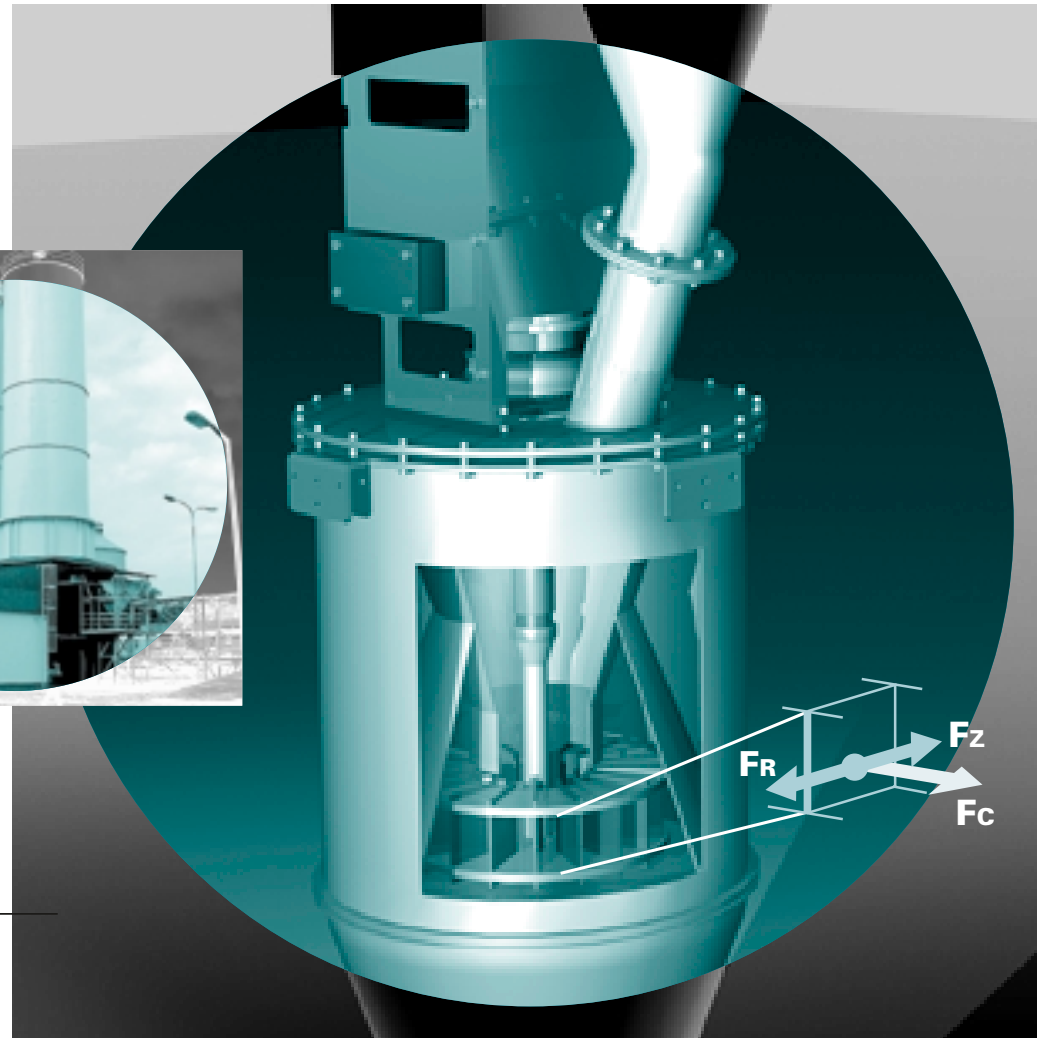


Feeding of Powdered Materials and Meal

Optimal feeding – extremely precise and trouble-free for cement production process steps 3 and 4



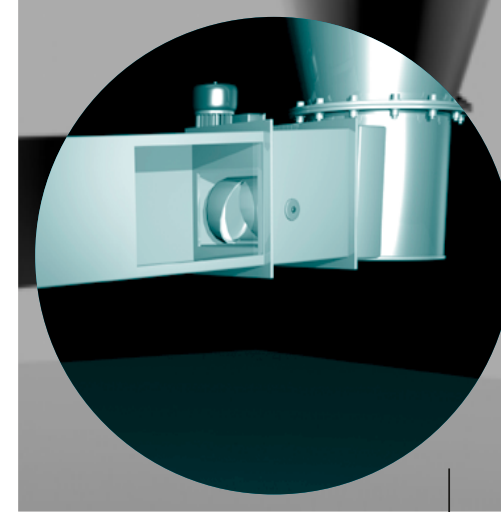
Module 3: Silo

Module 1: Mass flow measurement with MULTICOR®-S

Feeding systems employing the principle of harmonized task sharing, guarantee trouble-free operation and highly accurate results. In principle, sustainable solutions are comprised of three modules: the mass flow silo (module 3), various optimized feeding hoppers for the controlled extraction of material from the silo (module 2), and the MULTICOR®-S or MULTISTREAM® G for measuring the material flow (module 1). For module 3, Schenck also provides silo-engineering services to ensure that the extraction technology works properly.

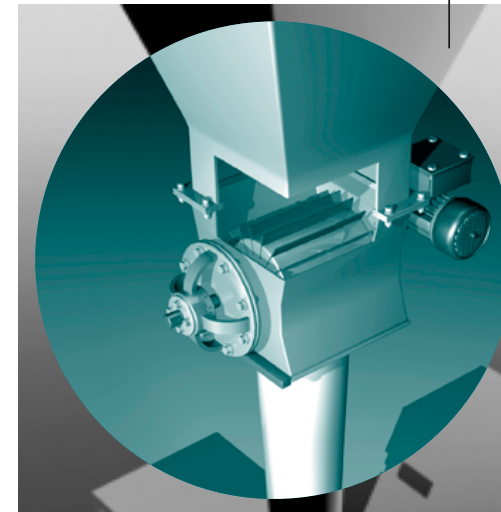
More about MULTISTREAM® G on pages 78–79

More about MULTICOR®-S on pages 76–77

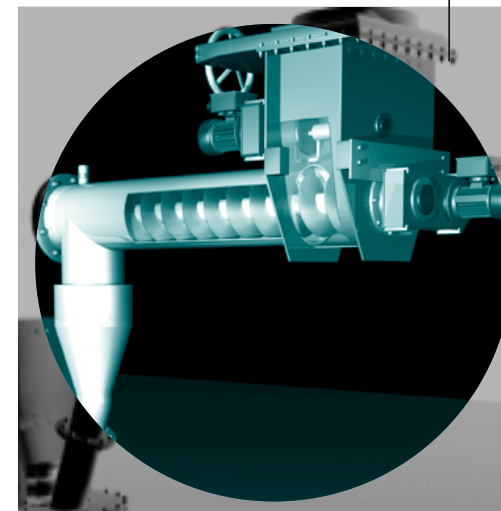


Module 2: Position-controlled flowgate as prefeeder

Module 2: Speed-controlled star feeder as prefeeder



Module 2: Speed-controlled screw with integrated agitator as feeder



Prefeeder, depending on the bulk material properties (module 2)

- ☒ Flow gate (position-controlled) for materials with free flowing properties; for applications up to approx. 800 m³/h
- ☒ Star feeders (speed-controlled) for materials with free flowing properties; for applications up to approx. 120 m³/h
- ☒ Feeding screws (speed-controlled) with integrated agitator for materials with free to moderate flowing properties for applications up to approximately 120 m³/h

Applications for complete solutions

Powder

dust: main portion < 0.1 mm, max. grain size 1 mm (some individual particles may be larger)

Meal: main portion 0.1 mm–0.5 mm

- ☒ Raw meal feeding
- ☒ Fly ash feeding in the calcinator (substitute for clay component in raw meal) and in cement mills (as additive)
- ☒ Filter dust feeding (in cement mills as additive)
- ☒ Bypass cement feeding
- ☒ Powdered materials feeding in blending plants
- ☒ Pulverized coal feeding
- ☒ Powdered lime feeding in lime plants
- ☒ Finished cement feeding in the loading area

Also for use in other processes, such as:

- ☒ Additive feeding in steel mills
- ☒ Flue gas desulfurization in power plants

Advantages

- ☒ Modular feeding system design = flexible application options
- ☒ Highest accuracy because the concept is customized for the material being conveyed
- ☒ Cutting-edge process-adaptive measuring and control technology
- ☒ Systems solutions mean you get planning, delivery, installation, and service from a single source