

Pulverized Coal Feeding

Guaranteed feeding constancy – for high product quality, efficient kiln operation and optimal emission values



Primary materials – perfectly fed and flexibly composed

Pulverized coal types, such as lignite, anthracite, charcoal, bituminous coal, oil coke, or mixtures of these fuels are used, as are oil shale, coke, and pulverized anodes, further broadening the spectrum of materials.

Applications:

- ☑ Rotary kiln charging in cement plants (main burner and calcinator)
- ☑ Rotary kiln charging in lime plants (main burner)
- ☑ Shaft kiln charging in cement or lime plants
- ☑ Feeding of pre-heaters or reactors

Truly efficient use of the many varieties of pulverized coal requires a feeding technology whose reliability is equaled only by its accuracy. Stable temperatures, minimal excess air, and low oxygen content at the feed end of the kiln are all required to achieve consistently high product quality. The MULTICOR® Coriolis pulverized coal feeding system easily handles these requirements when paired with the pneumatic transfer system. It has a guaranteed feeding accuracy of $\pm 0.5\%$ and short-term feeding constancy of $\pm 1\%$, while still complying with limit values for SO_2 , NO_x and CO in the kiln and its emissions.

More about MULTICOR® K on pages 74–75

More about MULTICOR® S on pages 32–33

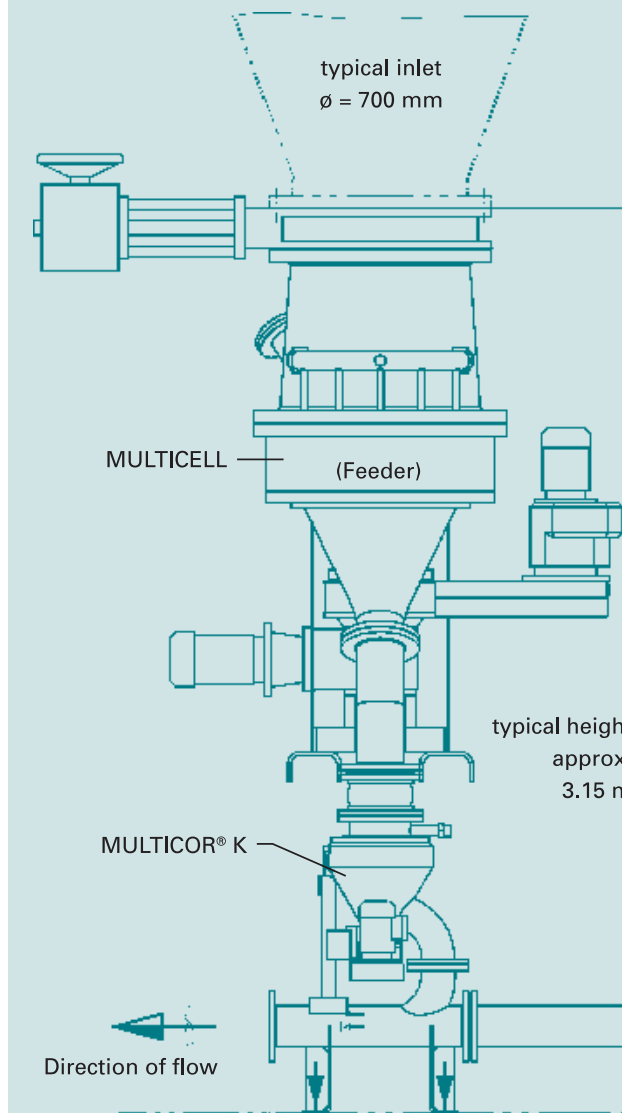
More about DISOCONT® on pages 126–127



Two Basic Feeding Concepts

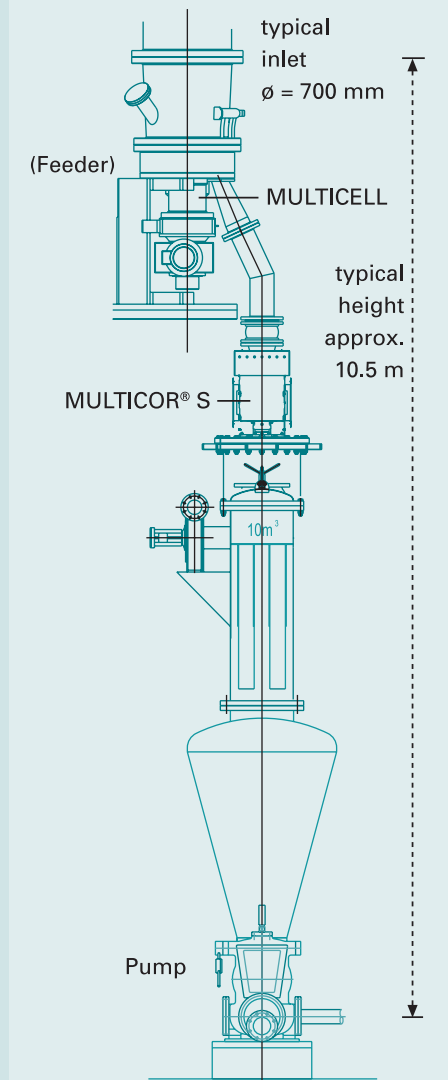
Feeding the burner at medium pneumatic transfer pressures

1. Direct feeding into the pneumatic conveyor line using MULTICOR® K and MULTICELL.



Feeding the burner at very high transfer pressures

2. Indirect feeding via a pump or star feeder into the pneumatic conveyor line using MULTICOR® S and MULTICELL.



Advantages

- ☑ High feeding constancy for economical kiln operation
- ☑ Pulsation-free feeding
- ☑ Engineering and a complete system from a single source
- ☑ Schenck Process silo design and pneumatic engineering
- ☑ High-quality materials for MULTICOR®/MULTICELL provide excellent wear resistance
- ☑ Cutting-edge DISOCONT® process-adaptive electronic measuring and control system