We present on the booth of our partner Obermann at the

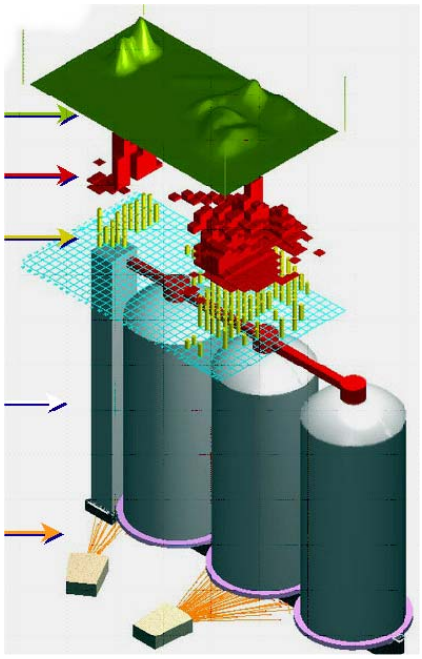
bauma 2007

open-air ground F13, booth 1308/1

info

GroutControl®

Control and Management of Complex Grouting Works



Combined view of different data

OBERMANN SYSTEMS

Development Partner

REFLEX™

Authorized Distributor

The qualified and safe execution of complex grouting works e.g. as a safeguard for buildings in the influence of tunnelling projects, is only possible under the following premises::

1. Application of a measurement system capable of displaying the deformations on the surface at real time.
2. Survey of all grouting data (borehole position, grouting step, initial grout pressure, final grout pressure, grout volume per step and cumulated, etc.) at real time.
3. A connection of deformation data and grouting data at real time.

For this purpose GeTec Ingenieurgesellschaft mbH has developed the database application GroutControl® together with its client Keller Grundbau, the reference market leader for compensation grouting (SOILFRAC®). Since 1989 this software has been used on site permanently implementing constant improvement according to the needs of the clients. The actual release offers the following features:

Control and Visualisation of the relevant data:

- Grouting can be controlled according to grouting proposals created with software aid.
- Grouting data (exact borehole and valve position, grouting step, initial grout pressure, final grout pressure, grout volume per step and cumulated for each valve)
- (Differential)Displacements at the surface or inside a building (hydrostatic levelling system of geodetic measurements)
- As-built borehole gradient and valve position (an interface for the REFLEX MAXIBOR® II has been implemented).
- Visualisation of the 3D-position of the TBM
- 2D and 3D display of site geometry (footings, shafts, pipelines, tunnels etc.) as background for better orientation

Data management:

- Creation of client-specific reports (site report) as Excel-, XML-, PDF- as HTML-files.

GeTec

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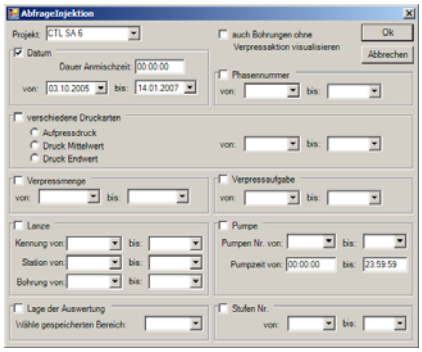
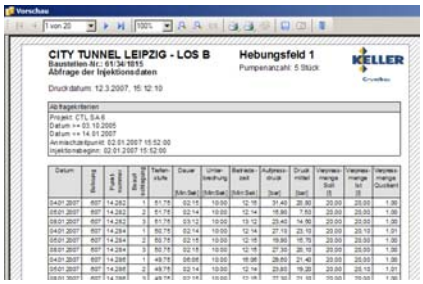
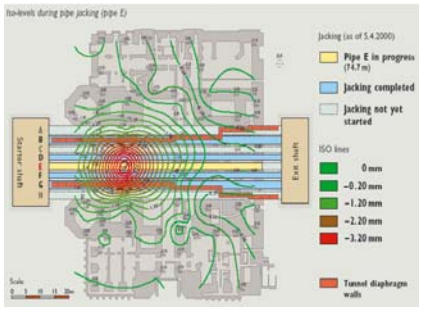
GroutControl®



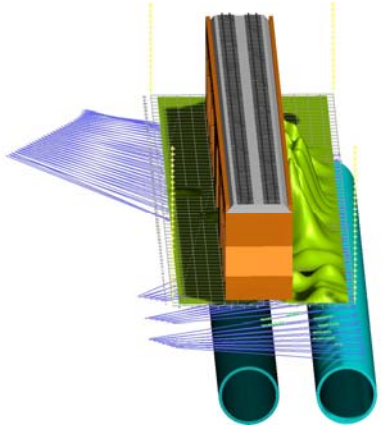
Query mask for data selection



Formatted report

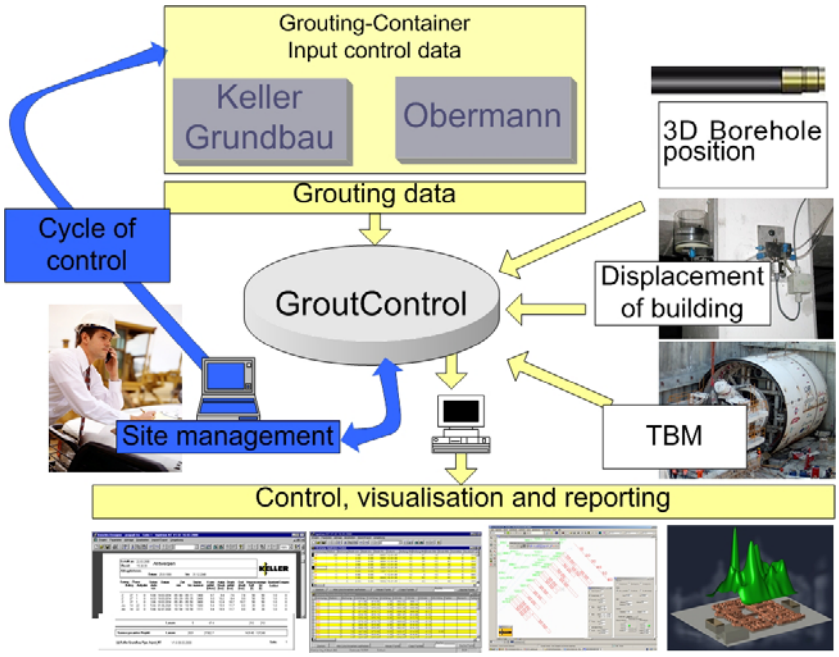


Isoline plot of vertical displacements



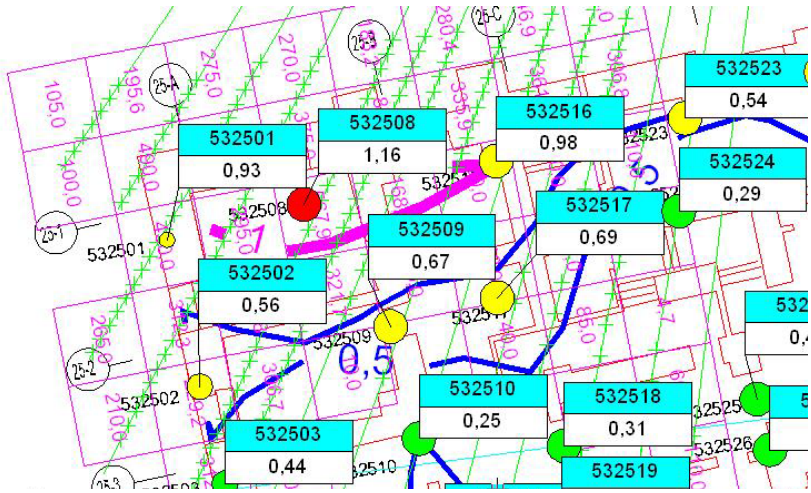
3D-display of the site geometry

- Software-aided creation of work instructions (hardcopy or direct control of pumps via network, WLAN or data-file.
- Storage of all data as a preservation of evidence



Data flow scheme

Its features and its modern and easy-to-use GUI make GroutControl® the essential tool for control and data-management of the responsible site manager.



Modern and easy-to-use GUI

For small projects GroutControl® can be used as a standalone solution. For greater and more complex projects a client/server-architecture can be built. GroutControl® operates with different database systems like SQL-Server, MySQL, Oracle and Access.