

### ***Air-supported conveyor feeds clinker to railcar loadout station***

Martin Engineering, Neponset, IL, has installed one of its air-supported conveyors at the Newberry, FL, cement plant of Vulcan Materials, the largest US producer of construction aggregates. This type of conveyor can operate at steeper inclines than traditional belt conveyors, allowing it to be positioned in a confined space alongside existing silos and other conveyors. With no moving parts that require maintenance on the load-carrying side, the system could be installed in the hallway beneath a clinker silo. This 610mm wide conveyor negotiates a vertical curve to elevate the load 7.6m over a distance of 88m from the bottom of the clinker silo to the top of the loadout structure. Capacity is around 360t/h at a belt speed of just over 100m/min. The troughed conveyor is moved by an 18.6kW drive motor and the air support system uses an 11.2kW blower to maintain the belt in suspension. With this type of conveyor, air-supported and conventional roller sections can be mixed in order to accommodate loading zones, tracking idlers, belt scales and other requirements. Martin Engineering's European head office is in Walluf, Germany. [www.martin-eng.com](http://www.martin-eng.com)



***The Martin Engineering air-supported conveyor at Vulcan Materials and (right) the plenum is pressurised by means of a centrifugal fan***