Toshiba’s latest Banknote Processing Machine FS-810

- Ergonomically designed, it promises you highly efficient, effective performance for all your needs.
- The superb features of the FS-810 will prove beneficial to your bank.
- Equipped with latest technology, offering you a full supporting system in banknote processing.

Specifications:

<table>
<thead>
<tr>
<th>Construction</th>
<th>3800 (W) x 1460 (D) x 2190 (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise level</td>
<td>Approx. 70 dB (A)</td>
</tr>
<tr>
<td>Voltage</td>
<td>142 V</td>
</tr>
<tr>
<td>Performance &amp; functions</td>
<td>Number of denominations handled</td>
</tr>
<tr>
<td>1. Type of banknotes</td>
<td>Max. 25</td>
</tr>
<tr>
<td>Note Length</td>
<td>120-210 mm</td>
</tr>
<tr>
<td>Note Widths</td>
<td>60-90 mm</td>
</tr>
<tr>
<td>2. Feed and transport</td>
<td>Feed direction</td>
</tr>
<tr>
<td>Flow capacity</td>
<td>Max 1,200 notes x 2</td>
</tr>
<tr>
<td>Feeding rate</td>
<td>Approx. 760 per minute</td>
</tr>
<tr>
<td>3. Standing and bending</td>
<td>2 bundles of dual stacker/binder and 1 unit of reactor shredder</td>
</tr>
<tr>
<td>Bored painting</td>
<td>Approx. 23 characters</td>
</tr>
<tr>
<td>Denomination Change</td>
<td>Automatic</td>
</tr>
<tr>
<td>Specifications are subject to</td>
<td>change without prior notice.</td>
</tr>
</tbody>
</table>

4. Shredder
Size of shredded fragments: Approx. 15 x 15 mm

5. Project stacker capacity: Approx. 300 notes in 2 years
   (Based on reject and detection rates)

6. Detection
   Standard Option:
   Denomination, fitness, shape, thickness
   Authenticity detection:
   - Fluorescent thread
   - Fibre optic thread
   - Infrared ink
   - Magnetic ink
   - Magnetic thread
   - Armaments thread
   - 2 Bar watermark
   - Multi-histogram detection
   - Iterative with third-party detection and custom detection

7. Data management (DD):
   Windows 2000

8. Performance
   Throughput: Up to 60,000 notes/shift
   Subject to hardware quality
1. BANKNOTE SUPPLY
Big capacity (1,000 notes) and continuous supply (1,000 notes + 1,000 notes by batch), Low acoustic noise by automatic door.

2. DETECTION UNITS
MAP SCAN
MAPSCAN by a pair of full color CCD cameras to scan full face in both sides of bank notes.
MAPSCAN performs Denomination detection, Soil detection and Defect detection.

Authenticity Detection
Max. 7 kinds of authenticity detectors can be installed.

Thickness Detection Units
FS-810 has two thickness detectors. The former thickness detector rejects any stuck (multiple) notes to prevent harm onto the detector systems. The latter thickness detector rejects any notes with tapes precisely.

Data Analysis
FS-810 can display the result data of each detector on the panel, then an authorized person can analyse the data.

3. TRANSPORT AND STACKERS
Rigid frame and material realize quite stable banknote transportation.
Two stackers per each category to maintain the processing speed and all stackers have automatic banders for 100 notes.

4. REJECTION
The rejection unit has two boxes, lower for the detection reject notes and upper for the mechanical reject notes.

5. GRAPHIC USER INTERFACE (GUI)
The machine has big and bright 15 inches display.
The operator sets up sorting scheme (denomination, batch size, soil level fitness, etc.) on GUI (shown left).
And the operator can monitor the machine processing condition on the same GUI (shown right), such as jam location, banding tape or other necessary information.

OUTPUT
The banded notes are transported to the output stacker. The output stacker has 2 category levels and the operator can pick up each banded notes easier.