



Bill-to-Bill 300 ST

Stackerless Top Dispenser

Introduction

- Bill-to-Bill Stackerless is the worlds **first** 3 denomination banknote recycler with free-fall capabilities
- It is the smallest banknote recycler that maintains one of the highest recycling capacity of 300+ banknotes
- Features state of the art validation technology and top of the line performance



Market Exposure *



* Data as of September 2012

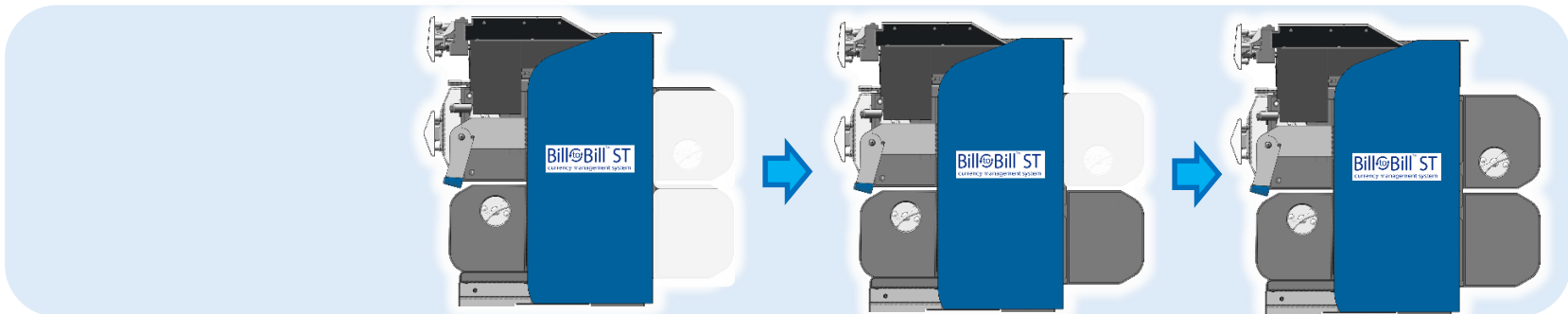
Over 16,000 Units deployed worldwide

Bill-to-Bill 300 ST Modularity

- The Bill-to-Bill ST offers an easy upgrade path from a single note recycler to a full 3 note recycler with escrow functionality to provide flexibility
- One model can be configured as needed with various currencies and recycling configurations

Upgrade Path - Single Note to Full Recycler

	Bill-to-Bill 100 ST	Bill-to-Bill 200 ST	Bill-to-Bill 300 ST
Functionality	Single Note Recycler	Dual Note Recycler	Full Banknote Recycler
No. of Recycling Cassette	1	2	3
Recycling Capacity	100	200	300
Multi-Escrow Capacity	20+	20+	20+
Stackerless Functionality	Yes	Yes	Yes
Upgrade from Acceptor		Software + 1 Recycling Cassette	Software + 2 Recycling Cassettes



Bill-to-Bill Benefits



Provides Highest Operator Efficiency

↑ Uptime ↓ Labor ↓ Cash float ↑ Security

Highly Configurable/Field Upgradeable

Field Proven Reliability

Integration Advantages

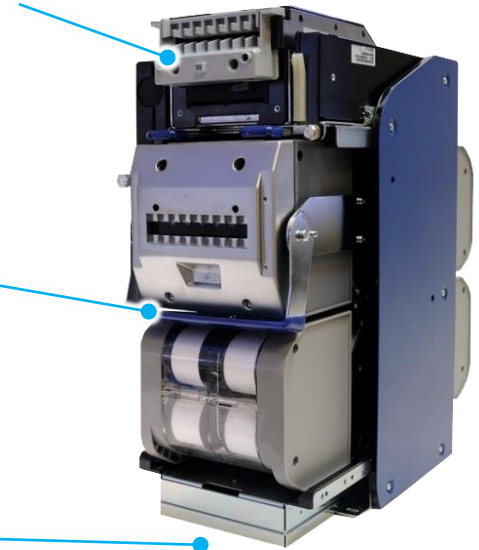
The Bill-to-Bill allows for all modules critical to its operation to be accessed from the front, this gives the benefits of:

- Easier integration, requiring no rails to access the rear of the unit
- Faster troubleshooting and jam clearing increase uptime

Validation head
extracted from front

The chassis (containing recycling cassettes, dispenser and switch module) extracted from front using push latch and handle and exposes the entire bill path from the front

Easy sealer bag access
and integration



Market Requirements

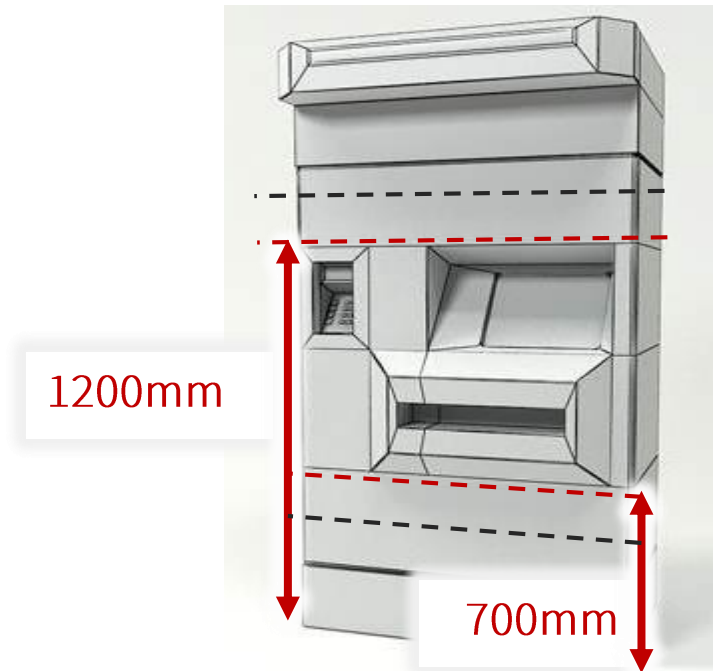
- In many cases cashbox capacity of 1,000 or 2,000 notes are not enough to minimize cash collection frequency
- By going through frequent cash collection cycles, full cost savings and benefits of having a banknote recycler are taken advantage of
- To help with even further cost savings, the Bill-to-Bill Stackerless was developed, a true free-fall banknote recycler

What About the Competition?

Feature	Benefit
Bill-to-Bill ST is the only product to provide combined benefits of a Banknote Recycler and a Free-Fall in one	Customer benefits from cost reduction of fewer collection visits both by: <ul style="list-style-type: none">- Larger cash collection container capacity- Recycling capability reducing number of banknotes unloaded to cash collection container
Upgrading from Acceptor to Recycler? Bill-to-Bill ST is the only product to offer tool-free modular upgrade path	Banknote Recycling technology is growing exponentially as the benefits are becoming clear. Being future proof with modular upgrade path will result in great savings when the need to grow from an acceptor to a recycler will come!
Bill-to-Bill ST is the smallest 3-denomination, 300 note capacity recycler on the market (by volume)	By having a small foot print, this gives the OEM flexibility of where the product can be placed inside the TVM and reduces material cost by requiring less support due to weight

New Ticket Vending Machine Requirement

- The new workable area decreased to between 700 mm to 1200 mm
- To maintain a reasonable (or existing) width of Ticket Vending Machine, manufacturers had to:
 - Put Internal peripherals closer together
 - Reduce size of peripherals, or
 - Replace peripherals with new ones

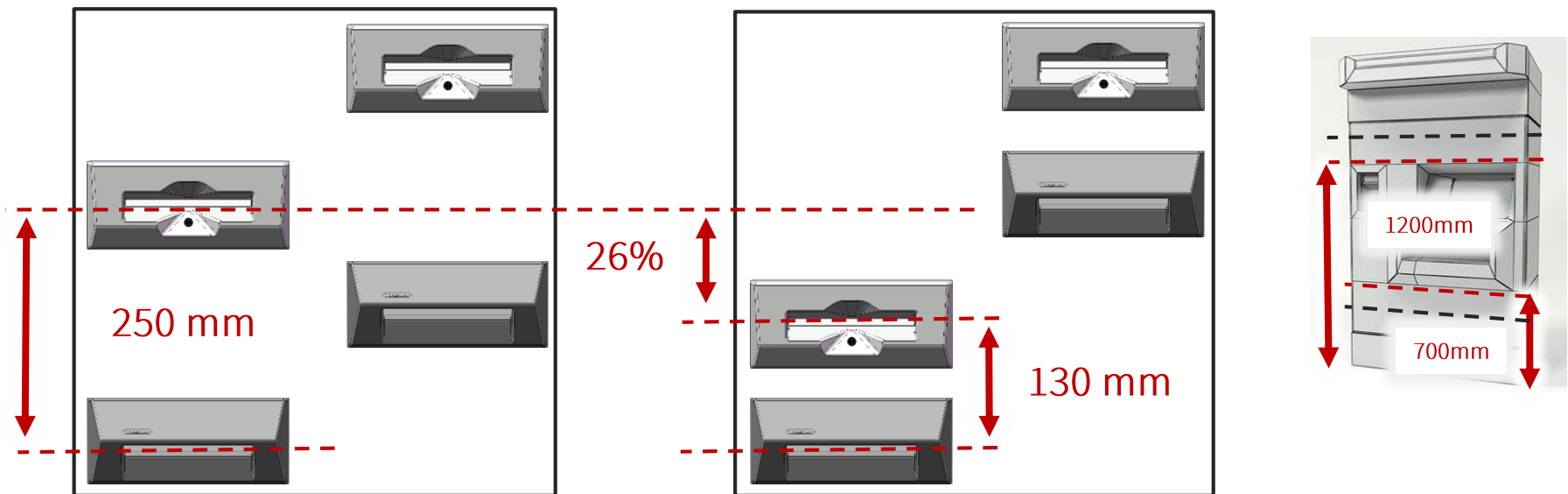


Accommodating New TSI-PRM Requirements

- To make the Bill-to-Bill easy to integrate into TVMs abiding by new TSI-PRM requirements, SUZOHAPP redesigned the product and took this opportunity to improve it further with following changes:
 - The location of the dispenser was brought closer to validating head
 - The locking mechanism was relocated to the top
 - Included additional sensors for note tracking to improve reliability

Top Dispenser Benefits

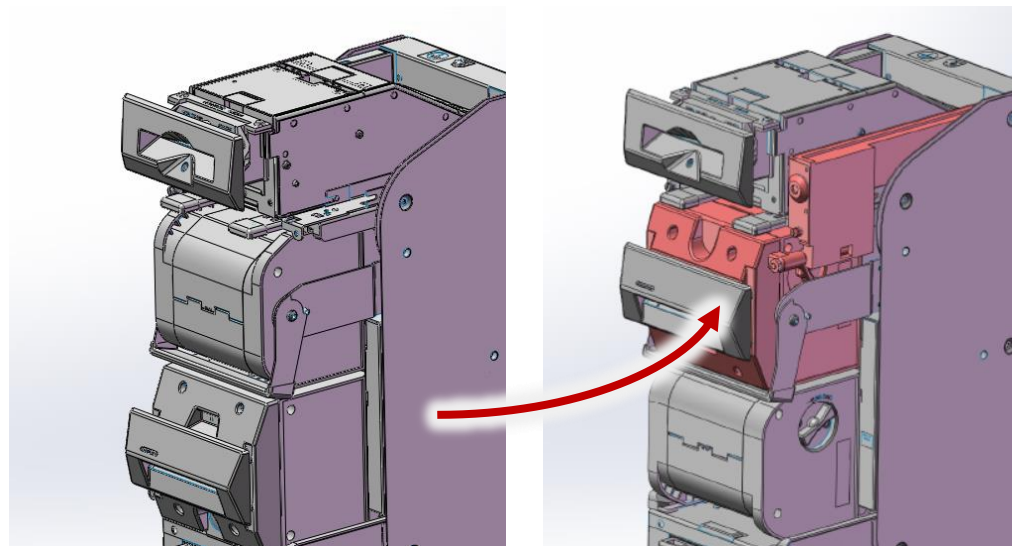
Top Dispenser Design gives a combined 26% (120 mm / 500 mm) more working space above or below the unit



The New Bill-to-Bill 300 ST Upgrades

The location of the dispenser was brought closer to validating head

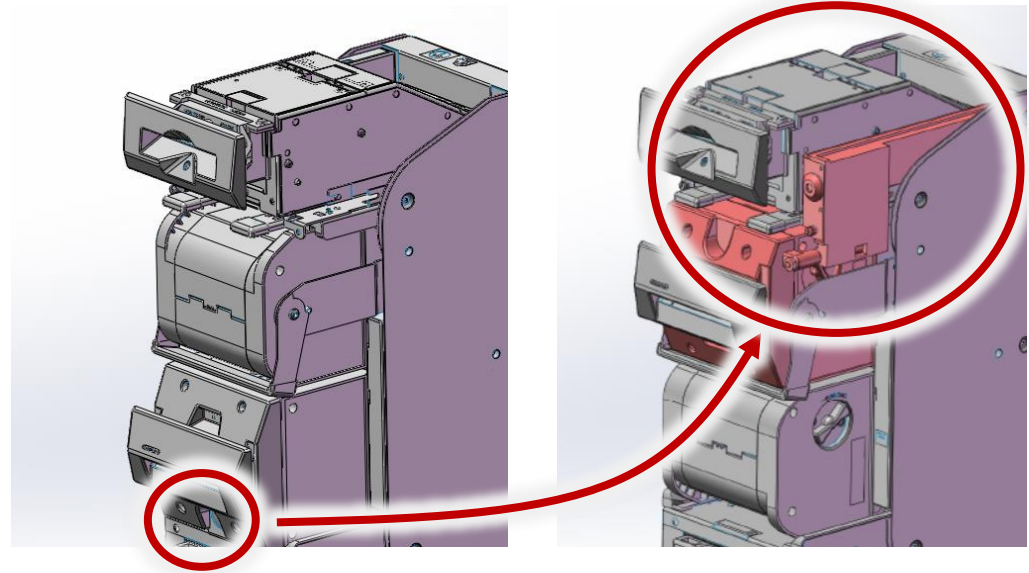
The distance between the Validating Head and the Dispenser decreased from 250 mm to 130 mm, giving additional 26% in height adjustments space of 500 mm working height



The New Bill-to-Bill 300 ST Upgrades (Cont.)

The locking mechanism was relocated to the top

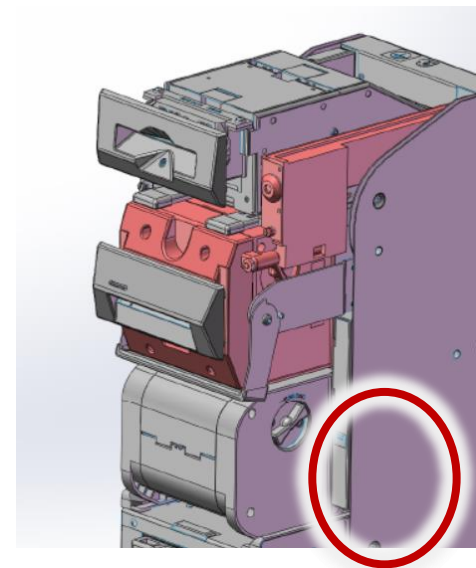
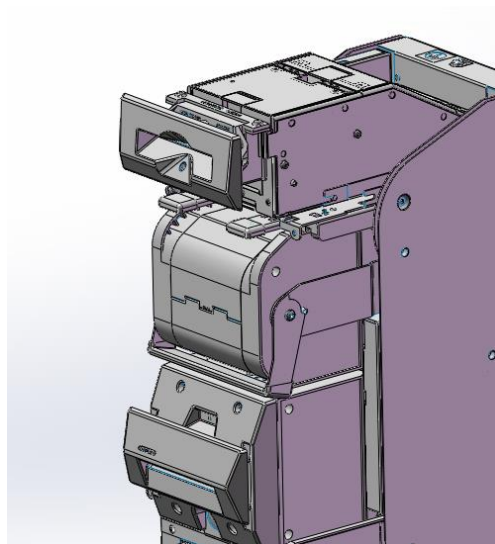
To maintain same exceptional level of security, while maintaining same level of flexibility during maintenance and servicing, the lock has been relocated to the top of the unit next to the Validating Head



The New Bill-to-Bill 300 ST Upgrades (Cont.)

Included additional sensors for note tracking to improve reliability

These modifications allowed to incorporate an additional sensor near the entry to the cashbox module, providing with better handling of jams, leading to improved recovery algorithm and better reliability



Thanks