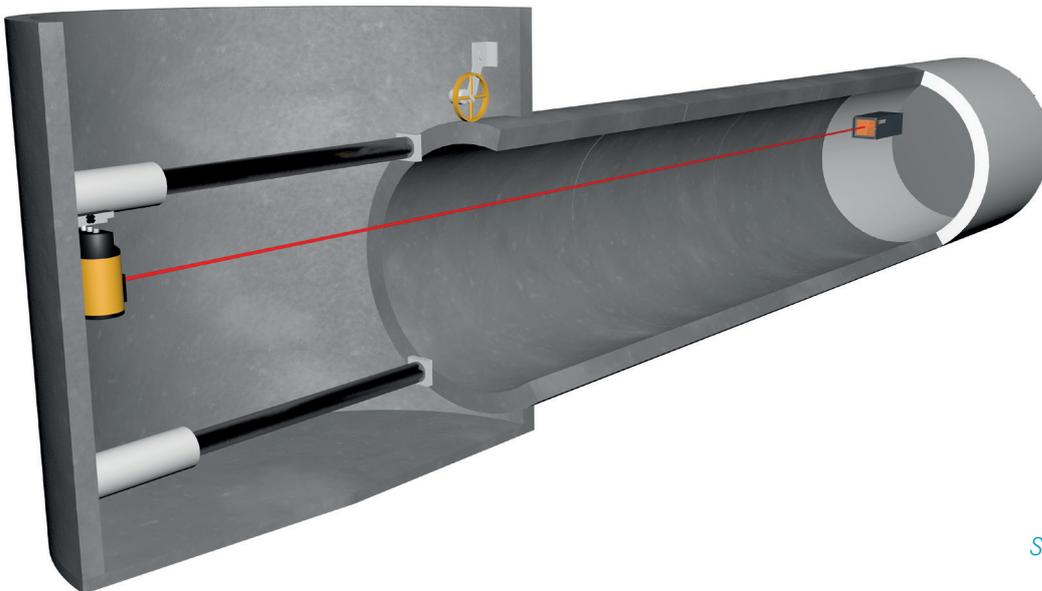


# SLS-Microtunnelling L

The navigation system SLS-Microtunnelling L determines with a laser target unit system all necessary data for navigating the TBM along the tunnel axis.

The navigation system SLS-Microtunnelling L is a laser target unit system with a tunnel laser mounted in the start shaft and an active target unit placed in the machine, which continuously determines the exact position of the Tunnel Boring Machine and displays the deviations with respect to the DTA immediately on the monitor at the operator's position.

The high content of information of the displayed data guarantees optimal control of the machine position in order to hold the deviations from the designed tunnel axis to a minimum. The system provides the operator with a continuous display of the position, orientation and tendencies of the machine.



*SLS-Microtunnelling L  
schematic*



## Benefits

- ▣ Optimal control by continuous monitoring of machine movements
- ▣ Fast action possible as deviations are quickly recognized
- ▣ High precision by redundancies
- ▣ High advance output power
- ▣ Modular expandable by further sensor and navigation systems

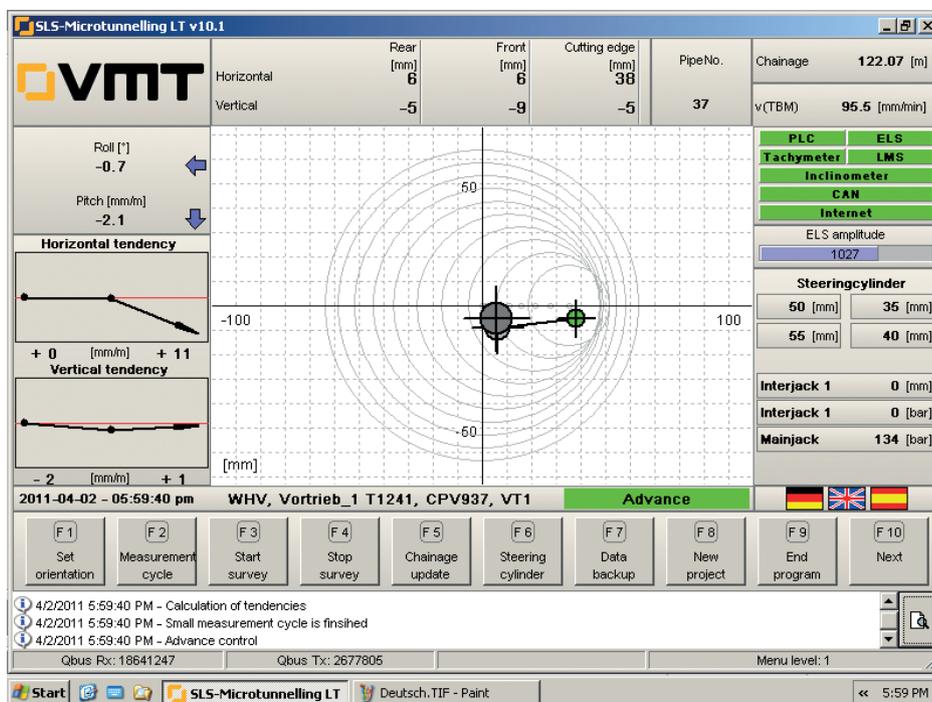
## SLS-Microtunnelling L

The robust and tunnel-proven hardware, easy to handle and user-friendly software with continuous recording of all important drive data, allows quick familiarization with the handling of the system.



### Features

- ▣ **Field of applications:** Microtunnelling, for straight advance, lengths up to max. 250m, all diameters
- ▣ Continuous graphical and numerical display of deviations and tendencies
- ▣ Connection to remote control and internet visualization
- ▣ PLC-connection to various types/producers
- ▣ All-over reporting according to ATV, customized expandable
- ▣ Stand-Alone-System for all types of machine



### Upgrade option to SLS-Microtunnelling L+

- ▣ For advances requiring increased vertical accuracy
- ▣ SLS-Microtunnelling L drives longer than usual and a required high vertical accuracy
- ▣ When used with an SLS-Microtunnelling LT used as a precise redundant height determination
- ▶ Accomplished by adding an electronic water level

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