

## Vertical Transportation Module (VTM)

### Technical Data Sheet

The Vertical Transportation Module connects two different automation systems located on different floors, or two tracks of the same automation system located on different floors. A Lifting System allows the sample tube exchange between the two floors. In particular, the VTM is composed of three sub-systems:

- VTM node on lower floor that routes carriers toward the upper floor;
- VTM node on upper floor that routes carriers toward the lower floor;
- VTM belt equipped with Porters that moves carriers from one floor to another.

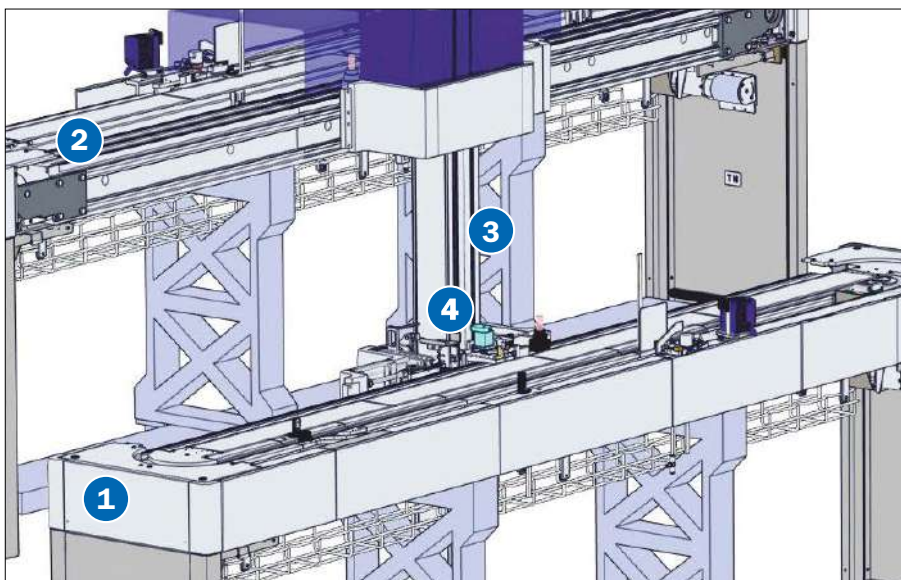


### Benefits

- > Transportation on different floors of sample tubes without generating sample resuspension
- > Automatic transportation of sample tubes among different lab levels
- > Maintenance and guarantee of sample tubes traceability among different lab levels

### Applications

- > Connection among automation systems installed on different lab levels in presence of space constraints
- > Automatic Connection of different specialties in different floors, e.g. Microbiology



- 1 Track on Lower Floor
- 2 Track on Upper Floor
- 3 Lifting System
- 4 Porters on Lifting System



## Main Features

|                               |                              |
|-------------------------------|------------------------------|
| Throughput                    | 2400 tubes/h                 |
| Walk-away capacity            | Always automatically loaded  |
| Tube specifications           |                              |
| Sample type                   | All (spun and unspun)        |
| Cap type                      | All (Capped and Uncapped)    |
| Dimensions (mm)               | 13x75, 13x100, 16x75, 16x100 |
| Position along the automation | Depends on the configuration |

## Other Features

- > The VTM moves both empty and full carriers from one floor to another
- > The Unloading Units allows the passage of the sample carrier from the track to the Lifting System
- > The Lifting system allows to move the sample carriers from one floor to the other by means of porters
- > The Loading Units allows the passage of the sample carrier from the Lifting System to the track on the other floor

### Technical Specifications

|                                             | Level 0      | Level 1      |
|---------------------------------------------|--------------|--------------|
| Dimensions (LxHxD) (mm)                     | 600xN.A.x170 | 600x1780x170 |
| Main clearances (left x right x front) (mm) | 700x700x630  | 700x700x630  |
| Weight (Kg)                                 | 60           | 50           |
| Compressed air (NL/min)                     | 9.9          | 9.9          |
| Power inlet point                           | 230 Vac      | 230 Vac      |

|                                | Level 0 | Level 1 |
|--------------------------------|---------|---------|
| Maximum continuous current (A) | /       | /       |
| Maximum alternate current (A)  | 1.3     | 1.7     |
| Total power consumption (VA)   | 299     | 391     |
| Heat (BTU/h)                   | 813.3   | 1063.5  |

N.A. = Not Available.

### Ordinary Maintenance

|                       |                                            |
|-----------------------|--------------------------------------------|
| Operator <sup>1</sup> | /                                          |
| Service <sup>2</sup>  | Every 90-365 days, according to operations |

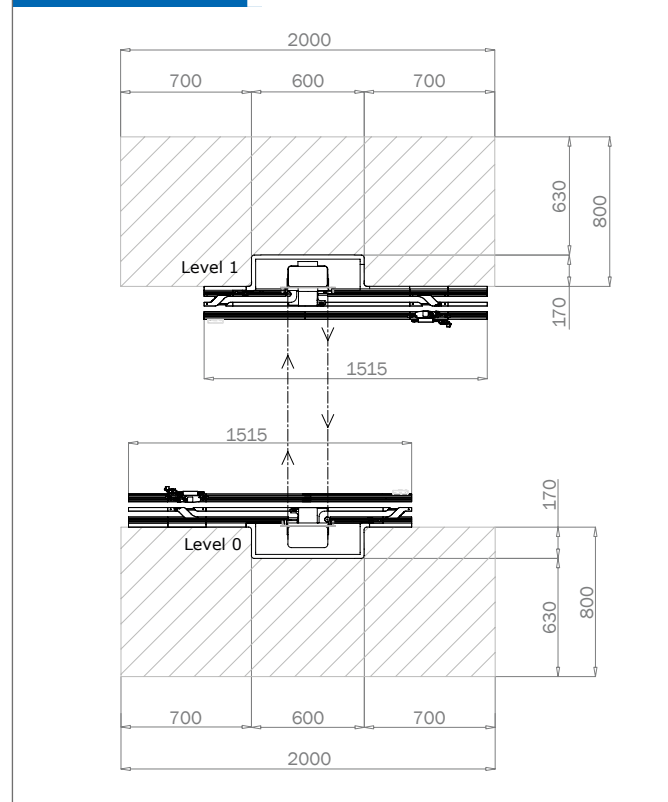
<sup>1</sup>According to Operation Manual. <sup>2</sup>The periodicity depends also on the routine number of tubes/day. For more details refer to Service Manual.

### Part Numbers

|                    | FlexLab Standard | FlexLab HT |
|--------------------|------------------|------------|
| Main module        | N.A.             | FLX-204-10 |
| Slot               | N.A.             | FLX-504-10 |
| Configuration (1m) | N.A.             | FLX-075-00 |

N.A. = Not Available.

### Technical Drawing



Module dimensions and clearances expressed in mm.

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reference code: SSF-VTM 20.01  
version n°: EN01