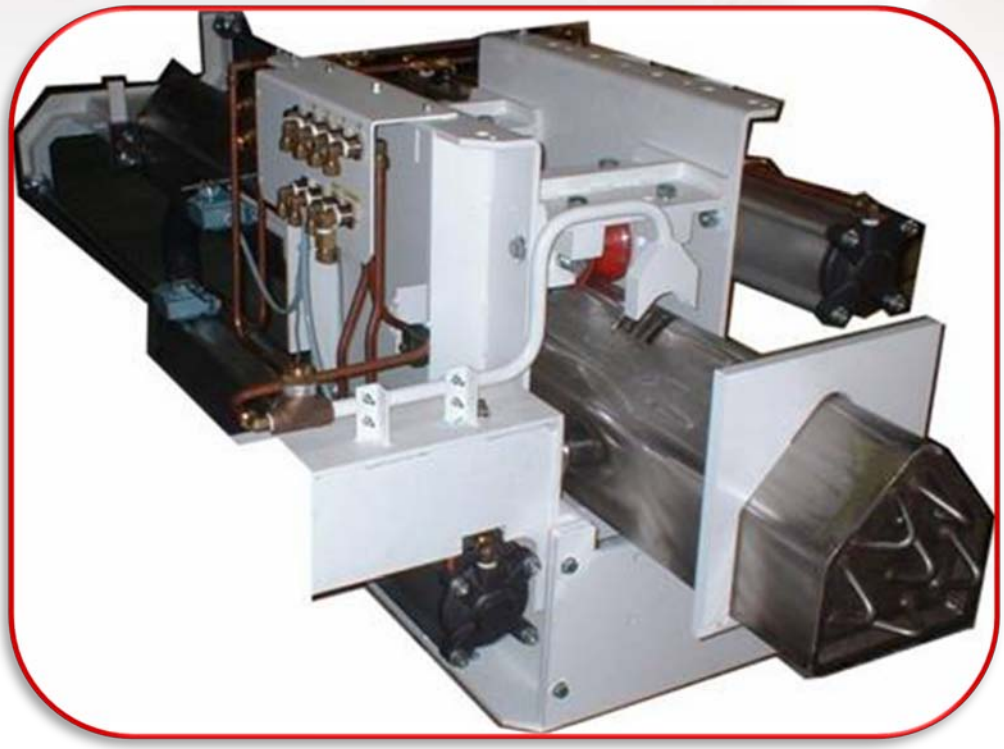
# CLINKER SAMPLER PHT100



**EQUIPMENT DESIGNED TO COLLECT A PREDEFINED QUANTITY OF CLINKER AT KILN DISCHARGE**

**Several particle size ranges available (Standard: 2-12 mm)**

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## DESCRIPTION

This **PHT100** sampler, positioned at the fall of the kiln before the cooler, is designed to take clinker samples with a temperature as high as 1500°C. The advantage of taking a sample directly at kiln discharge is that it considerably reduces the lag time between the clinkerization process and the moment the information regarding the free lime value is known.

This sampler is composed of a **refractory steel** beam continuously cooled by a blower. This beam is introduced, thanks to two pneumatic jacks, into the flow of clinker and sample is collected through slots located on top of the beam. The beam is then withdrawn from the clinker flow and collected sample is cooled by blown air and evacuated to a discharge spout with the help of a jack installed perpendicularly to the beam.

On top of the beam, the sampling slots allow the selection of the maximum particle size of the sample (12 mm as a standard); under the discharge spout a selection grid allows the elimination of the undesired portion of the sample (particle size < 2 mm as a standard) which is then transferred to the drag chain of the cooler.

## SPECIFICATIONS

- The sampler is fixed on to the existing structure by custom designed supports
- The inverted V shape of the upper part of the beam facilitates material flow
- The beam is guided by two sets of lower and upper rollers
- In the resting position, the front end of the sampler is flush with the wall of the cooler and serves as a plug.
- This sampler can either be controlled remotely in conjunction with one of our analyzers or locally through an independent control cabinet
- Maximum length of the sampling beam : 4 300 mm
- Jacks: driving jacks = ∅ 125 ; discharge jack = ∅ 50
- Flow rate of the beam cooling blower : 1 000 $m^3$ / h
- Maximum sample particle size : 30 mm (standard = 12 mm)
- Eliminated portion of the sample : < 2 mm (standard) and up to < 8 mm
- Sample volume: depends on maximum particle size (standard = 300 $cm^3$)
- Maximum sample temperature : 1500 °C
- Power supply : any from 380 to 600 V; 50-60 Hz
- Compressed air supply : 6 bars, clean & dry

## ADDITIONAL EQUIPMENTS

- Sampling automation
- Sample transport
- Sample storage
- Preparation and analysis



Tél.: +33 (0)4 42 97 77 00 / Fax : +33 (0)4 42 97 77 33 / www.iteca-socadei.com / info@iteca.fr
445, Rue Denis Papin - Lotissement du Tourillon - CS 30478 - 13592 AIX EN PROVENCE CEDEX 3 - FRANCE

ITECA SOCADEI