

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, 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.

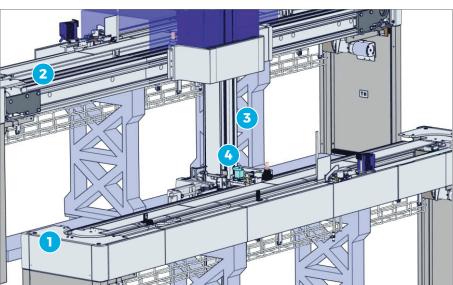


Benefits

- > 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 Systems
- (4) Porters on Lifting System

Main Features

Throughput	Up to 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	

The maximum throughput calculations are obtained in optimized and standardized conditions, as tested by Inpeco.

Other **Features**

> VTM consists of a Sampling Master, a Sampling Slave, Loading Units Master and Slave, Unloading Units Master and Slave, and a Lifting System to Porters

Unloading Units Master allows the passage of the Sample Carrier from Sampling Master to Lifting System

- > Lifting system allows the passage of the carriers from Sampling Master to Sampling Slave located on different floors by means of porters
- > Loading Units Master allows the passage of the Sample Carrier from Lifting System to Sampling Master
- > VTM moves empty and full carriers from one floor to another

Level 0	Level 1
600x N.A.x170	600x 1780x170
700x 700x630	700x 700x630
60	50
9.9	9.9
230 Vac	230 Vac
	600x N.A.x170 700x 700x630 60 9.9

	/
	1.7
9	391
3.3	1063.5
	9

Operator1

Every 90-365 days, Service² according to operations

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

Part Numbers	FlexLab™	FlexLab™ for High Throughput
Main Module	N.A.	FLX-204-10
Slot	N.A.	FLX-504-10
Configuration (1m)	N.A.	FLX-075-00

N.A. = Not Available.

2000 700 600 700 1515 1515 Level 0 630 700 600 700 2000

Module dimensions and clearances expressed in mm.

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