

K9 BASIC / K9 FLASH

Conveyor Belt Sorting System for the glass recycling industry

- Quality improvement in fine, hollow and flat glass recycling
- Color separation and sorting
- Separation of ceran impurities
- CSP separation
- Separation of lead glass impurities
- Minimal lost of good material



- FLASH Technology as option
- Space-saving design
- Minimal glass break
- Upgrade options (metal sensor)
- Detection rate of more than 50,000 parts/sec.
- Can be integrated into the VISUTEC data management system

Areas of application:

The K9 BASIC / K9 FLASH colour separator is used for the colour separation of cullets and CSP separation from a grain size of 2 mm. It is mainly used for quality improvement in the recycling of fine glass, hollow glass, and flat glass in a predominantly single-coloured cullet flow, e.g. in white or brown glass enrichment.

In addition, the colour separator also offers the option of obtaining high-quality single-colour fractions from mixtures of differently coloured shards.

K9 FLASH also detects heat-resistant and/or leaded special glass types.

Technology:

Using high-performance CCD monochrome or colour cameras and temperature-stable quick-acting valves with up to 500 switching operations / sec. these separators generate high-quality single-colour bulk material fractions even in case of colour contaminations in a two-digit percentage range.

The operating software was developed with particular emphasis on making the software as easy to use and as clearly structured as possible. K9 systems feature the so-called "Auto-Learn Mode" that allows the user to program the system for the respective sorting task simply by feeding the material fractions that should be separated.

K9 FLASH analyses information in different light wavelength ranges. The combination of different light types allows the identification of foreign colours, CSP, as well as heat-resistant and leaded special glasses, which are then reliably and efficiently separated by air-blast nozzles that respond with millisecond accuracy.

With the extension of colour analysis from the conventional three base colours to now up to nine base colours, and with the increase of the local resolution to up to 0.2 mm per pixel, K9 FLASH sets new standards for sorting accuracy in the field of glass sorting.

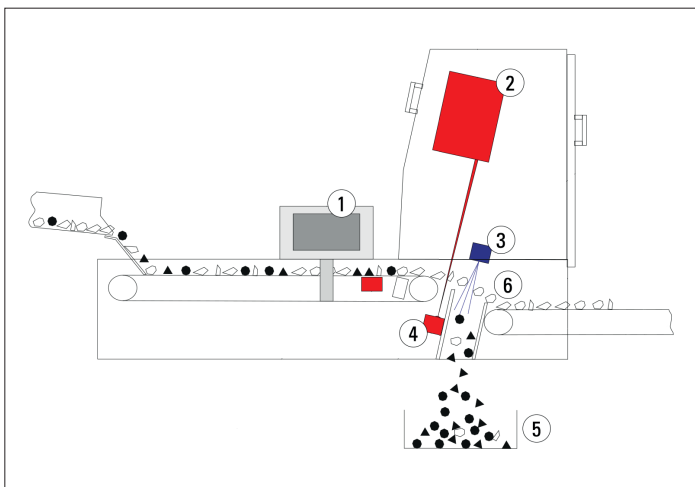
Performance features:

- FLASH Technology as option
- High performance monochrome or colour CCD camera
- Metall detection as option
- Temperature-stable fast-switching valves with up to 500 operations/sec.
- 3,2/4 mm and 6,4/8 mm valve/nozzle grid
- Detection rate of more than 50,000 parts/sec.
- Working widths 1024 mm and 1280 mm
- Modular structure (individual sensor upgrade)
- Easy to service (low service costs)
- Plug and work
- Low-maintenance lighting and camera systems
- Remote maintenance, monitoring and data management
- Individually programmable

Advantages:

- High throughput rate
- High ejection reliability
- Simple operation
- Compact design
- Simple integration in production plants
- Upgrade option

Function Chart:



- 1 Evaluation electronic
- 2 CCD line scan camera
- 3 Air blast reject system
- 4 Lighting
- 5 Off color Impurities / CSP / Special glass
- 6 Smooth material transition to the next K9 or into a chute

VISUTEC data management system:

All colour separators from the K9 BASIC / K9 FLASH series can be networked with a PC on which the data management software VISUTEC is installed. Thus you have an optimum quality control centre, with which, for example, the input quality of the material to be processed can be permanently monitored and logged.

VISUTEC makes the search for foreign matter transparent:

- On-line querying of the log data
- Central setting/changing of parameters
- Remote maintenance
- Software updates