

"New forces always grow out of crises."

Rita Süßmuth (German professor of education and politician, born 1937)



Dear Sir or Madam,

Of course it is difficult for me to report on business matters in view of the massive corona faults in our everyday life. But I would like to maintain a bit of normalcy and inform you that we are still there for you and try to answer all your inquiries quickly and competently as usual.

In view of the current exceptional situation, this may take a little longer than normal because the usual contact person minimizes his contacts in one way or another - true to the motto #StayAtHome. But we remain available for you by email and phone.

Regardless of Corona, there are of course current news from Bi-Ber, which I would like to inform you about as usual according to the table of contents.

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### 1. Review of ProSweets / Versions of empty mould check

At the beginning of February the ProSweets took place in Cologne - at that time without negative effects of the Corona virus. We thank all visitors for the stimulating discussions at our booth and hope for lively post-trade fair business. Our 2D and 3D solutions for product and shape control with machine vision or deep learning were the focus of our trade fair appearance.

We also presented the newly designed [overview of our systems for 2D empty mould check](#). You can now choose from a total of 4 designs for various mould types and widths. I am happy to create an individual offer for your specific requirement.

### 2. Fully automatic DMC reader

Bi-Ber automated the reading of data matrix codes (DMC) in the material supply for a customer. The newly designed code reader finds and decodes dozens of DMCs fully automatically in one pass. Teaching in a new number and arrangement of the DMC on metallic precision parts within a container is also done independently. Boxes with up to 130 workpieces with an embossed DMC can be processed.

Compared to the previous recording by hand scanner, enormous time savings result. Above all, this automation does away with a particularly complex, tiring work task.

### 3. Quality control with Deep Learning

Deep learning makes it possible to automate inspection tasks that are too complex for classic image processing. Bi-Ber has implemented such a solution for chocolate and waffle products. The products to be tested have different sizes and shapes (rectangular and round) and are covered with different chocolates. The products are checked within the form.

The AI evaluates each product individually and assigns quality indicators. Based on these values, the user can set the tolerance limit in operation and thus decide for himself how homogeneous the products must be and how much scrap he allows.

You can now find all information about this solution in a new [application story](#).

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We will probably send the next regular newsletter in June 2020. Of course, we would be happy to provide you with further information by phone or e-mail in the meantime.

Stay healthy!

Kind regards from Berlin  
Ronald Krzywinski

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