P.V. SUPA
Process Improvement Applications

Libretto Automated Material handling system

Libretto Automated Material Handling System (AMHS) made by P.V. Supa is a fully modular system, suitable for all kinds and sizes of libraries, with a minimum of one sorting position up to a maximum of 255 sorting positions.

Libretto AMHS is a modular construction, each module being responsible for a specific function in the AMHS. Because of this, the AMHS can be customized to fit the needs of any library. The modularity makes installing the system to a library easy, even in existing facilities. The modular structure also enables the devices to be extended and reconfigured later, for example by adding sorting positions or inlets.

While designing the AMHS, P.V. Supa has taken into account the needs of the library's own logistics needs. There are several different addons to choose from which will help handling returned material and improve workplace ergonomy.
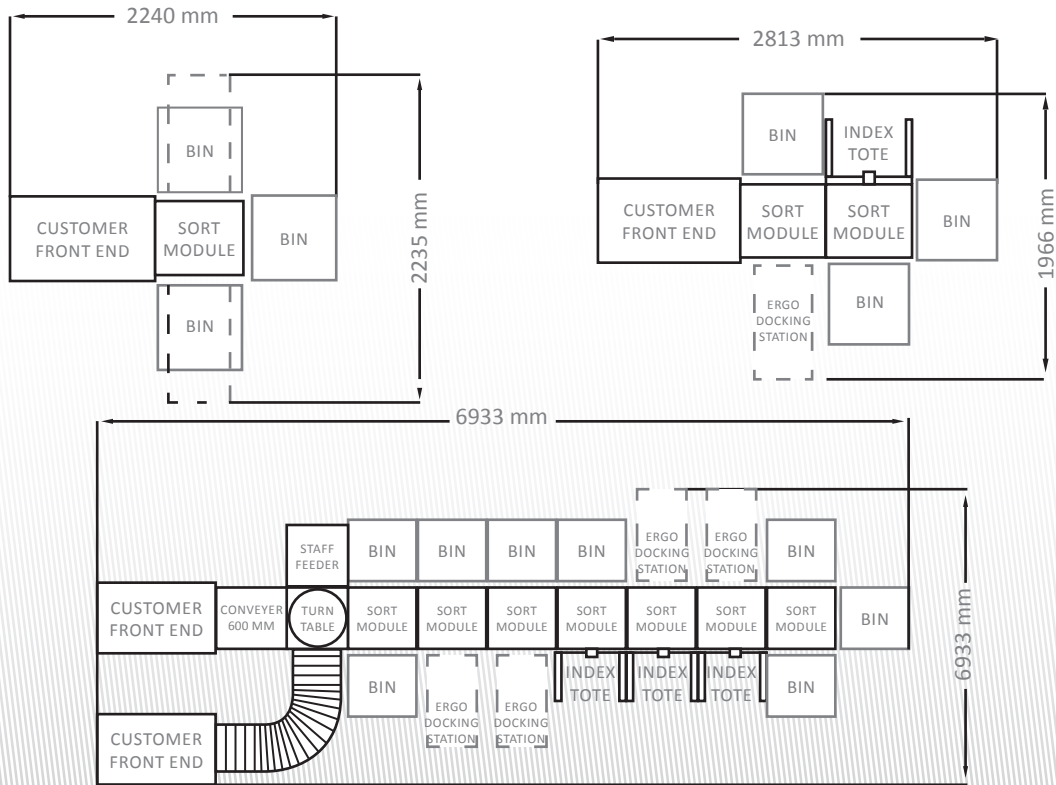
› **Fast sorting**

› **Very quiet**

› **User friendly**

› **Ergonomic sorting furniture**

› **Fully modular design**

› **Redoable layout**

LIBRETTO PROGRAM

Libretto software has been in use for over a decade all over the world. It provides a clear and easy to use interface for patrons to operate the AMHS device with. Libretto has an easy and flexible connection to a library system using standard SIP-protocol. Libretto has unlimited number of choices for sorting the returned material, and sorting can be easily adjusted by the library staff.

SORTING

Libretto can use either the sorting data from a library system or the sorting rules can be based on information returned in SIP messages. Libretto can handle an unlimited amount of sorting categories, and the sorting can be easily adjusted by library staff at any time.

PROGRAM OPTIONS

PV-Messaging is used to distribute information from P.V. Supa's units to the library staff stations with Message board software, staff mobile phones with text messages or via email. PV-Messaging sends information about different situations that require staff to take notice, or about possible errors in the system. This allows the device to be left unattended because it will notify the staff if it needs attention.

GENERAL:
› Functions: Check in, Offline- functionality
› Item Identification: RFID, Barcode
› Security: RFID (AFI/EAS), EM(Colinear/3M)
› RFID Standards: ISO 15693, 18000-3-1
› RFID Data Models: DDM, KATVE, TechLogic, TV2, 3M, TRC, ITG, ITG2, ISO28560

COMPATIBILITY AND PROGRAMS:
› Operating system: Windows XP or 7
› Software: LibRetto 2
› Easy to use – user interface
› Sorting into unlimited amount of categories
› Sorting either from server or from LibRetto 2 software
› Reporting and statistics management
› Remote management
› Customized software features
› Centralized information management system
› Connectivity: Protocol: TCP/IP, LMS: SIP 1 SIP2, NCIP

TECHNICAL INFORMATION:
› Item maximum size (WxLxH) 320 x 360 x 120 mm
› Sorting speed: 1440 item/h
› Touch screen size: 15", 17"
› Printer: 80 mm Thermal printer
› Input Voltage: 100-240 V
› Power Usage (3-bin sorter) Standby: 160 W In use: 320 W
› Dimensions: depends on sorter configuration
› Unit weight: See module specific weights
› Color: Any possible RAL color
› Certificates: C€