

Project-Report

From Clay to Pellet: VHV Conveyor Technology as the Lifeline of the New Compactonit® Production Line

* Our Job

The Stephan Schmidt Group, one of Europe's leading clay specialists, has expanded its clay processing operations with a completely new production line for clay pellets.

As an experienced partner for belt conveyor technology in the ceramic industry, VHV Anlagenbau was responsible for planning, manufacturing, delivery, on-site installation and commissioning of the customized conveying solution. Based on

the customer's project specifications, VHV created detailed 3D designs for all conveyor routes, precisely incorporating every interface with the process machinery, transfer points and maintenance access.

Key Responsibilities:

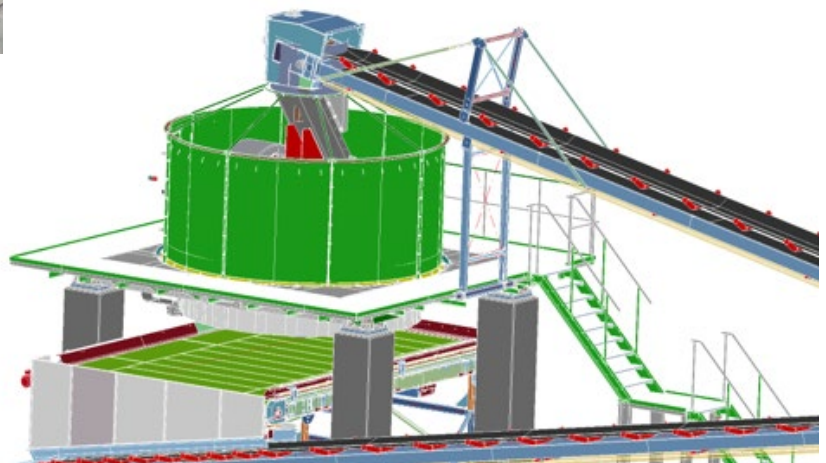
- CAD design of the conveyor routes
- Coordination of transfer points and interfaces with the process machinery
- Manufacturing of the equipment
- Delivery and on-site installation
- Commissioning of the conveyor system

* Our Solution



Technische Highlights:

- 10 belt conveyors, including maintenance platforms
- Total belt conveyors length: 130m
- Belt widths from 500mm to 4,000mm
- Collecting Conveyor: 6,54 Meter long – belt width 4,000mm
- Corrugate sidewall belt conveyor for vertical conveying: 9,2m long
- Annual output of clay pellets: 22,500t/ year

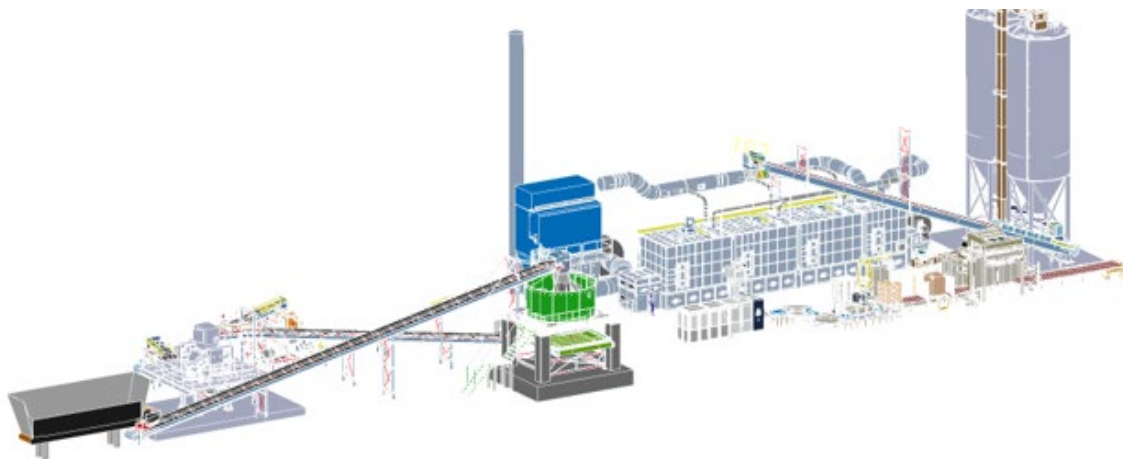


Collecting conveyor below the pan mill

VHV installed a total of ten belt conveyors to transport the raw material through to the finished clay pellet, reliably linking every process stage of the new production line. Key features include the 6.5-metre-long collecting conveyor with a belt width of 4,000 mm beneath the pan mill, as well as a sidewall belt conveyor for the gentle inclined conveying of the dried clay pellets.



The conveyor routes were designed in 3D CAD and integrated precisely into the new building and plant layout. This enabled maintenance access and interfaces with the process machinery to be coordinated at an early stage.



CAD view of the project

Customer:

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