



Automatic Receiving Station



Automatic Receiving Station QCX® PTR102 Mk II

The PTR102 Mk II Automatic Receiving Station provides a safe and reliable connection between pneumatic transport tube systems and the RoboLab, protecting workers and boosting productivity. It is best suited to receive materials such as ores, cementitious materials, raw materials, fine chemicals and more.

The sample arrives in a carrier and is dosed into one or more cups for handling and processing in the RoboLab. Automatic functionality allows the receiving station to achieve a fast turnaround time from sampling to analysis with correct timestamps included. Efficiency is also achieved by dosing multiple recipes.

Seamless standardised integration in the QCX RoboLab/ AutoSampling system means there is no labour capacity needed to do the job. Tasks are handled quickly with no waiting times and no risk of mixing samples.

The PTR102 Mk II Automatic Receiving Station is known for improved product quality, which relates to operational savings.

Advantages

- Safety: the PTR102 Mk II Automatic Receiving Station increases overall plant safety by cutting the risk of your operators being exposed to the harsh environment, including fine powder dusts and fast-moving equipment.
- High availability: waiting for other samples and maintenance stops can slow sampling down, but with automation, these delays are much easier to make up. The PTR102 Mk II Automatic Receiving Station has been known to handle up to 24 / 18 / 12 incoming carriers per hour (depends on recipe: each incoming sample is divided into 1 / 2 / 3 subsamples).
- Easy connectivity: integration with automatic sample preparation systems is seamlessly achieved, particularly with the QCX suite.

Faster turnaround from sampling to analysis

How it works

The PTR Automatic Receiving Station is designed for receiving carriers from various sampling points that are connected to sending stations and pneumatic tube transport.

When the carrier is received, it is automatically opened and discharged into the funnel. Stop slides under the funnel define and control doses of material going into cups. Carriers are also cleaned and automatically closed.

The PTR102 Mk II Automatic can be operated in fully automatic mode where robots take the cups from the station, or whole sample dosed in 750 cc cup can be collected manually. A strain gauge located under the cup make it possible to check how much sample is dosed into a cup.

Possible configuration

Robot automation

The PTR102 Mk II Automatic Receiving Station is designed for volumetric dosing with robots collecting samples.

Belt automation

The receiving station can be seamlessly integrated with automatic transport systems that have belt systems installed.

Specification

Sample material	Dry, non-sticky, up to 80°C, top size 6 mm
Sample quantity	Up to 500 cm ³
Type of carrier	Long (122664) / optional short (107566)
Type of sample cup	CUP 100 / CUP 110 / CUP 750
Dosing increments	25 / 50 / 75 cc
Power supply	3 x 380 – 500 V; 50/60 Hz; 0.5 kW
Compressed air supply	0.6 – 1.0 MPa (Quality 1.4.1 as per ISO 8573-1)
Operating conditions	Temperature: 5°C to 35°C Humidity: 20 – 80 %, non-condensing
Weight	Approx. 395 kg
Dimensions (W x D x H)	480 x 1,080 x 1,920 mm



Robot automation



Belt automation