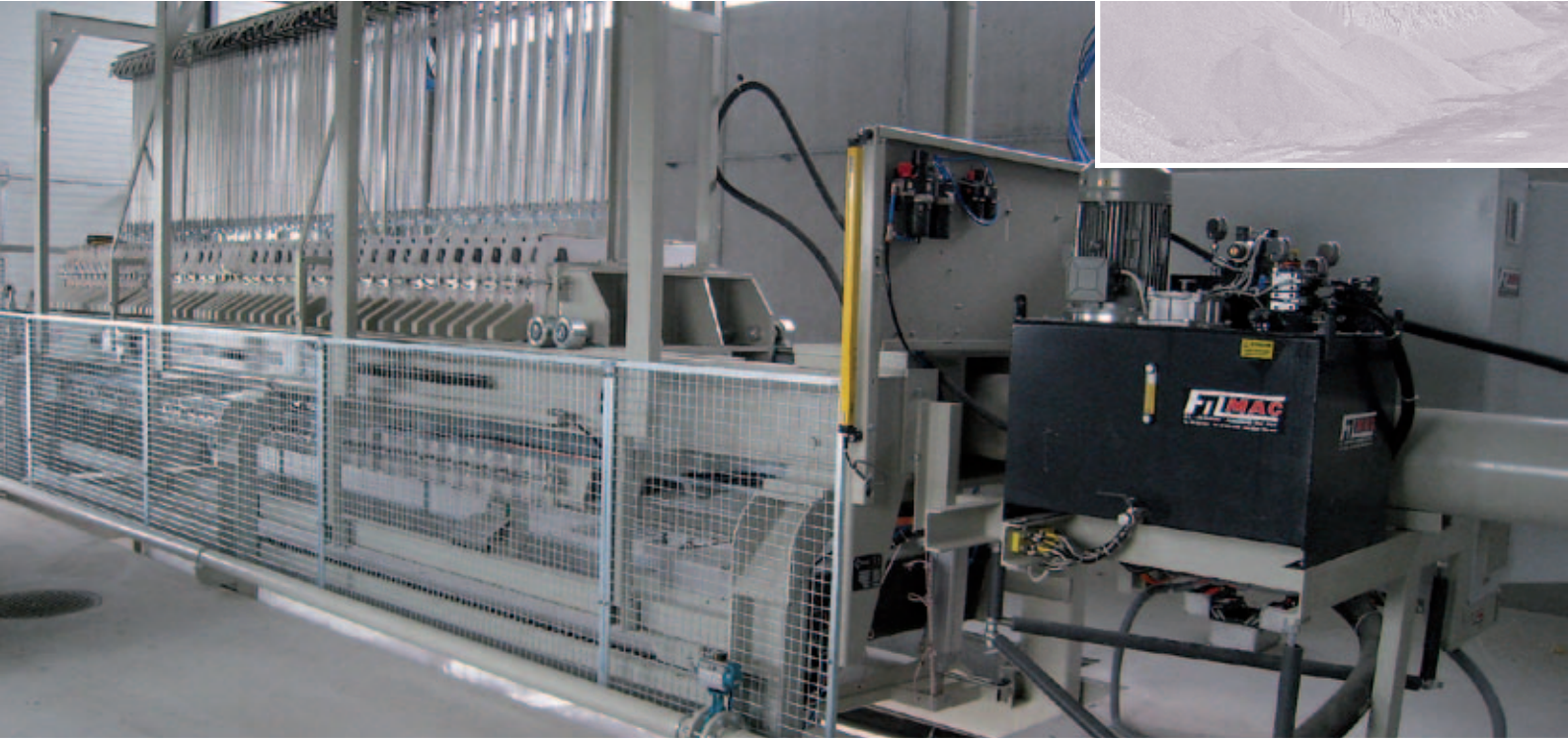
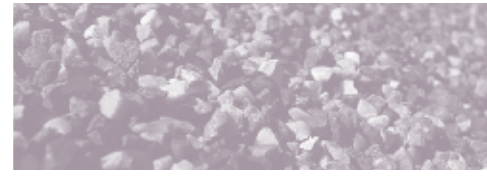


Marti Technics Ltd.

Plant Engineering Stone & Earthworks
Gravel processing plant at Ballwil – new construction of sludge dewatering plant



Gravel processing plant at Ballwil

New construction of sludge dewatering plant

Client	Lötscher Kies & Beton AG, CH-6275 Ballwil
Contractor	Marti Technics Ltd. Plant Engineering Stone & Earthworks
Value of order	CHF 0.7 mn
Drawn up	2008 / 2009

Services provided by Marti Technics Ltd. Plant Engineering Stone & Earthworks

Design, planning and partial delivery of the plant for sludge dewatering.

The plant consists of the following main components

- Gravel sludge-buffer silo with delivery to agricultural vehicles
- Chamber filter press with automatic washing robot

Technical Data

Sludge dewatering plant

- Gravel sludge-buffer silo 85 m³
- Chamber filter press plate size 1000 x 1000 mm
- Chamber filter press cake thickness 25 mm

Plant description

Gravel sludge buffer silo with delivery to agricultural vehicles

The gravel sludge accumulating in the water treatment plant of the gravel processing plant is conveyed by means of a spiral pump into the gravel sludge buffer silo. This is located in a separate building, which besides a plant for sludge dewatering also has a workshop and room for the canton Department of Archaeology.

To prevent the sludge from settling in the buffer silo it is regularly re-circulated by pump. The buffer silo has a further discharge with a sludge pump and a loading station for the delivery of gravel sludge to agricultural vehicles.



Chamber filter press with automatic washing robot

The chamber filter press is fed from the gravel sludge buffer silo via a double-case centrifugal pump. The feed pump is two-stage: the first stage is for actual filling of the press, the second stage for pressing and sludge dewatering. The plant has a further pressure stage – even better dewatering is achieved via a high pressure pumping unit with the aid of water pressure. In order to maintain the performance of the sludge dewatering over an extended period, the filter cloths must be cleaned regularly. This takes place by means of an automatic washing robot which cleans the individual cake cavities of the chamber filter press with water under high pressure.



Marti Technics Ltd.
Plant Engineering Stone & Earthworks

Technikumstrasse 1
CH-6048 Horw

Fon +41 41 349 40 20
Fax +41 41 349 40 21

info@martitechnik.ch
www.martitechnik.ch