

BULK SOLIDS HANDLING • BULK SOLIDS HANDLING • BULK SOLIDS HANDLING

SILOSYSTEM CEMENT

SPECIALISED SOLUTIONS
FOR STORAGE SILOS



Ongoing innovation respecting the environment

WAMGROUP®'s SILOSYSTEM CEMENT project is the innovative and concrete answer to the rapidly evolving needs of the building and construction industry. Our solutions are in line with the goals of sustainable development of the UN 2030 Plan.

MORE COMPACT PLANTS

Specialised vertical screw conveyors reduce plant footprint by up to 10 metres.

INCREASED PRODUCTION EFFICIENCY

Up to 25% more efficient mechanical cement conveying.

REDUCED POLLUTION

Reduction of CO₂ emissions of more than 9.1 t/year for a typical plant and dust emissions into the atmosphere below 1mg/Nm³.

SAFER PLANTS

Safer control during silo filling

COST REDUCTION

Removal of compressed air from the silo reduces the costs of manufacturing, installation and maintenance of plants.

REDUCED ENERGY CONSUMPTION

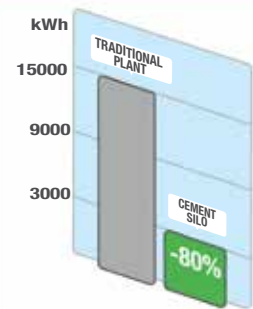
Reduction in energy consumption exceeding 14,000 kWh/year for a typical plant.

CO₂
-9,1 Tons/year



=
+ 450
trees/year

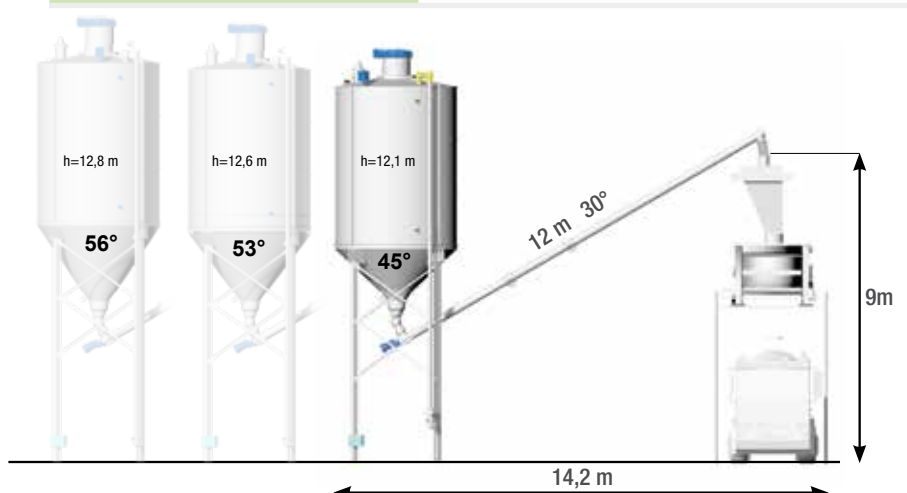
considering 20 kg/year of CO₂ absorbed by a single tree planted in an urban area



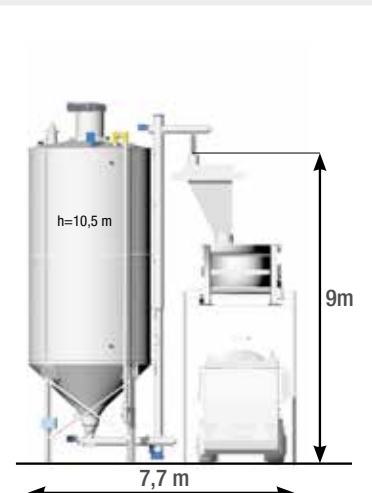
< 1
mg/Nm³

More compact plants

Removal of compressed air



Use of vertical screw conveyors



The silo

SPG 35

Bolted modular silos suitable for construction sites in seismic risk areas.



Silo filling

MECHANICAL CONVEYING



VE

Vertical screw conveyor

- Highly efficient
- Small footprint



EI

Bucket elevator

- Sturdy
- Easy to install and maintain

PNEUMATIC CONVEYING BY TANKER OR POWDER INJECTOR



VM MECHANICAL

Electro-mechanical pinch valve without compressed air



EXTRABEND™

- Abrasion-resistant
- Lightweight and easy to install



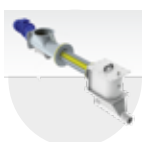
VM PNEUMATIC

Pinch valve



EXTRACURVE™

- Durable
- No risk of clogging



POWPUMP™

Powder injector for pneumatic conveying

Level and pressure monitoring

KCS

Silo safety system

- Prevents damage to the silo
- Limits dust emissions into the environment



VHS

Membrane pressure relief valve

- High safety level
- Channelled dust emissions



VCP

Spring-loaded pressure relief valve

- Reliable, lightweight and easy to install

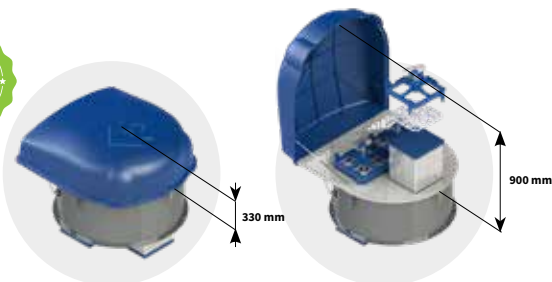


Silo venting

SILOTOP® polyTUBE™

Mechanically cleaned venting filter

- Compact, safe, dust emissions $<1\text{mg}/\text{Nm}^3$
- polyTUBE™ filter elements
- Low energy consumption and reduced noise impact
- High cleaning efficiency even during silo filling



MECHANICALLY CLEANED



SILOTOP® zero

Pneumatically cleaned venting filter

- Dust emissions $<1\text{ mg}/\text{Nm}^3$
- POLYPLEAT™ filter elements

PNEUMATICALLY CLEANED



Discharging

DUPLOCON™

Mechanical discharging system

- Low energy consumption
- Robust
- Replaces pneumatic aeration systems



Flow interception

VFP

Butterfly valves

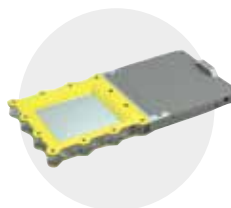
- Compact design
- Minimum residue



VIG

Low-profile slide gate valves

- Quick installation and maintenance
- Highly resistant to abrasion



ACTUATORS

Valve actuators

- Durable
- Unrivalled value for money thanks to mass production



Feeding, conveying and metering

NEW ES

MECHANICAL CONVEYING

Specialised cement screw feeder with suction effect

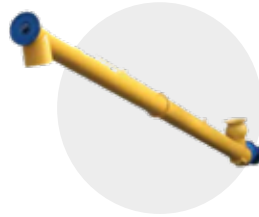
- Low energy consumption
- Constant feed rates
- Eases descent of cement from silo



ES

Specialised cement screw feeder

- Specialised screw feeder most widely used worldwide



VE

Vertical screw conveyor

- Highly efficient
- Small footprint



POWPUMP™

PNEUMATIC CONVEYING

Powder injector for pneumatic conveying

- High efficiency with packing and abrasive materials
- Easy to move from one silo to another

