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Range of Materials Handling Solutions for Today

Book drops

- Automated Check-ins with Sorters
- Dispensers
- Kiosks
- Sorters for interlibrary delivery

New stuff

Top Tech Trends in Materials Handling

Lori Bowen Ayre Infopeople Webinar February 14, 2012

Does your heart sink every time you walk into the back room and see rows of full book carts waiting to get checked in or shelved?

Photo: University of Colorado Boulder http://ucblibraries.colorado.edu/circulatio n/return.htm

Photo:

http://www.newyorker.com/online/blogs/ books/tny14

Range of products we'll discuss today

- Book drops
- Automated Check-ins with Sorters
- Dispensers
- Kiosks
- Sorters for interlibrary delivery
- New stuff

Focus is on smaller library needs

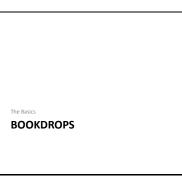
Trends

- Prices for all AMH products going down.
- Quality of AMH products going up.
- Vendor marketplace is settling.
- Kiosks filling a niche (but still evolving).
- Automated check-ins with at least 3-bin sorters becoming standard.

Trends

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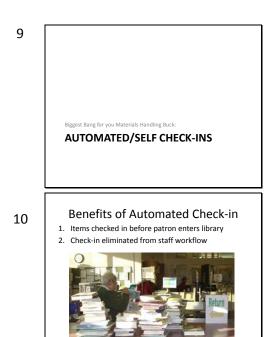
Book drops inside the library are limited – max capacity is 500 or so items, then what?

Adding book drops around town or in parking lot can be a good low-cost solution for

- Handling high accumulation periods (holidays, long weekends
- Libraries that get all the returns)

Place them around town and have delivery service include in pick-ups)





Variations in Automated Check-ins

- Location (inside, outside, foyer)
- Access (restrictions, or not)
- Induction (one-at-a-time, or not)
- Patron interface (touch screen, or not)
- Number of sort discharges
- RFID (or not)

Location

- outside wall (in place of or
- supplementing book drops)
- entry way for 24/7 access
- inside near service desks

Access

- no access door (dump)
- button to start process
- require library card to open door or scan library item

Feeding

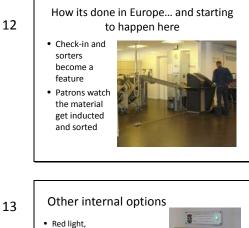
- one-at-a-time (read each bar code or RFID tag) and decide to accept or reject, verify check=in
- dump 'em in (RFID only), may end up getting more than you bargained for, faster

Interface

- touch screen with instructions, verify success along the way
- lights (dump now, wait)

RFID or bar code or both

• can have bar code reader on top and bottom



Red light, green light or screen?
RFID required or not?
Ease of use

TREND! USA is just catching up with Europe....

- SFPL set up much like what is picture here.
- See my YouTube link at the end of the slides

LibraryMate[®] 500 (LM500)

- entry-level
- wall-mounted
- internal
- 1,000 library items per hour
- does not reject items
- no receipt functionality
- multiple languages
- barcode and RFID

Check-In station, LibraryMate® 1100

- wall mounted
- internal
- graphic interface
- rejects non-library material
- issues receipts
- multiple languages

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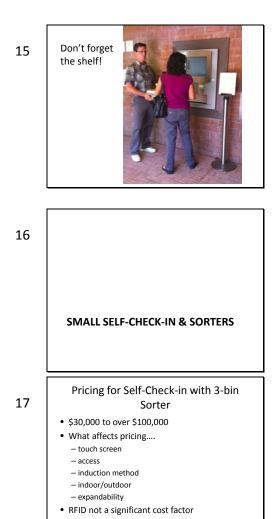
External Check-ins

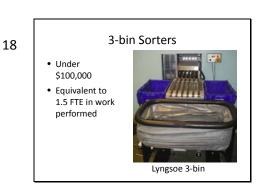
- What to look for:
- Can you see the screen?Access door (UL listed?)
- Ease of use
- Lase of use Touch screen
- Clear instructions



Library Mate 2000

- exterior use
- lighted!
- touch screen
- rejects items
- access door





Automated Check-in vendors:

- Lyngsoe
- 3M
- Envisionware
- Bibliotheca
- Tech-Logic
- Automated check-in or self-check-in isn't enough on its own.
- You need a sorter on the back side.
- Ideally sorter is in work room
- But they can live in closets / small rooms

Pricing

- \$30,000 to over \$100,000
- What affects pricing....
 - touch screen
 - access door or drop it in
 - induction method/rejection of items
 - indoor/outdoor
 - receipt
- RFID not a significant cost factor
- Space required: 8x10
- Lots of discharge options: trolleys, totes (bins), book carts, your own book bins
- One pictured here (Lyngsoe) is "convertible."
- The totes are on a shelf which can be dropped to make space for more trolleys (for high-volume return days)

Benefits of Self-Check-in with 3-bin Sort

- 1. Items checked in before patron enters library
- 2. Check-in eliminated from staff workflow
- 3. Separate ready-to-shelve returns
- 4. Separate media (protect them from damage)
- 5. Separate items needing staff (e.g. holds, exceptions)

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Choosing Your 3-bin Sorter • Does it fit into the space?

- Does it make paper receipts optional (library setting) and/or offer email receipts?
- Is it quiet enough?
- Is it UL-rated?
- Does it require all material to be RFID-tagged?
- Does it handle EM security?
- Is it expandable? Versatile?
- What are the maintenance requirements?
- Purchase and annual cost?

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3M Intelligent Return Plus Barcode or RFID No touch screen

Entry Level 3-bin sorters:

3M Intelligent Return (not expandable)

- Cost: \$40,000 including installation and one year warranty, indoor, push button activation (no touch screen)
- EM Re-sensitizing +\$6K
- Outdoor + \$3K
- Touch screen \$14-\$18K (indoor-outdoor)

Bibliotheca SmartSort 200

- No touch screen
- No receipt
- No reject option
- Inside and outside models
- Pricing: \$30K range with 3-bin sorter



Entry level 3-bin from Bibliotheca SmartSort 200

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Not Worthwhile 2bin Pictured: BibliothecaITG, Libramation, and mk Sorting products

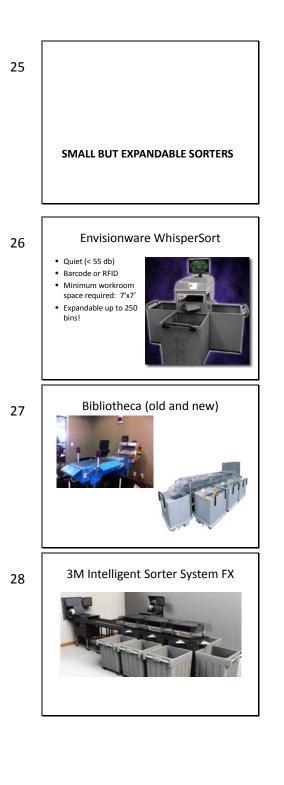
• \$25,000 - \$30,000

Mk Sorting unit

- San Mateo County, CA
- Palm Springs getting a 7-9 bin from mk Sorting



skip



\$50,000 with holds handling included (and printer)

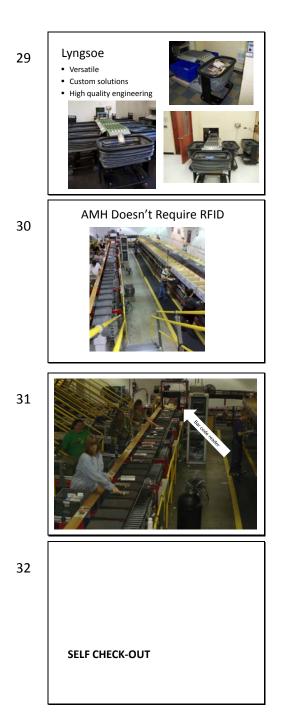
Ideally 10x10 available in backroom

Dropping the "blue" line and moving toward a product line resulting from their Trion acquisition.

This is good news.

3M FX Model - Expandable

- 3M FX 5 Bin Base Model is \$77k
- 3M FX 7 Bin Base Model is \$100k
- staff induction add \$31k
- Includes installation and a one year warranty.



Used to be you had to pay more to get the quality of Lyngsoe (formerly FKI Logistex).

But now competitive price-wise. Great products.

NOTE! AMH is affordable because it doesn't require RFID...

- 150 sort destinations with room for 50 more
- Sort 54,000 items a day

Biggest library sorter in USA is in King County – bar code based



Tech-Logic CirclT Combo Station Two screens

 Designed for use at service desk



patrons Staff can guickly resolve issues

R-Series is for RFID, no V. Now can convert V-series to RFID

OneStop. Screen shot is from the first showing of the OneStop at Midwinter ALA 2006.

Envisionware print/reservation station can be upgraded to OneStop at a very modest cost.

- print and reservation
- check out
- check-in
- integrate with payment systems

CircIT Combo Station[®] Self Check-Out System

- Two screen self check out stations •
- patrons help themselves •
- staff can easily resolve blocks without leaving the circulation desk
- touch screen monitor
- fully customizable screens

http://www.tech-logic.com/solutions/selfservice.asp

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New line from new Bibliotheca RFID or Barcode

SmartServe 400

With RFID, put it in the box and it will read it.

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Tech Logic MyMobileLibrary Mobile self-check-out

application • Uses Boopsie • Check-out with smartphone

> Requires security kiosk to turn off security

Add-on for the SmartServe 400

- Attaches seamlessly
- offers convenient and secure way to accept multiple payment types
- Payment options include, chip & pin, debit and credit cards, coin and bills
- also offers coin return

Tech Logic MyMobileLibrary: App, Powered by Boopsie (Debuted in New Orleans)

- mobile self check-out application
- scan an item's barcode using their smartphone's camera to check out an item from anywhere within a library
- manage their library account
- powered by Boopsie
- patrons privately and securely check out items from anywhere within a library using a smartphone.
- MyMobileLibrary: Security Kiosk -Patrons place on kiosk shelf and the items' RFID theft bits are automatically deactivated if the items have been properly checked out
- Compatible with Android, BlackBerry, iPhone, and Windows Mobile.

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	S5000 and up MEDIA DISPENSERS



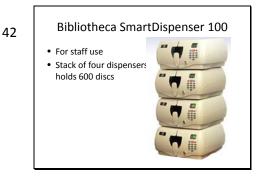
Formerly ITG DiscXpress

- 500 discs per tower
- inside are five carousels containing 125 items each
- Handles multipart sets nicely (up to 5 discs at a time)



Kiosk + one tower \$13,500 Each tower another \$5,000

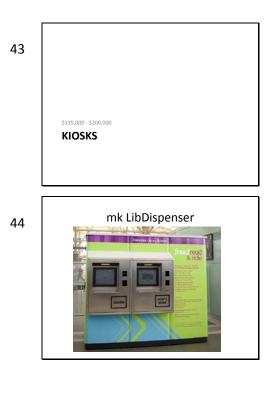
\$13, 500 500 discs \$27/disc \$18,500 1000 discs \$18/disc \$23,500 1500 discs \$16/disc \$28,500 2000 discs \$14/disc San Bernardino has one.

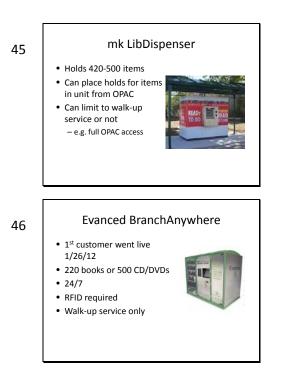


aka LAT-Stena for Staff Use

- Dispensers contain 150 disks
- Stack 4 dispensers for total of 600
- Daisy chain three stacks (1800 discs max)

\$5000 Base unit (600 discs) plus \$1300 per "dispenser" (150 discs) -\$8/disc?





Mk LibDispenser (Milbrae) \$160,000 plus install which can be significant

Capacity: 500 books

Two models: one or two screens

- Two screens allow a person to browse while another person returns or picks-up items
- Can be more confusing...
- OPAC access (optional)

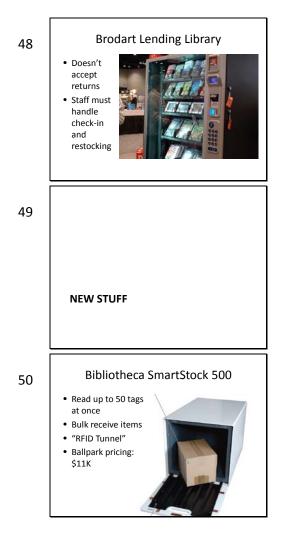
Alameda Free Library (Red Box style)

- Configured for "walk up" use only
- No browsing the catalog, just items inside

\$140,000

- 1st customer went live 1/26/12 (and they're happy!)
- 220 books or 500 CD/DVDs
- 24/7
- RFID required
- Walk-up service only





\$140,000

1st install: Pittsburg Point BART Library-A-Go-Go

- Targeting > 20 miles from a library outlet and commuters
- Very popular
- Hasn't been easy going: lots of fiddling required (thanks Contra Costa!)
- Signing up lots of new patrons

\$20,000

Connect to ILS (or not)

• If not, batch updates to ILS required

Don't accept returns so labor intensive But they're a hit!

If you took the RFID survey, you heard about an "RFID Tunnel"

- Used in UK, but not here (yet).
- Put your box of stuff from B&T in the tunnel and everything inside gets checked in. (up to 50 items)
- \$11K

Bibliotheca SmartStock 600

- Detects items on the shelf in real-time
- Can search for items and find out where they actually are
 Utilizes cover-flow display to assist in

searching



52 RFID Standards • What's New - ISO 28560 established - US likely to go with ISO 28560-2 • Why it matters

- Do more with RFID tags
- RFID Interoperability!
- More info in Open Source and RFID Update

 Available from <u>http://bit.ly/wh7193</u>

Another new thing from Bibliotheca – SmartStock 600

- Fits onto existing library shelves
- Includes antenna every foot plus reader at the end of the section
- Connected to ILS via LAN
- Powered by Ethernet
- Pricing may change but now approximately \$250 per 3' section
- What's New
 - ISO 28560 established
 - US likely to go with ISO 28560-2
- Why it matters
 - Do more with RFID tags
 - RFID Interoperability!

http://galecia.com/presentations/



Brand new product from Tech Logic: MediaSurfer

- released at Midwinter ALA
- libraries manage content and configuration
- patrons can also download whatever they wish during their use of the device
- Upon return, system wipes all activity and downloads and restores the device to the default (library) configuration
- Credit card swipe is optional

