

Cement Production

Perfectly mixed, fed accurately and without pulsation, precisely weighed "Quality meets Quality"



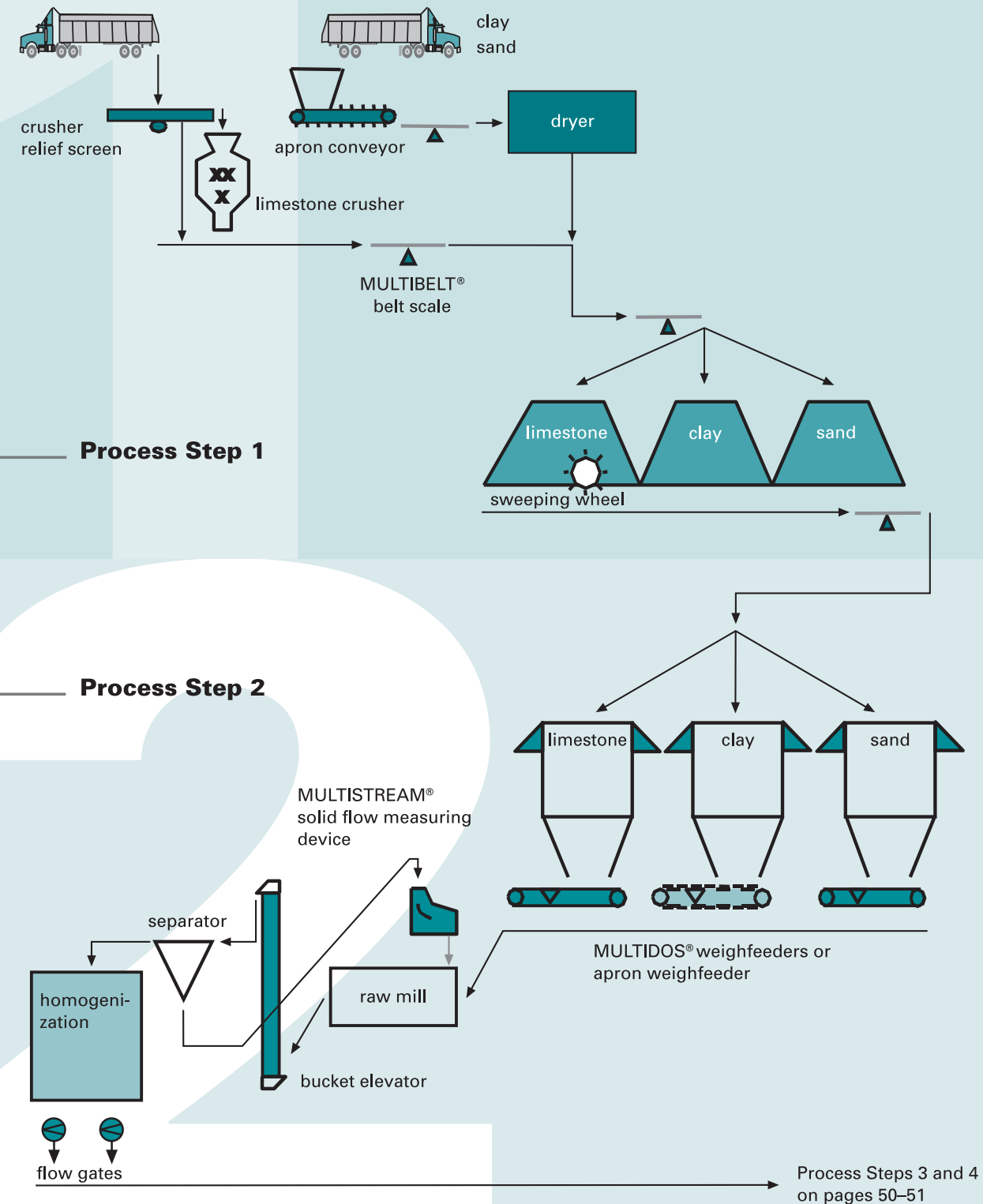
Perfect cement is the result of four overlapping processes where Schenck Process measuring and feeding devices with optimally integrated weighing technology play a major role.

Process Step 1:

Limestone is mined at a quarry, crushed into small pieces, and stored in blending beds. Schenck Process MULTIBELT® belt scales record material quantities accurately and reliably under harsh conditions.

Process Step 2:

The crushed limestone is ground into raw meal. Additives, such as clay, sand, or iron ore, result in the desired chemical composition. The Schenck Process MULTIDOS® weighfeeder will feed the various materials to the raw mill accurately and reliably. For poorly flowing materials, the MULTIDOS® VDP apron feeders can also be used. After the material is ground, it is homogenized in blending silos.



More about MULTIBELT® on pages 108-109

More about MULTIDOS® and the MULTIDOS® VDP apron weighfeeder on pages 68-73

More about dust and meal feeding on pages 56-57

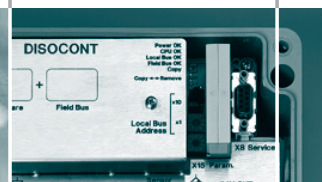
More about secondary fuel feeding on pages 54-55

More about pulverized coal feeding on pages 52-53

More about mixing and feeding using the Coriolis force on pages 58-59

More about the LAS Loading Automation System on pages 92-99

More about electronics on pages 124-135



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Process Step 3:

The raw mix is placed in rotary kilns and burnt at over 1,000 °C (1,832 °F) to produce clinker.

Different types of pulverized coal or secondary fuels are used to heat the kiln. Schenck Process MULTICOR® mass flow feeding systems can meter pulverized coal efficiently and without pulsation directly into the pneumatic lines that lead to the main burner (at the discharge end of the kiln) and the calcinator (at the feed end of the kiln). Schenck Process's semi-mobile compact system can meter secondary fuels such as shredded plastic, sawdust, and carpet scraps.

Also, the highly precise feeding of the raw meal into the heat exchanger is done by the Schenck Process MULTICOR® S mass flow feeding system or the MULTISTREAM® solid feeding system.

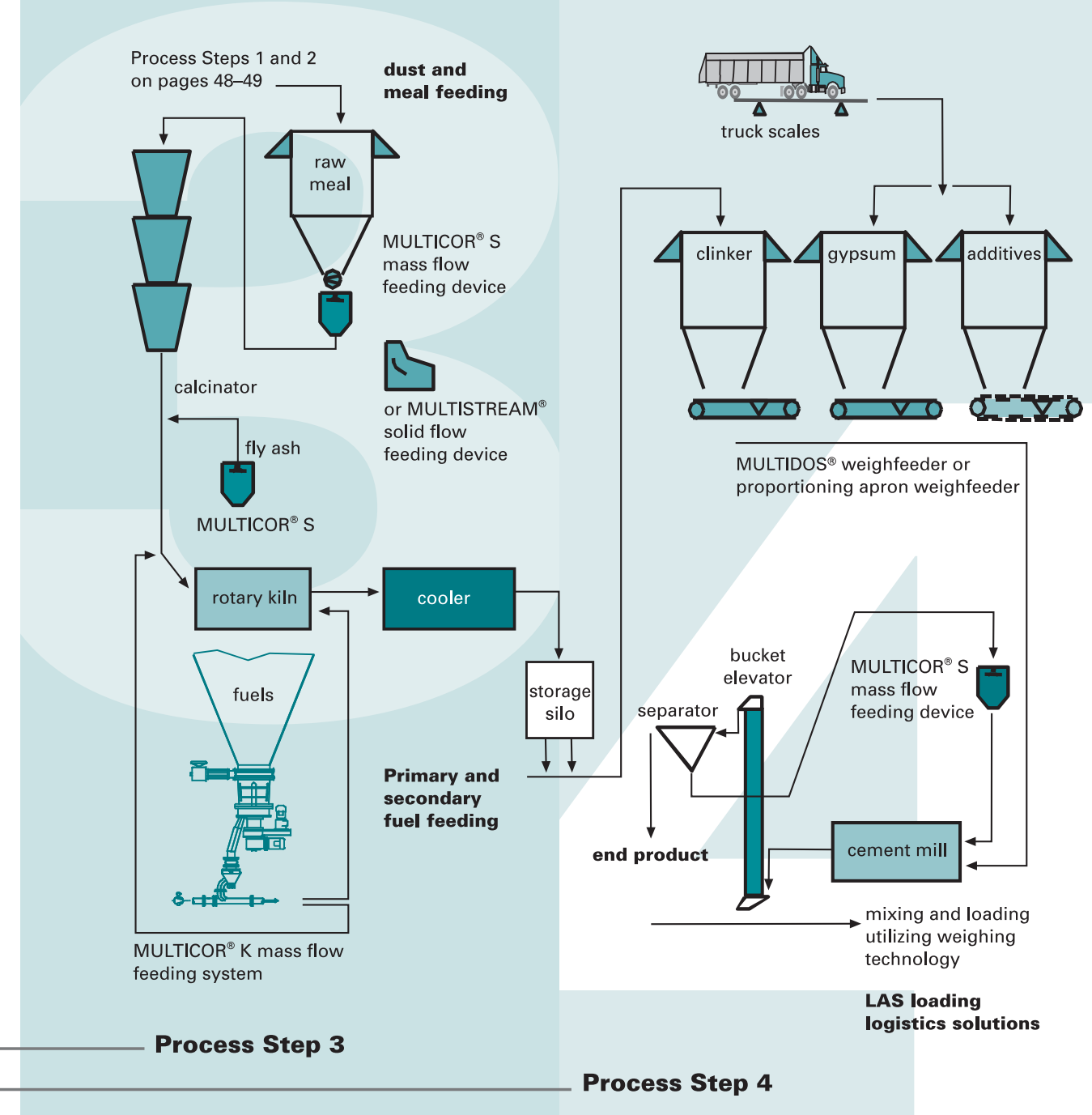
Process Step 4:

The clinker is ground into various types of cement. Apart from clinker and gypsum, various additives are also ground into the material (e.g. slag sand, trass, fly ash).

The MULTIDOS® weighfeeder feeds material into the mill similar to the earlier feeding of material into the raw mill. For dusty bulk materials, also the MULTICOR® mass flow feeding system can be used. (Mixing and loading plants also utilize MULTICOR® system technology and the LAS loading logistics solution.)

Our Solutions Package

- ☒ MULTIDOS® weighfeeders with a broad range of extraction and feeding devices for all types of bulk solids
- ☒ MULTIDOS® VDP apron feeders can also be used with difficult-to-discharge bulk solids
- ☒ MULTICOR® K and MULTICOR® S mass flow feeding systems for pulverized coal, raw meal, and fly ash
- ☒ MULTIDOS® feeding system in combination with star feeders for the pneumatic transport of secondary fuels
- ☒ MULTIBELT® belt scales, different models for the level of precision you need
- ☒ Silo weight recording using load cells or weighbeams
- ☒ LAS loading logistics solutions



Advantages

- ☒ Process-specific application expertise for efficient weighing and feeding systems for all materials used in the production process
- ☒ Also able to be used with pneumatic transfer technology
- ☒ Highest system availability despite harsh conditions
- ☒ Process-appropriate, stable measuring and feeding accuracies
- ☒ Your competent service team is available worldwide