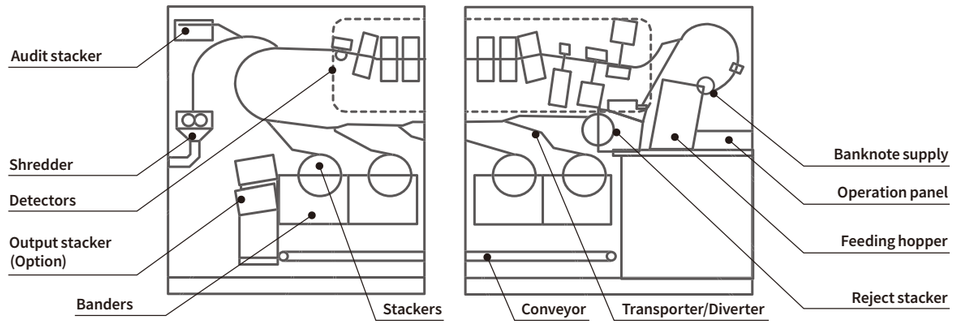
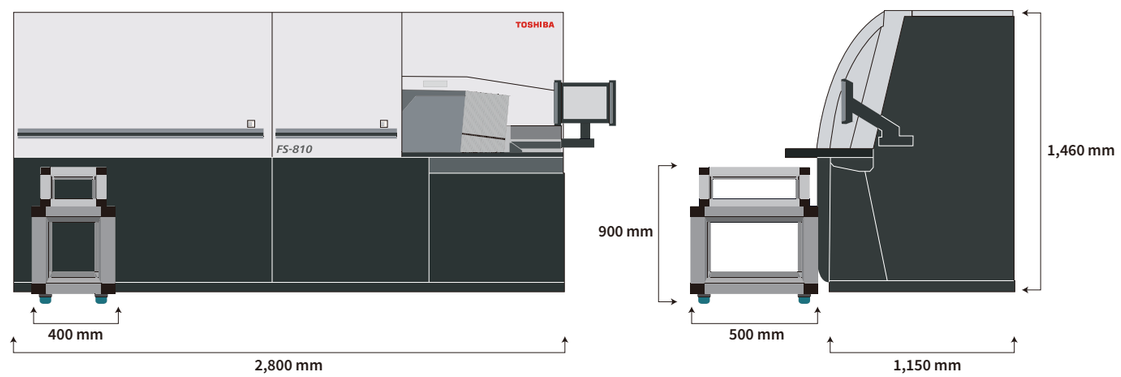
■ Layout



■ Size and Dimensions



■ Specifications

Machine size (mm)	2,800 (W) x 1,460 (H) x 1,150 (D)
Voltage	380-400V
Number of denominations handled	Max. 21
Note length	120-170 mm
Note width	60-90 mm
Feed direction	4 orientations
Hopper capacity	Max. 1,000 notes x 2
Feeding rate	Approx. 760 notes/minute
Stacking and banding	2 modules of dual stacker/bander and 1 unit of on-line shredder
Size of shreds	Approx. 1.5 x 11 mm
Reject stacker capacity	Approx. 100 notes x 2 compartments (Thickness reject and detection reject)

Detection	**■Standard** ・Denomination ・fitness ・shape ・thickness **■Optional authenticity detectors** ・Fluorescent bleach ・Fluorescent ink ・Infrared ink ・Magnetic ink ・Magnetic thread ・Aluminium thread ・Bar watermark ・Interface with third party detectors
Throughput	Up to 40,000 notes/hour subject to banknote quality

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Note:
- This information contained herein is as of March 1, 2019.
- The information contained herein is subject to change without prior notice.
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TOSHIBA

Banknote Processing System

FS-810

Compact Banknote Processing System with On-line shredder for Central Banks

TOSHIBA's Banknote Sorting Solutions

Toshiba is one of the largest electric/electronic manufacturers in Japan, with a history that extends over 140 years.
Toshiba started the Banknote Sorting related business in the 1970s and has exported these systems globally.

1. BANKNOTE SUPPLY

Large capacity and continuous supply of notes.
Low acoustic noise by automatic door.

2. DETECTION UNITS

MAPSCAN

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

Authenticity Detections

Maximum 7 kinds of authenticity detectors can be installed.

Thickness Detection Units

FS-810 has 2 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 dispaly the result data of each detector on the panel, then an authorized person can analyze the data.

3. TRANSPORT AND STACKERS

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

Audit stacker
and Shredding units

Detection units

MAPSCAN

Transport and Diverter units

Banknote supply units

Output stacker

Stacking
and Banding units

Rejection unit

4. REJECTION UNIT

The rejection unit has 2 compartments, lower for the detection reject notes and upper for the mechanical reject notes.

5. GRAPHIC USER INTERFACE (GUI)

The machine has a 15-inch display. The operator sets up sorting scheme (denomination, batch size, soil level fitness, etc.) on GUI.
The operator can monitor the machine processing condition on the same GUI, such as jam location, banding tape or other necessary information.

6. 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.

7. ON-LINE SHREDDER

The shredder unit is integrated in the machine. Its independent count controller checks the count for each note against the system count to avoid manipulation. The size of shreds is 1.5 x 11 mm.