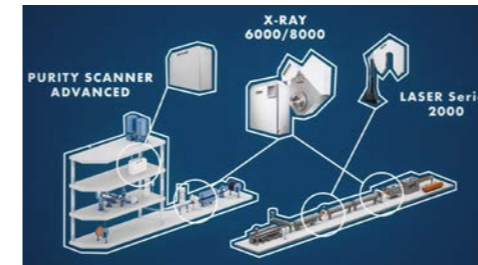
matically detected, visualized and evaluated. A projector is used to color-mark contaminated material on the sample tray and also highlight it in the camera image. A clear assignment of the contamination is possible at any time and facilitates the removal, for example for further examinations in the laboratory. The software also includes an image gallery of detected contamination as well as extensive statistics and report functions. In addition to individual tests, series tests can also be carried out and are included in an overall evaluation.

PURITY CONCEPT Systems also provide a test certificate with all information on the quality of the tested material and a summary of the test results. They thus create the prerequisite for material release and delivery to the customer. Therefore, the systems significantly contribute to quality control and process optimization.

SIKORA CARE PACKAGE – WE ARE HERE FOR YOU

Tailor-made maintenance and calibration

SIKORA offers many different devices and technologies to ensure the product quality:



X-ray technology of the X-RAY 8000 and X-RAY 6000, laser technology of the LASER Series 2000 or optical inspection cameras of the PURITY SCANNER ADVANCED and many more.

SIKORA devices are in use for many years and still measure, control and inspect as accurately as on the day of delivery. A calibration (in the sense of alignment/adjustment) to maintain the measuring accuracy is not necessary for SIKORA devices. However, certain international norms and customer requirements make regular calibrations necessary. For exactly this purpose SIKORA offers the CARE PACKAGE:



SIKORA calibrates measuring, control and inspection devices in operation regularly – according to internationally applicable standards. On site directly in the production facility. Including certification according to DIN EN ISO 9001 specifications and including all necessary and certified test equipment provided by the SIKORA Service Engineer.

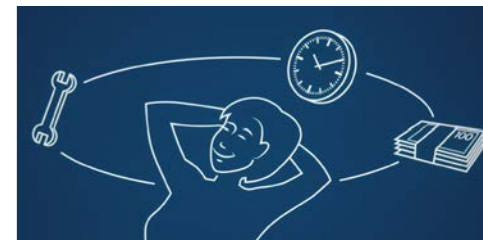
The operational readiness of the complex technologies is significantly increased by regular maintenance. Therefore, professional maintenance is an integral part of the calibration by SIKORA Engineers.

Customers thus benefit from regular maintenance and professional replacement of wear parts. Any abnormalities are immediately repaired by the SIKORA Service Specialists.



SIKORA maintenance programs stand for a constantly high device availability. Appointments for calibrations and maintenance can also be booked without contractual commitment. Consultations and maintenance programs are individually tailored to the devices and needs of the customers. For regular use of this service, SIKORA recommends the discounted maintenance programs with a term of three or five years.

Save effort, time and money!



For more information about our SIKORA CARE PACKAGE please contact your SIKORA Service Representative directly.

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The SIKORA CARE PACKAGE – all-round protection. More in our video.

Video link

PURITY CONCEPT V

Inspection and analysis of pellets, flakes, test plates

Color camera

Black specks, white spots, color contamination and discoloration on the surface of colored and translucent material and within transparent material



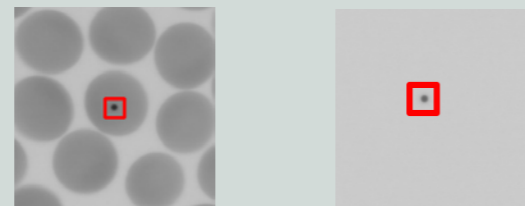
Result: Visually flawless products without visual defects

PURITY CONCEPT X

Inspection and analysis of pellets, flakes, test plates

X-ray technology

Metallic impurities on the surface and in the material



Granulate

Films

Result: Functionally flawless end products (e.g. metal-free cable insulation)

CLEVER SORTING WITH THE PURITY SCANNER ADVANCED

Inline inspection and sorting on a new level

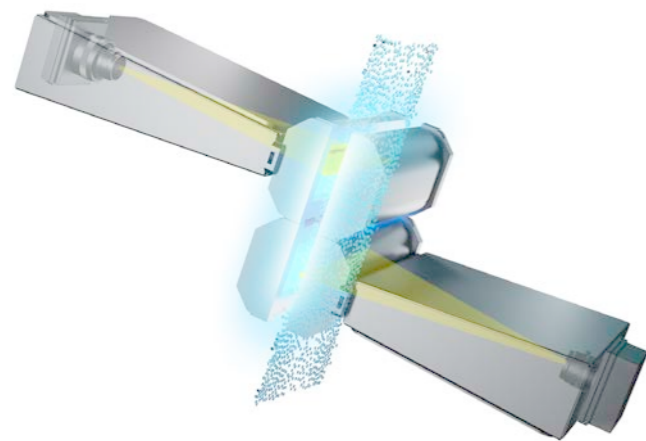
During the online quality control of plastic pellets, SIKORA's PURITY SCANNER ADVANCED ensures that only pure material enters the further production process. Even smallest, critical contamination are reliably detected and automatically sorted out. Both the detection and the ejection behavior of contaminated pellets are perfectly coordinated.

3 cameras for an even higher detection rate

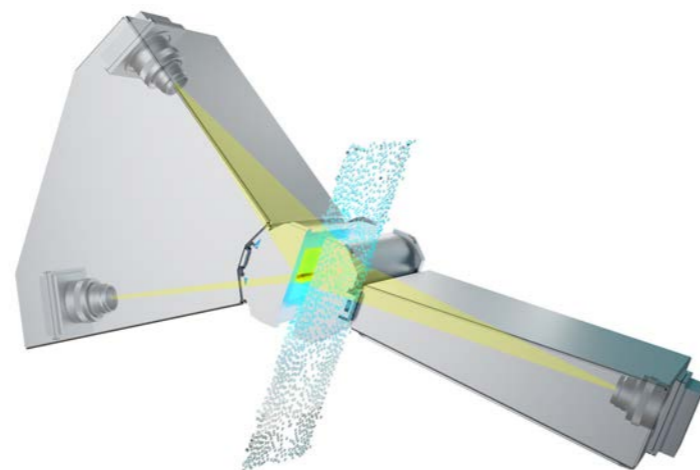
Thanks to the modular system design of the PURITY SCANNER ADVANCED, different camera types can be used depending on the material being inspected. In addition to optical cameras, which detect black specks and discolorations, an X-ray camera can be installed to detect metallic contamination. Common systems on the market have a maximum of 2 optical cameras.



However, these quickly reach their limits due to a relatively low coverage as soon as the contamination are outside the field of view of the installed cameras. Therefore, SIKORA offers its customers the possibility to have a third optical camera installed, if required. This camera setting offers a significantly higher detection rate, so that more contamination are detected. This is especially advantageous when the PURITY SCANNER ADVANCED is integrated directly into the production line as an inline system and multiple sorting with a typical 2-camera system is not possible.



The PURITY SCANNER ADVANCED can be equipped with two or three optical cameras as required

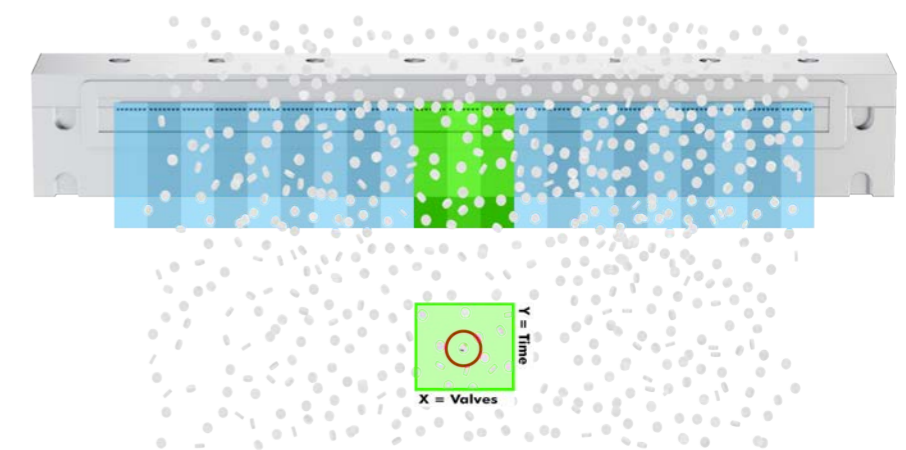
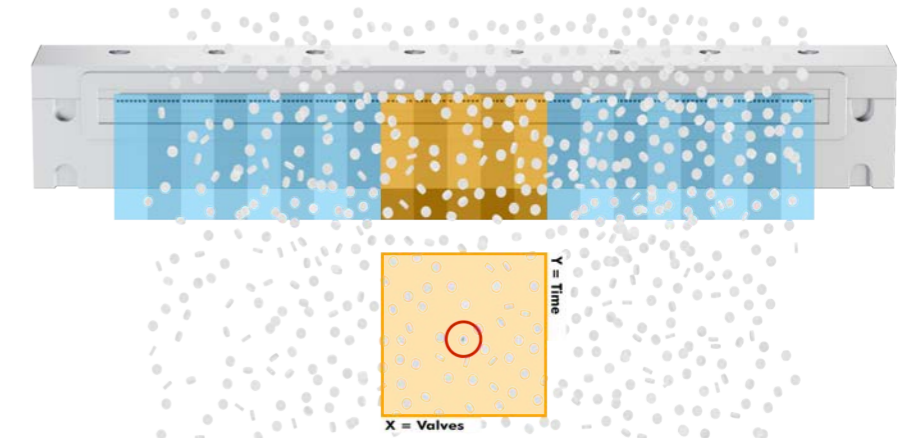


Reducing bycatch intelligently

The PURITY SCANNER ADVANCED automatically sorts out the detected contamination via a blow-out unit. According to the higher detection rate, more detected contaminants are detected and sorted out with a 3-camera setting. Against this background, the optimization of the by-catch becomes more important. Therefore, SIKORA has developed the feature of "hybrid blow-out". The customer can define in advance which impurities in the material represent uncritical contaminations and select a smaller blow-out unit for these, so that their by-catch is reduced. These include, for example, small, light-colored black specks that frequently occur in the material. On the other hand, a larger blow-out unit is specified for critical contaminants – for example, metal contaminants that can impair the functionality of the subsequent end product.

An investment that pays off every day

Thanks to the intelligent interaction of the highest possible detection and hybrid blow-out, the PURITY SCANNER ADVANCED guarantees safe material of the highest quality. This further optimizes production processes and the reduced by-catch contributes to cost-efficient and sustainable production.



Bycatch in the case of non-critical contamination, e.g. small black specks (green), and in the case of critical contamination, e.g. metal contamination (orange).

SIKORA SUBSIDIARIES

New offices – more capacities

At SIKORA, approximately 350 employees give their best every day to offer customers and business partners optimal solutions. With 15 international subsidiaries, SIKORA is at home all over the world and the company continues to grow. In 2021 and 2022, four SIKORA subsidiaries moved into new offices.

SIKORA FRANCE already made a start at the beginning of 2021. The new office in Les Ulis offers on a total of 74 m² [88.5 yd²] sufficient space for the French team as well as storage space to always be able to offer customers the fastest possible solutions. Just 20 minutes by car to the nearest airport allow quick customer visits.

In June 2021, SIKORA BRAZIL moved into 81 m² [96.9 yd²] office and work space in São Paulo – storage space for service components and devices as well as a small service workshop included. Two airports nearby connect SIKORA BRAZIL with the rest of the world.

SIKORA MEXICO and SIKORA JAPAN used December 2021 to move into their new work places. 104 m² [124.4 yd²] in Mexico and 67 m² [80.1 yd²] in Japan will be used as warehouse, office and service space. In Japan, the direct connection to a high-speed train station (Shinkansen) guarantees the mobility of the colleagues and also offers customers the quick and easy possibility to visit the SIKORA JAPAN office in Kanagawa. Thanks to the immediate proximity to one of the main roads, the Mexican subsidiary in Queretaro is also always flexible for customer inquiries.

2022 started with the relocation of the largest SIKORA subsidiary. SIKORA CHINA moved into its new premises in Fuzhou in March and now operates on 1,500 m² [1,794 yd²] – including various offices, a large service area as well as a 120 m² [143.5 yd²] showroom. Here, visitors have the opportunity to take a walk through SIKORA's history. A gallery with all important milestones of the company leads into the showroom, which offers space for all SIKORA devices.

All addresses and further contact information of the SIKORA subsidiaries can be found at www.sikora.net/contact.



Welcome to SIKORA CHINA's showroom

RAFFLE

1. Which online inspection system will SIKORA show at the wire?

2. Which camera is the PURITY CONCEPT V equipped with?

3. Which feature has SIKORA recently developed for the PURITY SCANNER ADVANCED?

4. Which durations does SIKORA offer for maintenance programs?

5. How many subsidiaries does SIKORA have?

Your contact details will not be passed on to third parties. Each correct answer takes part in the raffle. SIKORA employees and their relatives are excluded from participation. Each player can only participate once. We value the first email, all subsequent emails will be considered invalid. The legal process is excluded.

GOOD LUCK!

Be informed!

SIKORA offers a variety of different devices and systems for measurement, control, inspection, sorting and analysis.

How well do you know SIKORA? Do you know the answers to our questions?




Little hint: You will find all answers in this SIKORA EXTRA issue.

Send us your solution by e-mail until 31.07.2022 to: extra@sikora.net

You can win one of three Troika World stroller sets.



NEXT EVENTS

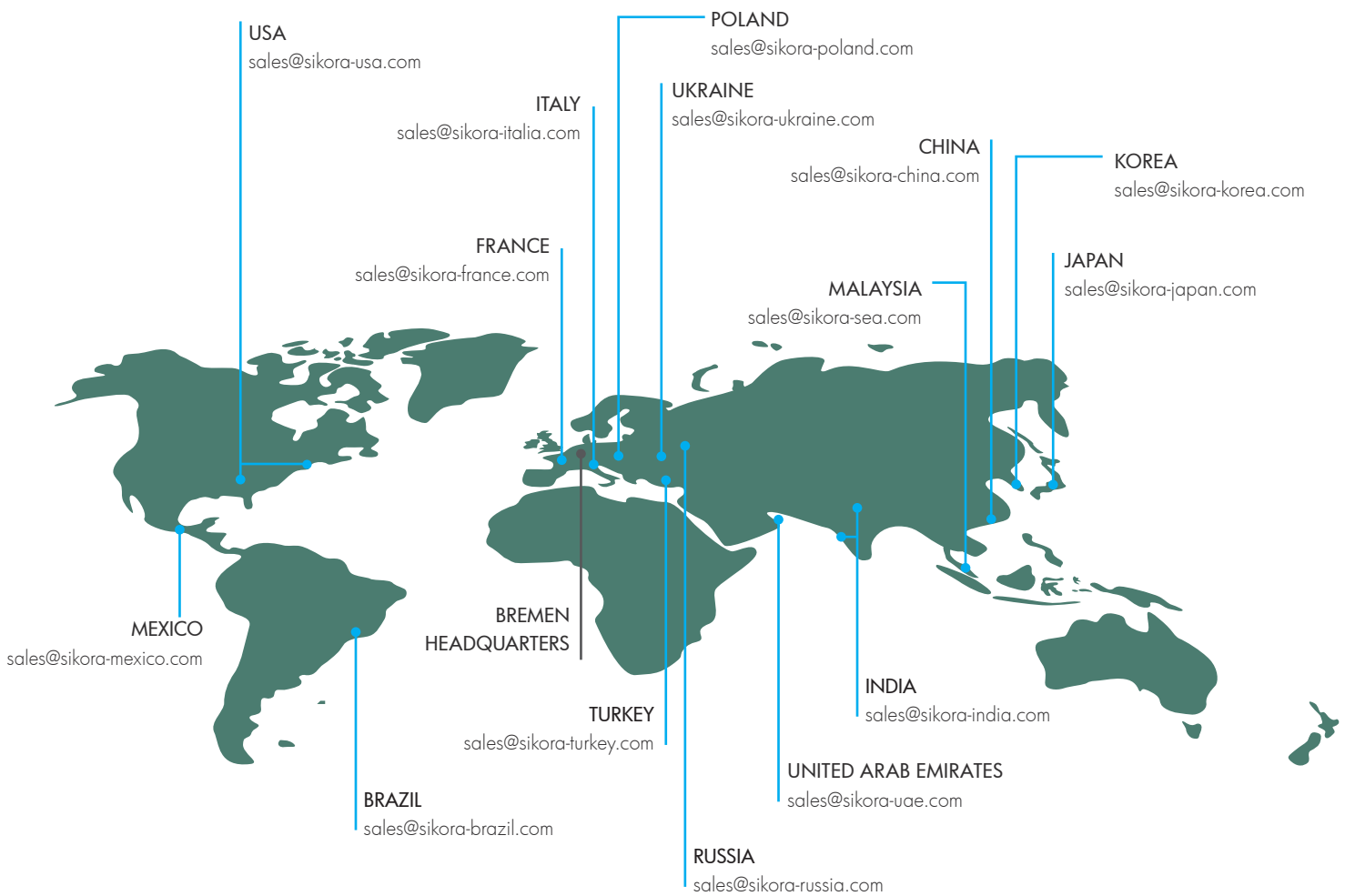
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 wire | Jun 20-24, 2022 | Düsseldorf, Germany
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 K | Oct 19-26, 2022 | Düsseldorf, Germany
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 Compounding World Expo North America | Nov 9-10, 2022 | Cleveland, OH, USA

Sustainability at SIKORA
Our environment is important to you, but you do not want to do without the informative SIKORA EXTRA articles? Register today at extra@sikora.net and receive the SIKORA magazine conveniently via email instead of printed material.

SIKORA

Technology To Perfection

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