



# QCX® PSH100 INSPECTION SAMPLER, HOT MEAL

The PSH100 Inspection Sampler is suited for use with hot materials such as kiln feed as well as material at all levels of the calciner/pre-heater tower. Sampling site temperature can be as high as 1,150°C.

Sampled material provides the basis for correct characterisation of hot meal process conditions for quality control. Also, correct characterisation of materials in the pre-calciner helps you avoid clogging and blockages of the calciner, potentially saving you from expensive repairs and downtime.

As a fully manual inspection sampler, safety was the key priority in mechanical design. It has many inbuilt safety features to protect your operators from backfire and dust exposure and to prevent burns caused by exposure to hot material streams. The bucket can only be removed when the connection to the material stream is closed. Further, sample discharge is only possible with a mounted bucket.

## ADVANTAGES

- **Cost-efficient:** offering exceptionally high-level accuracy and safety, this inspection sampler is a great option for laboratories on a lower budget, or that have a lower capacity and no need for complete automation.
- **Representative sampling:** the sample is taken in the middle of the stream in a representative and reproducible way. This provides a very fast snapshot of the status of the process, preventing expensive damage if reactions are wrong.
- **Safety:** manual inspection normally comes with health and safety concerns, but this inspection sampler is carefully designed to minimise risk and protect your operators.

# ROBUST AND REPRESENTATIVE MANUAL SAMPLING

## How it works

The Inspection Sampler takes a spoon sample of hot material up to 1,150°C directly from the chute of the pre-calciner. Its mechanical design gives it a robust operation under these harsh conditions.

In idle mode, the sampling spoon sits retracted away from the hot raw meal and from the hot gasses inside the sampler body.

Your operators collect the sample manually via a designated sample container.

## Possible configuration

Robust and versatile design means the Inspection Sampler can be installed directly in any chute under the cyclone of pre-heater towers.

## Specification

Sample material	Up to 1,150°C, top size 1 mm
Sampling location	Kiln feed, cyclone / pre-heater stages
Sampling type	Spot sample
Sample quantity	Approx. 0.8 l
Sample frequency	< 6 samples / hour
Operating conditions	Temperature: -20°C to 55°C Humidity: 0 – 100 %
Weight	Approx. 65 kg
Sampler dimensions	930 x 600 x 1,140 mm



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