

swisslog

Selective  
Vertical  
Conveyors

Selective Vertical  
Conveyors with  
Matrix™ Software



# Product description

Swisslog's Selective Vertical Conveyor (SVC) system is a versatile vertical conveying system that provides high volume delivery of mail, parcels and supplies via fiberglass tote boxes to various floors and offices in multi-level buildings. Dispatch/ receive stations are generally arranged vertically in a common shaftway, but can also be located horizontally remote from the shaftway with an automated horizontal conveyor interface.

Unlike conventional single car lifts, the SVC system can provide continual sequential dispatch of up to 12 containers per minute per station at speeds up to 68 feet per minute. Multiple random transactions can be processed simultaneously and all routing and handling is automatic from dispatch to receipt. All stations have the ability to send to any other station unless programmed otherwise.

Swisslog's SVC is fully microprocessor controlled in both destination memory and component actuation. System traffic information and advisories are updated on a master System Controls Center (SCC) and optional printer.

A single SVC system can reach heights up to 830 feet with 120 stations. Multiple vertical conveyors can be included in a single SVC system for virtually unlimited height and station restrictions. The vertical conveyor consists of a chain, drive section, take-up section, guide rails, and cars.

All items are transported inside fiberglass totes (trays) or in enclosed aluminum food service carriers custom designed for the transport of multiple food trays. Totes are available in 4 standard sizes and custom totes can be created to fit individual applications. Each SVC tote can accommodate a payload up to 60 lbs.

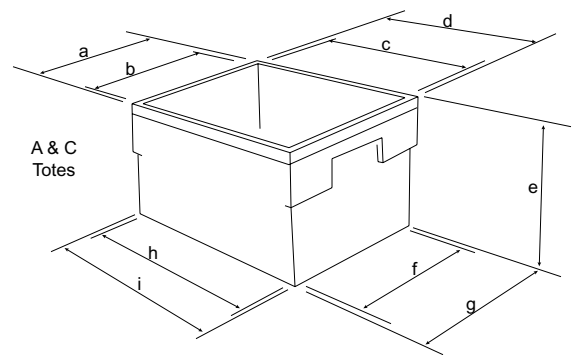
Swisslog SVC Firedoors are stainless steel and U.L. rated. The door is normally held open with fuse links or with electromagnets which are maintained by a signal from the building smoke and fire detection system.

## Totes

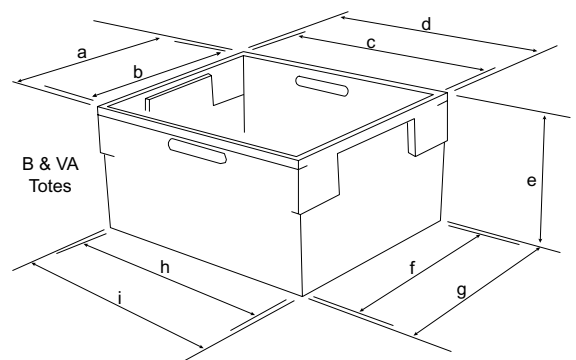
Fiberglass totes are available in 4 standard sizes: A, B, VA and C. Customized totes can be developed for special applications.



	<b>Tote A</b>	<b>Tote C</b>
<b>a</b>	12"	16 1/2"
<b>b</b>	11 1/2"	14 1/2"
<b>c</b>	15 7/8"	19 3/8"
<b>d</b>	16 1/2"	22"
<b>e</b>	10"	8"
<b>f</b>	10 1/8"	14"
<b>g</b>	10 5/8"	14 7/8"
<b>h</b>	14 1/2"	18 3/4"
<b>i</b>	15 1/8"	20 7/8"



	<b>Tote B</b>	<b>Tote VA</b>
<b>a</b>	17"	17"
<b>b</b>	15 1/4"	15 1/4"
<b>c</b>	18 7/8"	18 7/8"
<b>d</b>	20 1/2"	20 1/2"
<b>e</b>	10"	12"
<b>f</b>	14 3/8"	14 3/8"
<b>g</b>	14 7/8"	14 7/8"
<b>h</b>	18"	18"
<b>i</b>	18 3/8"	18 3/8"



# SVC Matrix™ upgrade

SVC systems that are mechanically controlled can be easily upgraded to utilize a state of the art System Controls Center (SCC) computer with Swisslog's new SVC Matrix Software. The new controls replace hard-to-find and obsolete electronic components.

Swisslog's LCD SVC station panels have a large LCD message window that provides useful feedback to the user and optional 8 resets for remote personal indicators.

Upgrading your SVC provides new, more reliable photo sensors at every station. The new photo sensors are less expensive to replace and easier to maintain than existing electrical type sensors. This can reduce the number of on-site spare parts.

Trouble-shooting the system is simplified with the new SVC Matrix software. Matrix controls and monitors all devices while monitoring, tracking, and recording all tote transactions and alarm information. The progression of each car and transaction is monitored by the new SCC.

The user configurable Windows™ display can easily be customized to the user's preferences.

Tote boxes, destination, and car data is clearly displayed on the computer screen.

Misdirected tote boxes due to mechanical car tabs not being set properly are eliminated with electronically-controlled transactions.

Matrix is the next generation control software developed by and used exclusively by Swisslog. The Matrix software gives users control over their SVC system within a modern Windows environment, using methodologies and graphical user interface. Training users and maintenance personnel to operate Matrix software is simple.



## Features

- *Tote Call* allows empty totes to be called to various stations
- Recirculation allows for a tote to re-visit a full station
- *Station Sign-Off* - totes cannot be dispatched to a closed station
- Tracking of system activity
- Expandable
- Comprehensive Preventative Maintenance program available

## Benefits

- Reduces elevator traffic for staff use
- Minimizes traffic congestion in common areas
- Promotes a security conscious environment
- Provides fast, efficient delivery of priority communications
- Reduces manual transport and enhances valuable staff time
- Provides a quiet, non-disruptive work environment

# Selective Vertical Conveyor Specifications

Maximum number of stations: 120

Maximum overall system height:  
Single Conveyor - 830'  
Multiple conveyor - Unlimited

Payload Capacity:  
60 lbs. per tote

Dispatch Rate:  
Up to 12 totes per minute

Chain Sizes:  
Vertical Conveyor  
2", 3" and 4" pitch  
Branch lift 1.25"pitch

Horizontal Conveyor Belting:  
14" or 16" wide

## Power Requirements:

Vertical Conveyor:

Top Floor:

*Drive Motor:*

One 208-230/460v-3ph-60hz @  
1, 1.5, 3, 5 or 10 hp source

*Shaft Controls:*

Two 120v/1ph/60hz/20a or  
Three 120v/1ph/60hz/20a\*

Every 5th floor:

120v/1ph/60hz/20a source

Floor with Motor Station:

120v/1ph/60hz/20a

Horizontal Conveyor Motor:

208-230-460v/3ph/60hz, 20a  
source, 1/2, 1, 1 1/2 hp

Branch Lift Motor:

120v/1ph/60hz source

System Controls Center (SCC):

Minimum PC configuration

\*Required if fire doors have  
electromagnetic release.



## swisslog

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