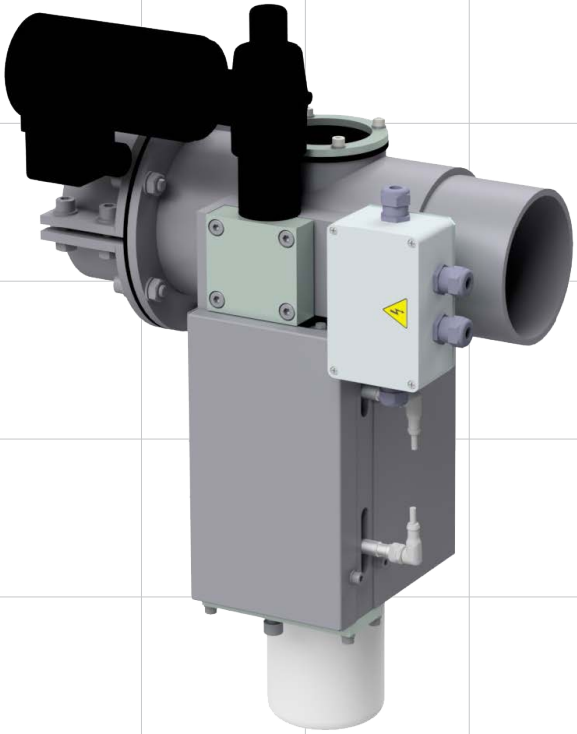
Quarry Drill Sampler



QCX® PSD101 QUARRY DRILL SAMPLER

The PSD101 Quarry Drill Sampler is a unique system the for collecting of sample from a quarry drilling machine. It features an electrically operated sampling pipe with a reliable and robust sampling tube that is extended into the material flow to collect a representative sample for complete traceability.

The sampler's small compact size allows for best position installation in front of a cyclone in order to achieve representative sampling; a position that allows good access to the material stream and yet is as far away as possible from flow disturbances, bends and flow barriers.

The sampling tube has a small dimension which is out of the material stream in its initial status allowing for minimal influence to material flow.

ADVANTAGES

- **Representative, consistent and robust sampling:** the quarry drill sampler's ability to sample from an ideal position in the material flow, and its robust sampling finger, ensure accurate sampling results.
- **Easy installation:** sampler installation requires minimal intervention in the quarry drill machine.

REPRESENTATIVE, RELIABLE AND ROBUST SAMPLING

How it works

The sample is collected during drilling directly from the material flow between the suction tube and the filter of the drilling machine. The sample is carried out by shifting the sampler tube through the full profile of the material flow in the drill connection tube.

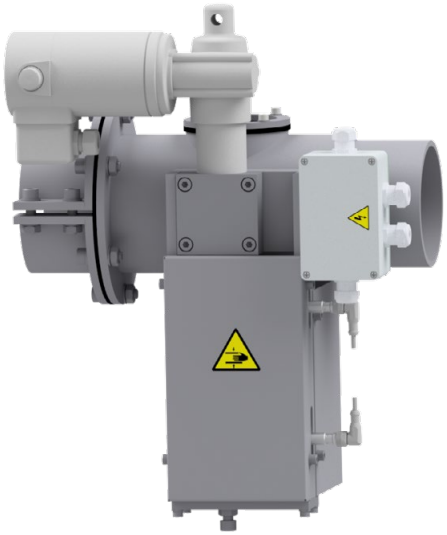
Incremental samples are collected in the plastic container in layers equal to the drilling material layers in the quarry. The schedule of the sample taking depends on the time setting in the small PLC built into the control box.

Possible configuration

Semiautomatic quarry drill sampler (PSD101)
The sampler can be customized according to the customer's request for specific dimensions of the material transport hose between the drilling head and the cyclone.

Specification

Sampler connection diameter	110 – 200 mm
Sample material	Dry, non-sticky, up to 80°C, top size 6 mm
Sampling location	Drilling machine cyclone input
Sample type	Incremental sample
Sample quantity	Adjustable by time
Sample frequency	< 6 incremental samples / minute - Adjustable by time
Power supply	24 V DC, 10 A
Operating conditions	Temperature: -20°C to 55°C, Humidity: 0 – 100 %
Weight	Max. 60 kg including control box
Dimensions (W x D x H)	
Sampler	Max. 400 x 300 x 700 mm
Switch cabinet	300 x 130 x 300 mm
Control panel	125 x 70 x 100 mm



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