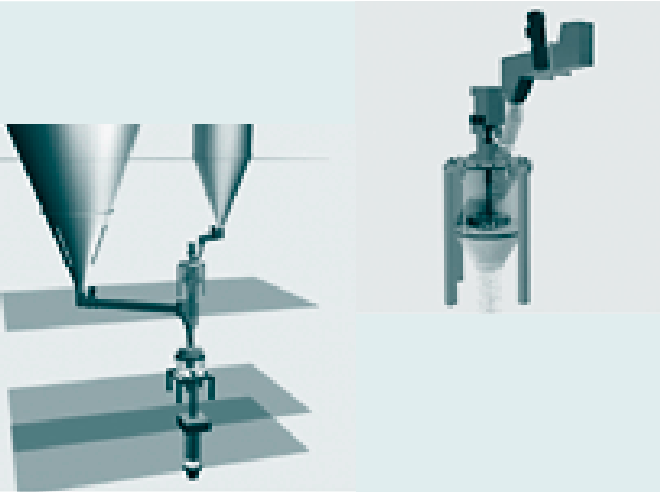


"Two in One" – Mix and Feed Simultaneously Using the Coriolis Principle



For the production of special cement types before loading and shipping, a homogenous mixture of the component materials is needed. Until now, you had to go through several separate, costly process steps using mixers.

The MULTICOR® S feeding system greatly simplifies and reduces the expenditure in required equipment. Used as master, the MULTICOR® S feeds the main component. In addition, appropriate feeding systems are used (as slave) to feed the additives.

A rotating measuring wheel mixes the main component and the additives directly in the master MULTICOR® according to the Coriolis principle. No separate mixer is required, and you can realize almost any mixture. This just-in-time method also saves you the expense of intermediate transport technology and, in some cases, additional silos. In this concept, less is definitely more.

System Set-up:

MULTICOR® S feeds the exact proportion of the primary component needed as part of the total flow rate for all materials comprising the mixture.

As a prefeeder, we recommend a speed-controlled screw, a star feeder, or a position-controlled flow gate, depending on the material, desired feed rate, and flow properties.

The additives are fed directly from the slave feeding system to the MULTICOR® measuring wheel. Depending on the desired feed rate and the material flow properties, either the MechaTron® Loss-in-Weight Feeder or the MULTICOR® feeding system is used.

Sample Applications

Bagging Plant

This setup: total feed rate for all components approx. 40 t/h [metric]

- ☒ MULTICOR® S for feeding the main cement component and for the mixture
- ☒ MechaTron® for the additional feeding of the kiln dust

Cement Loading

This setup: total feed rate for all components approx. 150 t/h [metric]

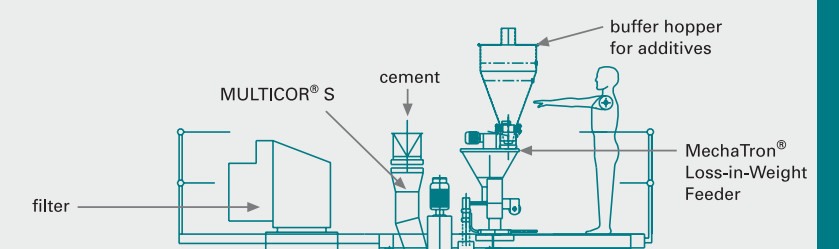
- ☒ MULTICOR® S for feeding the main cement component and for the mixture
- ☒ MULTICOR® S for the additional feeding of additives

This setup: total feed rate for all components up to 300 t/h [metric]

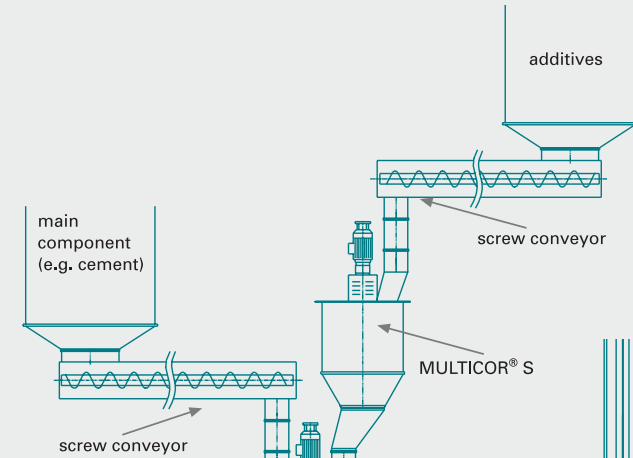
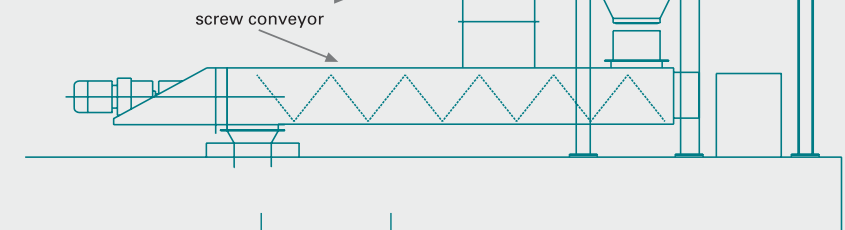
- ☒ MULTICOR® S for feeding the main cement component and for the mixture
- ☒ MULTICOR® S for the additional feeding of additives

More about MULTICOR® S on pages 76–77

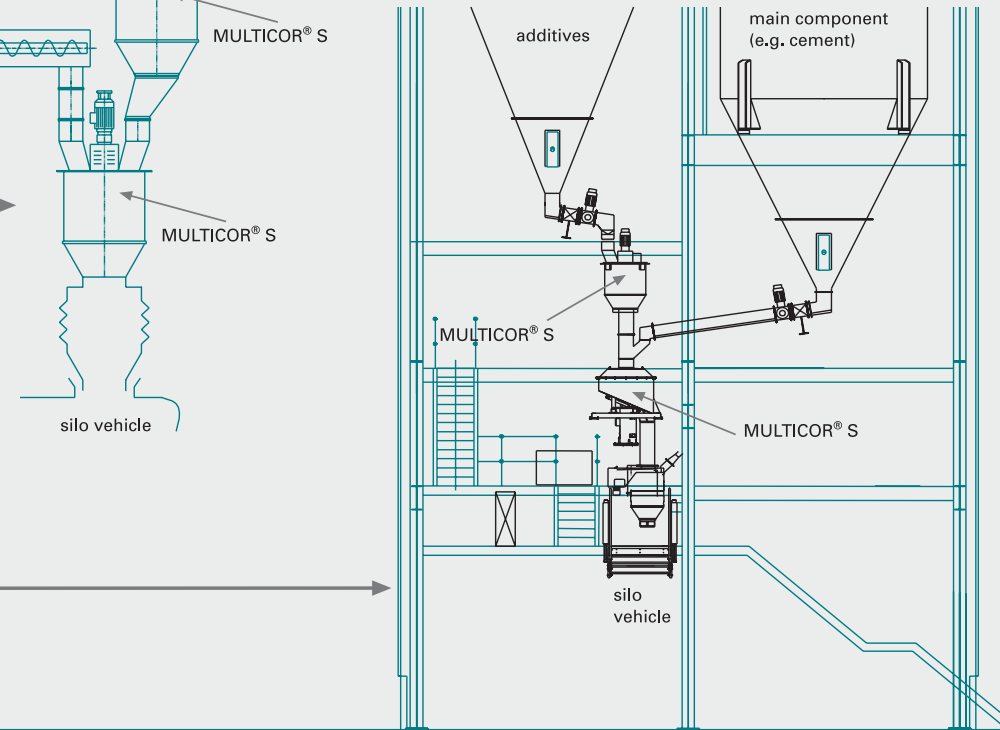
More about MechaTron® on pages 20–29



Example 1



Example 2



Example 3

Advantages

- ☒ Homogenous material mixing
- ☒ Significantly reduced investment because separate mixer is no longer needed
- ☒ "Just-in-time" mix production eliminates the need for storage silos
- ☒ Almost any ratio of components can be mixed
- ☒ Trouble-free extraction of material with the selection of the optimal feeder
- ☒ Highest accuracy and feeding constancy ensured by MULTICOR® S
- ☒ Cutting-edge process-adaptive measuring and control technology