BARS 5000 Counting-and-Sorting Machines

BARS 5200, 5600

BARS is an optimal solution for every task

BARS technology provides max flexibility in choosing the decision how to equip cash departments, cash centres, re-counting cash.

Six machine-readable features inspection according to current and perspective requirements of Instruction No 318-II of Bank of Russia.

**Major Functions**

Banknotes re-counting.

Multilevel sorting by degree of wear.

Sorting by orientation and denomination.

Recording of the amount, checking in all the modes.

Authentication and solvency.

**BARS 5000: technical and operation data**

**Construction data**

Position: desktop.

Feeder: up to 600 banknotes.

Sorting magazines:

a)  4 (sorting) + 1 (return/doubt) up to 300 banknotes each
b)  2 (sorting) + 1 (return/doubt) up to 300 banknotes each

Banknote size:

Cross direction: from 50 to 100 mm

Longitudinal direction: from 94 to 180 mm
**Productivity**

Feeding speed: up to 12 banknotes/s

Sorting/counting speed: up to 40,000 banknotes/h depending on the mode, banknote size, cash processing technology.

**Authentication detectors**

Watermark, UV-spectrum scanners.

Magnetic detector, metallized thread detector.

Thickness/double note detector.

Special security features inspection detectors.

**Interface**

Integrated sensor 10” display

Integrated IBM-compatible PC

Ports: parallel, USB, Ethernet (to connect keyboard, a computer mouse, printer, power supply).

**Software**

Windows XP

BARS original software

**Operating conditions**

Temperature: 15-35 °C

Humidity: 40-90 % without condensation

Power supply: 110/220 V, 50/60 Hz

**Power consumption**

a) 1200 W

b) 1000 W

**Dimensions (LxWxH)**

a) 1670x542x585 mm

b) 1170x542x585 mm
Weight
a) 145 kg
b) 110 kg

Noise
Not more than 66 dB

Additional possibilities
Additional modules connection: with 2 or 4 sorting magazines, shredder, banding unit.
Additional detectors installation.
Configuration in BARS hardware and software complexes for in-line banknote processing, modularity with Kusters Engineering B.V. OGS 100R group destructor.
Data transmission within local area network, types of accounting generation and change.
Adaptation to processing new denominations and banknote series, new currency.

Special possibilities
- Personalized tracking of each banknote by its serial number.
- New quality of expertise with the automatic provision of CCM BARS analysis result to an expert.
- BARS integration into a bank’s ACS.
- Network combination of several BARS into BARS high-production hardware and software complexes.
- BARS hardware and software complexes modularity with Kusters Engineering B.V. OGS 100R group destructor.
- Additional detectors installation for new banknote security features.
- Standard and original accounting forms generation and issue.
- On-line interface and adjustment software tools change.
- Remote diagnostics.
- Obtaining statistic data for individual banknote series, the pre-set series banknote reject.
BARS 5000 new functional design with mobile touch screen.

**Multicurrency support**
- BARS is universal analyzing system suitable for processing any type of banknotes and their modifications.
- Quick adaptation to new banknote denominations and issues, new currency that does not require additional hardware adjustments and changes.

**Possibilities of identification and sorting**
- Scanning 100% surface of both banknote sides in visible and IR-spectra.
- Size, banknote geometry disconformity.
- Image shift relative to the edge (trim inspection).
- Pattern fragment shift within the total image (composite banknotes).
- Paper and ink fluorescence/phosphorescence under UV-light.
- Soft/hard magnetic materials in ink and paper.
- Availability of metallized tape/thread.
- Min/Max thickness, double.
- Serial number, number match (composite banknotes).
- Bright objects (metallized strip, foil, hologram etc).
- Latent security elements of Bank of Russia banknotes.
- Spots, inscriptions, wrinkles, total wear (loss of contrast, paper color and image change).
- Adhesive tape, scotch.
- Holes, breaks, tears, dog’s ears and ragged corners.