



POLAB®  
Sampler, pneumatic  
delivery system and laboratory  
equipment

Polysius



ThyssenKrupp

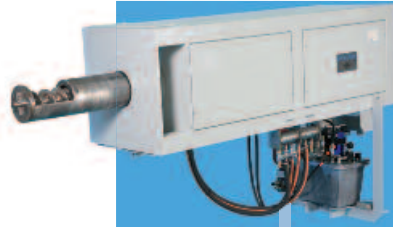
# POLAB®

## Sampler, pneumatic delivery system and laboratory equipment.

Plant side



Screw sampler for raw meal or cement. Installation in a chute.



Hot meal sampler. Water-cooled screw sampler made of special steel. Installation in the hot meal chute.



Pneumatic tube: pneumatic delivery network made of precision steel pipe.

Sample dispatch station with sample mixer for collective samples and spot samples with pneumatic material return system.



Pneumatic delivery tube diverter for connecting two pneumatic delivery lines.



Pneumatic delivery capsule: 350 cm<sup>3</sup> volume.



Laboratory

Forwarding air blower.



semi-automatic laboratory

fully automatic laboratory



Semi-automatic pneumatic delivery receiving station with magazines for received and empty capsules.

Alternative: manual pneumatic delivery receiving station.



POLAB® APM sample preparation module with vibratory disc mill and tablet press.

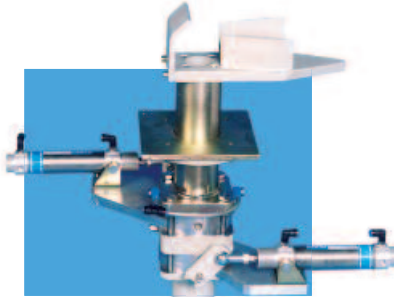
Options: sample input magazine, sample output magazine, connection of XRF and XRD by tablet conveyor belt.



Clinker sampler. Installation at the discharge end of the clinker conveyor belt.

Alternative: sampling clinker on the cooler grate.

Screw sampler for coal dust. ATEX-certified.



Trough-type sampler for raw meal or cement. Installation in a pneumatic trough conveyor.

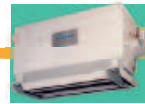
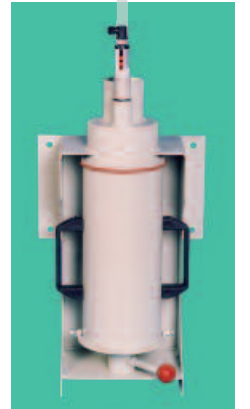
Jaw crusher.




Alternative: sample dispatch station without sample mixer.



Container for manual sample conveyance.



 POLAB<sup>®</sup> ACT automatic laboratory unit for 8 to 10 samples/hour\* with pneumatic delivery receiving station and sample preparation system (integral POLAB<sup>®</sup> APM). Connection of XRF and XRD by tablet conveyor belt. Option: integral laser granulometer.



The POLAB<sup>®</sup> Shuttle is the new laboratory automation system with unique flexibility.

Sample conveyance by mobile robot provides previously unachieved freedom regarding system configuration, upgradability and room layout.

Laboratory for 8-10 samples per hour

individually configurable laboratory

**POLAB<sup>®</sup> AQCnet Software**

- Client – Server structure
- .net technology / Web interface
- SQL database
- Adaptive mixture control