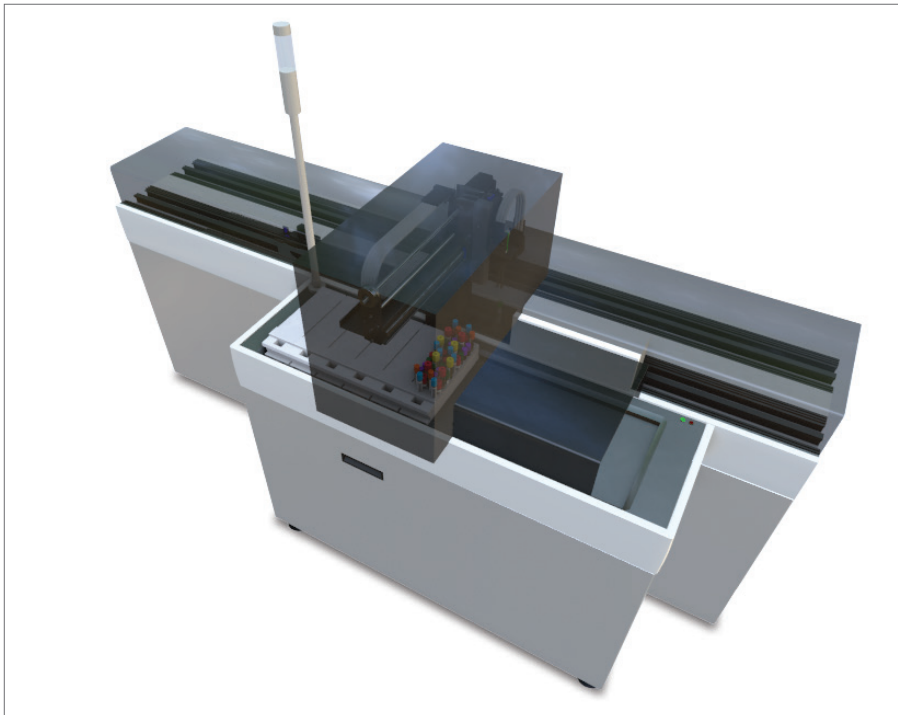# Rack Input Module (mRIM)
Technical Data Sheet

The Rack Input Module provides a point of sample tube input, barcode tube identification and tube type identification. The Rack Input module is able to process simultaneously different tube types and sizes, centrifuged or not, capped or uncapped, sealed or unsealed.
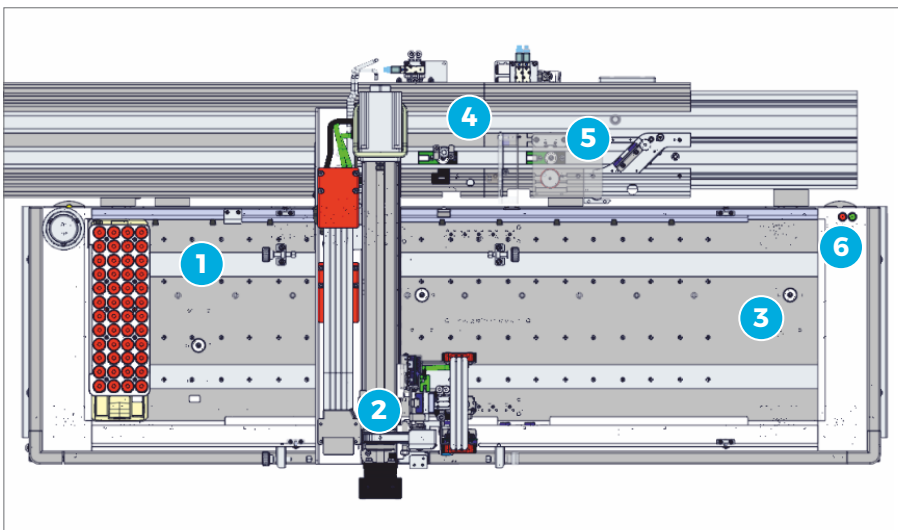

Benefits

> Fast and easy loading of sample tubes from rack onto automation track

> Handles various tube types and sizes, spun or unspun, capped or uncapped

> Full traceability of the sample journey

Applications

> Loading of sample tubes in racks

1 Loading Rack Position

2 Robot

3 Unloading Rack Area

4 Loading Gate

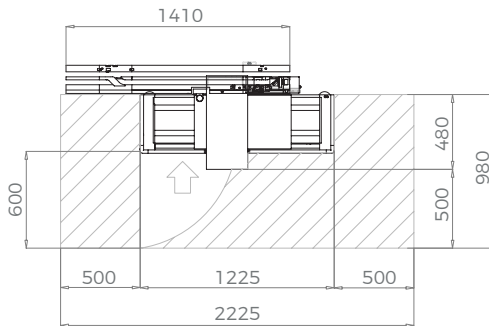5 Tube Identification Module (TIM)

6 LEDs

Main **Features**

Throughput	Up to 1000 tubes/h
Walk-away capacity	288 tubes
Tube specifications	
Sample type	All (Spun and Unspun)
Cap type	Capped, Uncapped, Sealed, Unsealed
Dimensions (mm)	13x75, 13x100, 16x75, 16x100
Position along the automation	Input Area

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

Other **Features**

> The mRIM can locate 6 48-positions racks, uniquely identified by specific antennas

> The mRIM allows automatic sequential loading of sample tubes according to FIFO (First In-First Out) logic

> The mRIM Racks Transport Belts, driven by a motor, have a nominal speed of 80 mm/s ± 5%

> The mRIM has two LEDs (one red LED and one green LED) that alternatively light up according to belt functioning

> The mRIM is allowable in the configuration with Tube Identification Module (TIM)

Technical Specifications

Dimensions (LxHxD) (mm)	1225x1530x480	Maximum continuous current (A)	/
Main clearances (left x right x front) (mm)	500x500x600	Maximum alternate current (A)	2
Weight (Kg)	120	Total power consumption (W)	460
Compressed air (NL/min)	5.06	Heat (BTU/h)	1251.2
Power inlet point	230 Vac		

Technical Drawing

Module dimensions and clearances expressed in mm.

Ordinary Maintenance

Operator[1]	/
Service[2]	Every 90-180 days, according to operations

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

Part Numbers	FlexLab™	FlexLab™ for High Throughput
Module	N.A.	FLX-214-11
Slot	N.A.	FLX-545-11
Rack	N.A.	0A00026366

N.A. = Not Available.