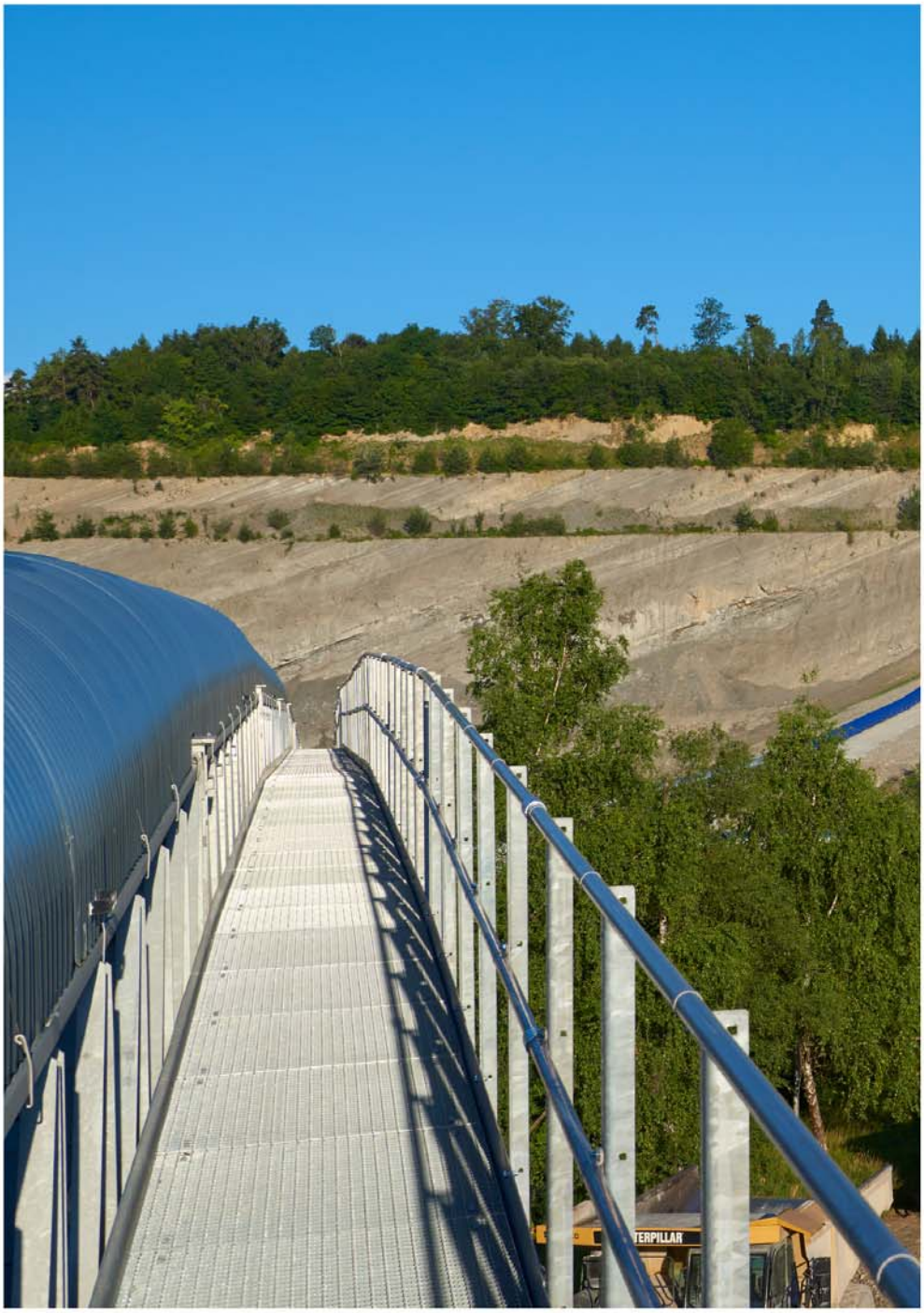
Conveyor belt system for Jura Cement Fabriken AG, Wildegg, Switzerland

Conveyor belt system with railroad connection delivers 600 tons per hour

Jura Cement Fabriken AG (JCF) ordered a complete, permanent transshipment and conveyor system from Marti Technik AG as an infrastructure extension at the cement plant in Wildegg. Since May 2017, it has transported non-reusable material from various locations for final deposit in the disused Oberegg quarry. The installation can also divert material suitable for cement production directly to the production process or take it to temporary storage.



The excavated and breakout material is delivered to Wildegg by rail whenever possible. Consequently, the transshipment and conveyor system primarily consists of an unloading trough with a discharge conveyor for loose material where the tipper rail cars can unload the material into a 40 m3 feeding hopper. The tipper rail car can be driven directly into a steel hall that completely encloses the unloading trough. Their location was selected so an entire train of 18 rail cars can be unloaded without blocking access to the site.

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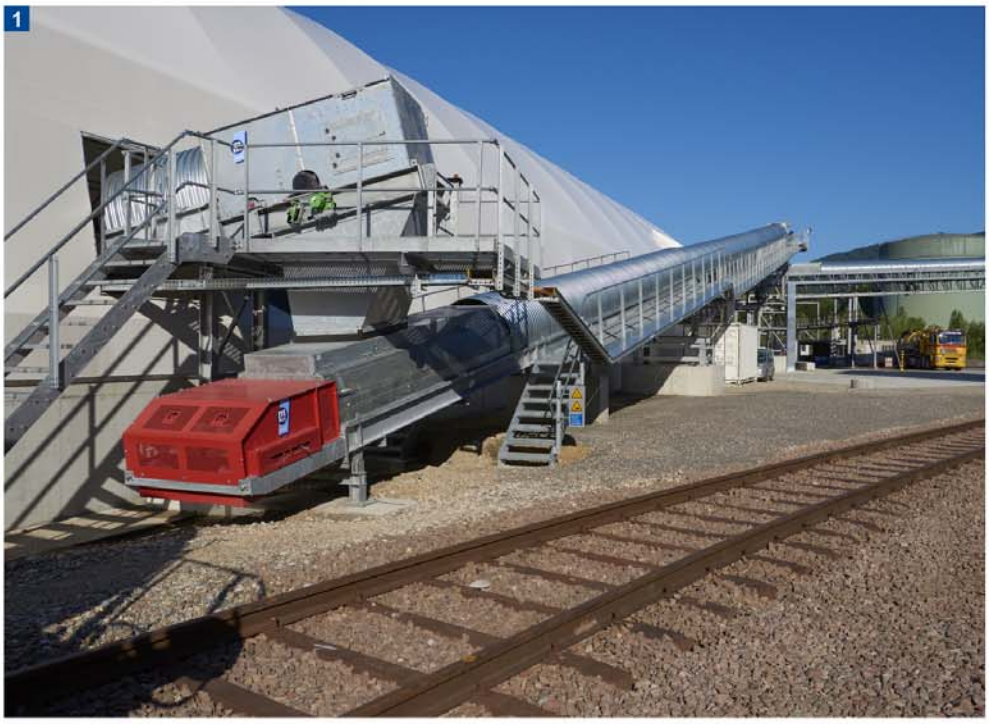
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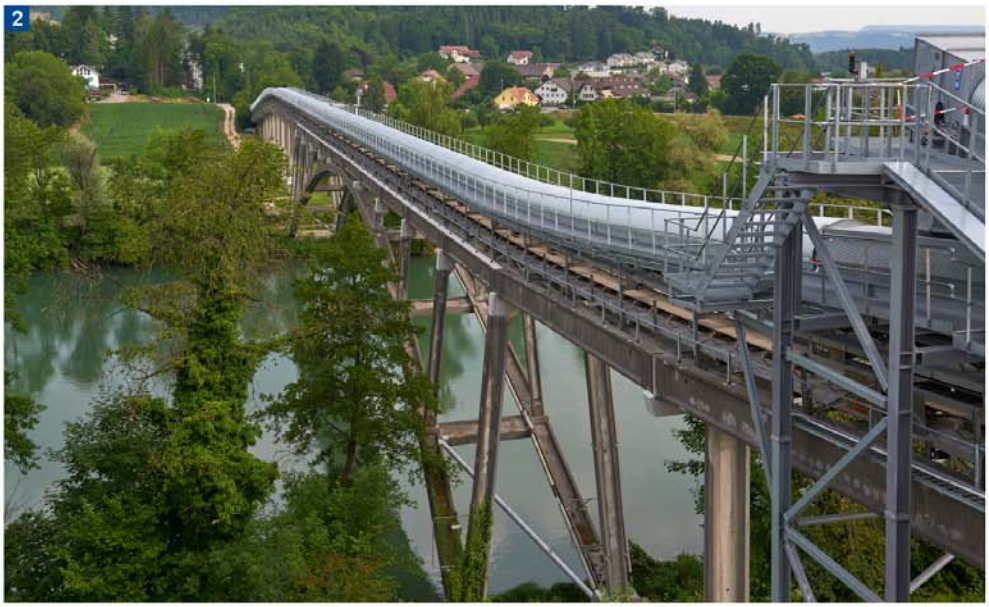
Client
Jura Cement Fabriken AG

Created
2016 - 2017

System details
- 17 individual conveyor belts
- 3 feeding bunkers
- 600 t/h conveying capacity
- 1 bidirectional conveyor
- 1 slewing belt conveyor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If delivery by rail is impossible, trucks can feed the unloading trough at the long side opposite the track via a rolling door that opens for the tipping procedure. The rail cars or trucks take cohesive excavation and breakout material with a high proportion of fines to a separate arched hall. There the material is treated with dry material using wheel loaders until it can be transported on the conveyor belts. There is also an option of storing the material in the intermediate depot and feeding it to the conveyor belt system later.

1. Beginning of the conveyor belt system
2. Over the Aare bridge
3. Arched hall for cohesive material

Marti Technik AG
Lochackerweg 2 | CH-3302 Moosseedorf | Fon +41 31 858 33 88 | Fax +41 31 858 33 89
info@martitechnik.com | www.martitechnik.com

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