Storage Silo CC

The Storage Silo CC is a silo type for fluidizable mineral bulk materials. CC stands for "conventional cone" silo which is, in general, designed for silo diameters of 6 – 14 m. Standard aeration bottoms 3 m, 3,5 m, 5,5 m and 7,5 m are available.

Silo storage volumes of up to 5000m³ can be realized.

The standard design is suitable for the storage of

- **Easy flowing bulk materials, like cement or raw meal**
- **Hardly flowing bulk materials like fly ash**

Other bulk materials, like gypsum, quick lime, lime hydrate and others, can also be stored in the Storage Silo CC.

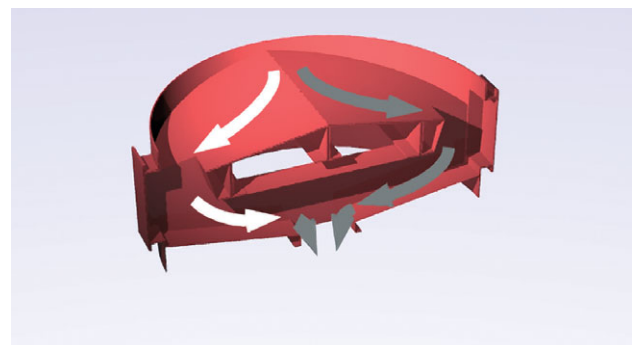### Advantages of Claudius Peters CC Silo

- **Silo principle first in / first out**
- **No dead material inside silo**
- **Excellent reclaim rate**
- **Application for small silo units**
- **Application for materials whose fluidization is limited**
- **Silo aeration system can be used for concrete or steel silos**
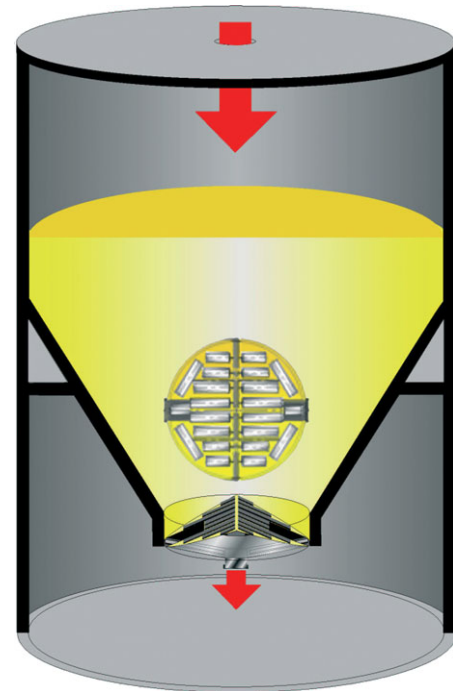
Flow principle of Claudius Peters CC Silo
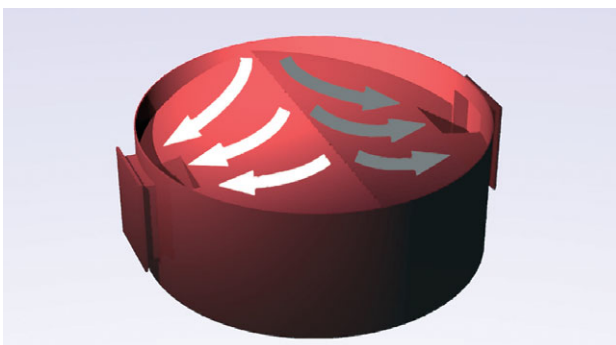
Sectionwise aeration to silo outlets

Discharge tunnel to center outlet

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Storage Silo CC

Effective Aeration Concept

The aeration sectors are aerated alternately for a certain time during the discharge procedure. This aeration/discharge sequence is independent from the filling procedure. The main target of the aeration technique is a controlled discharge with highest silo reclaim rate.

A blower compresses the required aeration air into the silo bottom. An integrated aeration air system controlled by shut-off flaps, aerates the two bottom sectors. The bulk material begins to come into a fluidizing phase. Supported by the gravitational force of the bulk material column the material flows along the inclined aeroslide to the outlet at the center of the CC-bottom by means of gravity.

Claudius Peters discharge equipment under the silo like flat shut off gates, feed boxes and flow control gates guarantee a controlled discharge flow.

Storage Silo CC under construction

Discharge tunnel under silo cone leads to continuous discharge conditions at outlet