

## CUSTOMISED SOLUTIONS: REAL-TIME CORRECTIONS FOR TAMPING MACHINES



### Scheuchzer SA, Switzerland

In cooperation with Scheuchzer SA a positioning system for tamping machines, based on the Amberg VMS 1000 twin-trolley system, has been developed.

The new system called SAMS I (Scheuchzer Amberg Measurement System) measures and transmits track correction data in real-time to the tamping machine.

The conventional chord measurement has been integrated in the tamping run process. As a result of this time and personal can be saved.

## Correction data acquisition made easy

### Location

Switzerland

### General Information

- SAMS I is based on the successful Amberg Technologies VMS 1000 system
- Mast points at start of chord and end of chord are measured with a total station
- A prism, mounted on the tamping machine, is tracked permanently. The measurements are used to calculate the correction data for the tamping machine.
- Optimised workflow for project creation, measurement preparation and measurement has been introduced

### Project Stages

Development project kick-off	11.2013
First measurement	04.2014
First construction site	08.2014
2 <sup>nd</sup> Tamping machine put in service with SAMS I	12.2014
Additional five tamping machines put in service with SAMS I	2016

### Customer

Scheuchzer SA, Bussigny-près-Lausanne



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Left side ↑ 40.3 mm	Axis vertical ↑ 42.3 mm Auto corr. = -6.6 mm	Right side ↑ 44.2 mm
Stationing N/A Cumul.: 20.0000 m	Axis horizontal ← -39.0 mm	SE -63.8 mm Δ 3.9 mm (-60.0 mm) ↑
Alignment Info		Distance to CP's
Vertical rounding	Vertical rounding	0.000 m
Vertex (round)	Vertex (round)	20a 0.000 m
Vertical rounding	Vertical rounding	50a 30.000 m
		LR →
Abort	TPS Power	SDC state OK
	Lock	Finish

### Object

1st tamping machine equipped with SAMS I:  
Matisa BNA 341, Universal tamping machine

### Our service

- Customised solution for
- Project creation
  - Measurement screen
  - Correction data transfer

