

Keeping Vietnam on the move

Entering full operation in 2019, Tan Thang cement plant in Vietnam includes a state-of-the-art raw material handling system, from crushers to reclaimers. The entire system was supplied by bulk handling specialist Bedeschi.

■ by **Bedeschi SpA, Italy**

Located in Nghe An province, Vietnam, the 10,000tpd Tan Thang cement plant awarded the contract for the complete supply of all raw material crushing units, conveying equipment and storage facilities to Italy-based Bedeschi SpA. The bulk handling company not only delivered the complete handling system but also designed the overall lay-out of the plant's raw material and coal storage. The contract included:

- one 850tph limestone crusher
- one circular limestone storage with a stacking and reclaiming capacity of 850tph and 350tph, respectively
- one 300tph clay crushing system with an apron feeder and a double roller crusher, to crush sticky and moist material
- one longitudinal storage with a stacking and reclaiming system able to handle difficult types of material, including raw material additives such as clay, iron ore and silica. The system



Bedeschi SpA designed the bucket reclaimer for a clay pit for one of its Vietnamese cement customers

includes a 300tph luffing stacker and a 200tph bucket reclaimer.

- one 100tph side reclaimer
- 13 dedusting filters
- ~2.5km belt conveyors to connect the

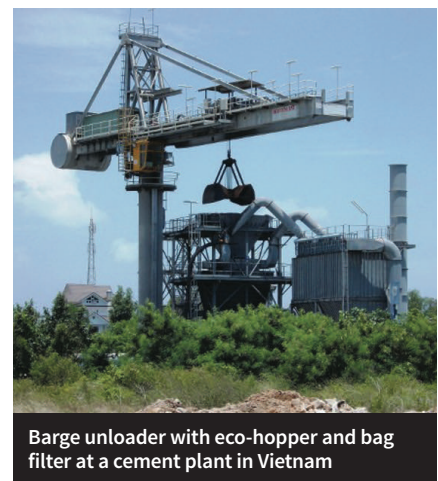
quarry to the plant, supplied by ONT SpA, part of the Bedeschi Group.

Bedeschi's scope of supply also included civil works and the full engineering of the handling system. Manufacturing and some construction activity was carried out by local companies, utilising Bedeschi's long-established relationships with the local supply chain. Bedeschi managers and site engineers supervised and carried out quality control for this part of the project.

Bedeschi in Vietnam

Present in Vietnam since 1969, Bedeschi has supplied its bulk handling solutions to several cement manufacturers, or directly or through leading engineering companies:

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| • Bim Son JSC | • Christian Pfeiffer Maschinenfabrik GmbH |
| • But Son Cement | • FLSmidth AS |
| • Cam Pha Cement plant | • Fives FCB |
| • Chinfon Cement Corp | • IHI Europe Ltd |
| • Ha Long Cement JSC | • Kawasaki Heavy Industries Ltd |
| • Ha-Tien 1 and 2 Cement JSC | • Kobe Steel Ltd |
| • Ha-Tien 1 Bin Phuoc | • Loesche GmbH |
| • Nghi Son Cement Corp | • Mitsubishi Heavy Industries Ltd |
| • Tam Diep Cement Co | • Polysius SA |
| • Tan Thang Cement JSC | • Taiwan Cement Engineering Corp |
| • The Thai Nguyen Cement plant | • Technip France |
| • Vietnam National Cement Trading Corp | • Ube Industries |
| | • Vietnam Industrial Construction Corp |



Barge unloader with eco-hopper and bag filter at a cement plant in Vietnam



Bedeschi SpA designed the overall lay-out of Tan Thang cement plant's raw material and coal storage facilities

Supplying the Vietnamese cement sector

The contract awarded for the Tan Thang cement plant is underpinned by Bedeschi's presence in the Vietnamese market since 1969, developing more than 90 installations with capacities ranging between 20-1500tph. Its reference list is extensive (see box story) and equipment supplied includes:

- CNA apron feeders (length: 3.5-12m, width: 1000-2500mm)
- RI and RL double-roller crushers (ϕ :450-1000m, length: 1200-2500mm)
- reclaimers: BEL C blending front bucket reclaimers for sticky materials,



Equipment supplied by Bedeschi is able to handle a range of materials, including sticky materials as pictured

BEL F and BEL S side bucket and PAL F and PAL S side scraper reclaimers for dry materials

- STK RC and PAL C circular storage stackers and reclaimers
- STK travelling luffing stacker
- bridge travelling stacker with reversible shuttle
- tripper car
- SHU ship unloaders.

Equipment supplied by Bedeschi handles a variety of materials, including additives, clay, clinker, coal, gypsum, iron ore, laterite, limestone, pozzolana, quartzite, sand, shale and silica. It is able to handle both dry and sticky materials with a moisture content of up to 25 per cent.

As the Vietnamese cement sector is expected to increase productivity going forward, Bedeschi hopes to maintain its status as a trusted industry partner. ■