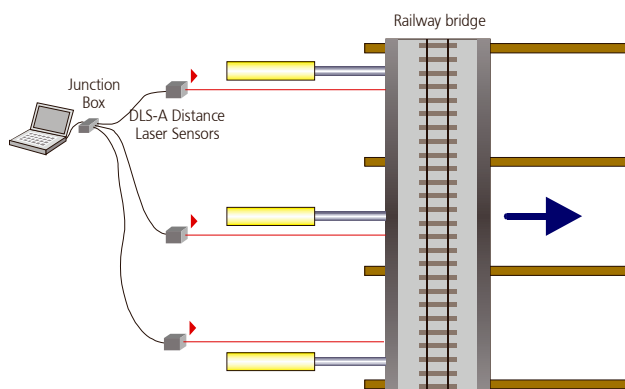




## Moving of large structures

To move large structures like buildings or bridges, the use of hydraulic cylinders are, in most cases, a cost effective solution. Moving these kind of structures calls for utmost precision. PolyDist, manufactured by Dimetix AG, is predestinated to control such processes.

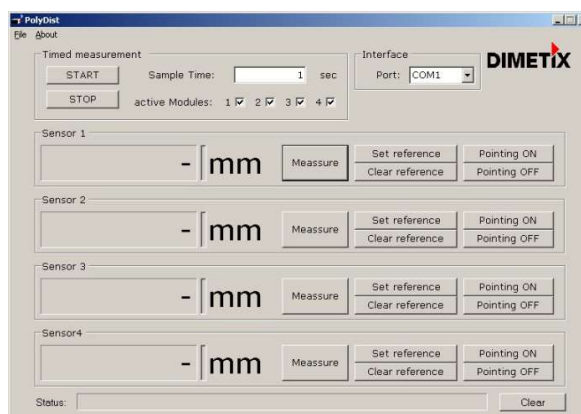
When bridges have to be moved it is mandatory that both bridge ends, bridge head and bridge foot are being moved simultaneously of the same distance. To move a bridge with a known, narrow tolerance band,



Pictures 1 Moving of a bridge

the process calls for continuous control in order to place it with precision and without damages in the foreseen, new position.

**PolyDist** enables the Engineer in charge to control the moving process at several positions with continuous, contact less measurements, out of harm's way. In doing so it can be secured that each hydraulic cylinder pushes synchronously the same given distance. The **PolyDist** System is a cost effective solution, which displays the moving process on a PC. The applied DLS-A Distance-Laser-Sensors ensure an accuracy of 1.5 mm within a measuring range of 0.2 to 200 meters. The standard – kit foresees a control process with 4 DLS-A sensors. Depending on the size of the structure to be moved an extension of up to 10 DLS-A sensors is possible.



Picture 2 User interface of PolyDist

### Application

1. Connect all DLS-A to a PC via a Junction Box
2. Switch on all DLS-A with Pointing Modes
3. Adjust/straighten all DLS-A to hit the measuring point
4. Zero in by mouse click
5. System ready to operate

Every move of the structure can be controlled and displayed on a PC with a measuring accuracy of 1.5 mm. Any measured values can be stored in a data file for further/later evaluation.

### PolyDist

With PolyDist Dimetix AG offers an easy to handle complete solution with a proven record. PolyDist includes the following components:

- 4 DLS-A Distance-Laser-Sensors (variation 1..10)
- 4 Connecting cables (optional 1m to 200m)
- 1 Junction Box
- 1 Mains Adaptor