BARS hardware and software complexes for in-line banknote processing

Complex designation

- Provision of in-line banknote bundles processing mode with each CCM BARS of the complex.
- Automatic destruction of worn banknotes during sorting (in combination with group destructor).
- Inspection of the delivered, processed and ready to issue cash conformity in real time mode.
- Automatic identification of banknotes in doubt subject to the counted bundles they belong to without any consumables (separation cards etc) or special prior preparation of the bundles.
- Expertise automation of banknotes in doubt recognized during processing.
- Reliable storage of processing data for the pre-set period by recording the operation of each CCM BARS of the complex with the possibility of back up and restoration of all data.
- Banknote processing result data transfer to the bank’s ACS.

Productivity, flexibility and improved reliability in combination with considerable economical efficiency make the complex a real alternative to the systems based on large floor-mounted counting-and-sorting machines.
Advantages

Increase of productivity

- At least two-fold increase of CCM BARS 5200 operator shift productivity in comparison with off-line productivity.
- Optimal load distribution for CCM BARS operators.

Additionally for the complex with destructor

- Elimination of worn banknotes packaging.

Increase of security level

- Elimination of banknote manual re-counting.
- Complex and personnel operation recording system.

Additionally for the complex with video

- Fixation of all unauthorized situations during complex operation.
- Recording personnel actions at the moment of alarm event and fixation of timespan before and after it.
- The possibility of restoration and further analysis of any events during the complex operation.

Additionally for the complex with destructor

- Assurance of banknote shredding up to fragments not more than 6x6 mm².
- Recording of the fact of forwarding the banknote to enter the destructor with special detector.
- Recording of serial numbers of the banknotes forwarded for destruction.
- Automatic removal of the destructed banknote trims outside re-counting cash room.
Increase of expertise level
- Unique technology of the banknotes in doubt automatic expertise based on serial number reading during banknote processing.
- Data transfer to expert from CCM BARS about the features in doubt with the display of banknote images in visible and UV-spectra.

Increase of reliability level
- Keeping in-line mode during one or two CCM BARS complex stop in case of decrease of the required processing volumes.
- Keeping in-line processing mode during one or two CCM BARS complex stop for maintenance or repair.
- Work distribution subject to operator skill level.

Complex composition
- From 3 to 6 pcs. of BARS 5200 counting-and-sorting machines.
- Inspector’s workstation.
- Expert’s workstation.
- Intellectual video system.
- Kusters Engineering B.V. OGS-100R worn banknote granulation type destructor (option).

Data flow diagram
Data about the processed bundles, shortages, excesses.
The complex operation record.
Reports. Acts.
Banknotes in doubt data.
Banknote, bundle identification. CCM BARS.
Processed banknotes in doubt data.