# OKS-Scanner

*Simple and rapid laboratory measurement of color, whiteness and specks*

The OKS scanner is a set of proven speck counter software, a sample container with accessories and a high-quality CCD scanner. The system can be connected to an existing laboratory PC and requires a Windows operating system (XP, Vista, 7, 8).

The special feature of this system is an objective and reliable measurement of colors and specks and the great reference surface (about 6 dm²).  The human eye is often inaccurate and manually signed up results are difficult to compare (different laboratory personnel, different lighting conditions). Because the system performs an objective and reproducible measurements, it enables the operation to save costs and to significantly accelerate the processes in the laboratory.



With *OKS scanner*, bulk goods such as flour and semolina, are examined for color, brightness and impurities.

The system is very user-friendly and self-explanatory. Through an integrated database and the small footprint of the files a long tracebality of all studies is guaranteed.

Upon request, the orders can be printed and handed over to the customer directly.

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### Easy to install

On delivery, the laboratory must only connect the scanner to their PC and install the bundled software and drivers. The supplied "Quick Start Guide" helps. Within a few minutes the  "OKS Scanner" is ready for use.  The software must be set up only once and calibrated for each new product. This only takes a few minutes.  On request, there can also be a service through remote maintenance or a telephone call.

Should the samples be very similar in nature, a recalibration is not usually needed.

### Fast to use

For the placement of the product sample on the scanner a specially designed container was developed by us.  This container is extremely light and has a transparent Makrolon plate on the bottom through which the sample is scanned.  The laboratory personnel just have to add the examined product (eg flour or semolina), and then click on the "restart job" button.  The software is counting the specks and does the evaluation automatically.

### Versatile

The system has a built-in language translation and is preconfigured at delivery for German and English menus.  Upon request, the system can be translated into any other language, eg French, Spanish, Italian, etc.

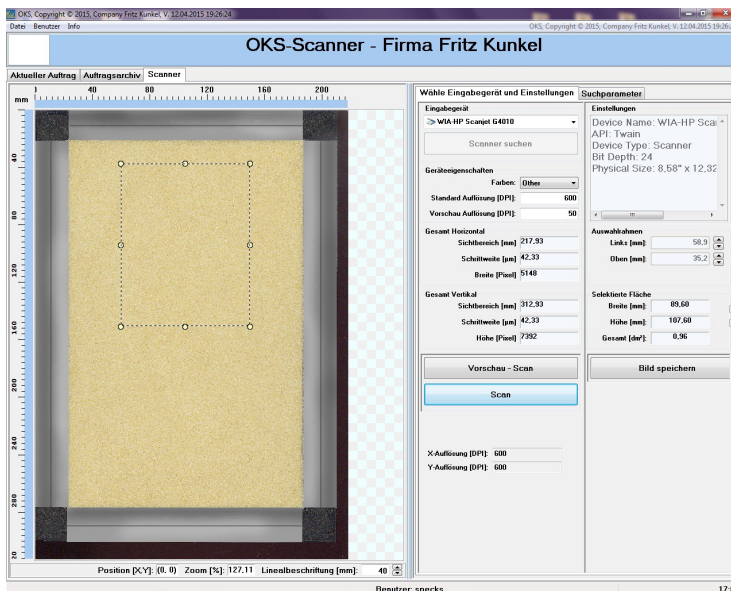Thus, it can be used by laboratories around the world.
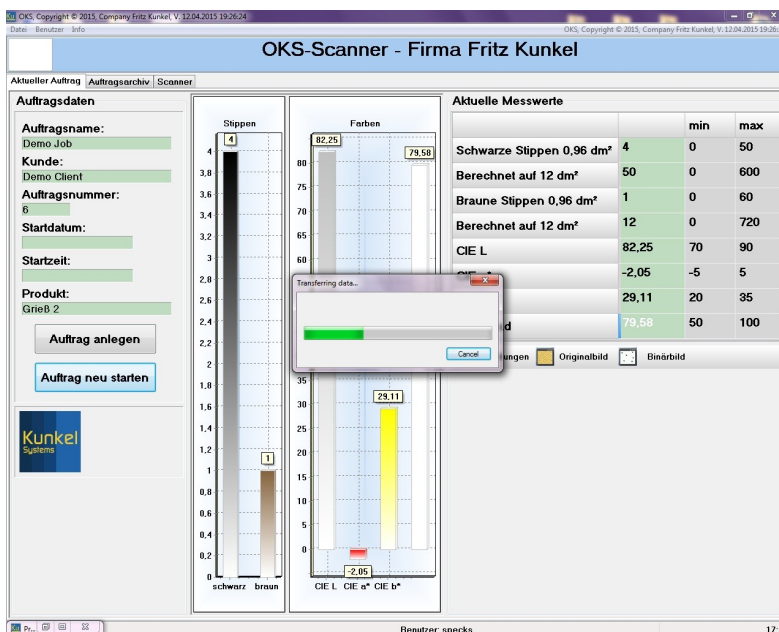
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## Screenshots of the program interface

(1) Before the first use of the scanner is set up. All installed scanners are listed. You can adjust the DPI of the preview image and the final scans separately. With a selection frame the desired area is set:
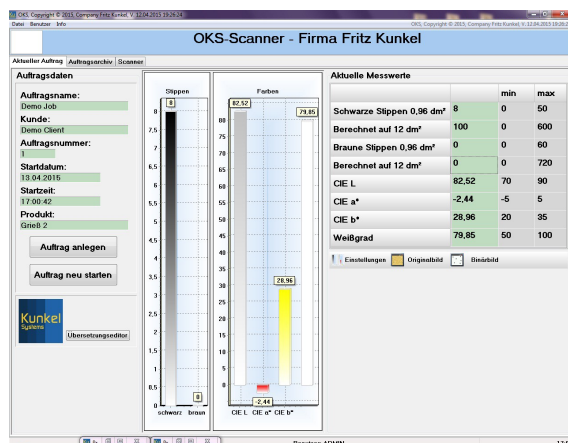


(2) With a click on "restart job" the image is scanned and evaluated in a few seconds:
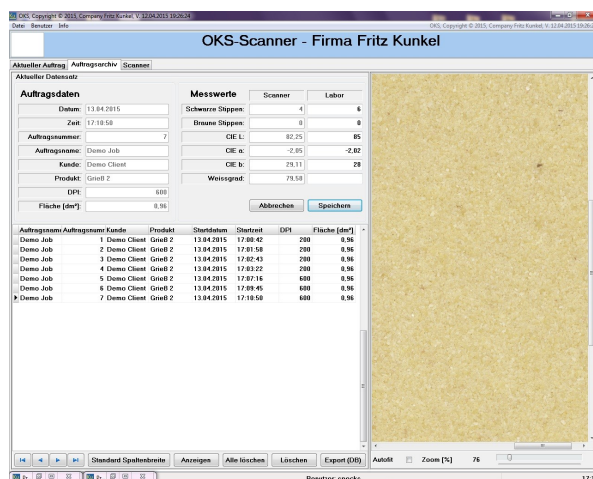
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(3) The user gets a clear over-view of all values after scanning. Brown and black specks are analyzed separately. At a glance you can see the Cie L, a, b values of the product sample. Thus, for example, the user can read the value of yellow (for semolina) quickly. The evaluation of the whiteness is also done by the system:



(4) In the job overview, the single jobs can be traced later. All important data are stored in a database and can be printed. A product image is stored for each sample. On request laboratory values can be entered for comparison purposes:



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