

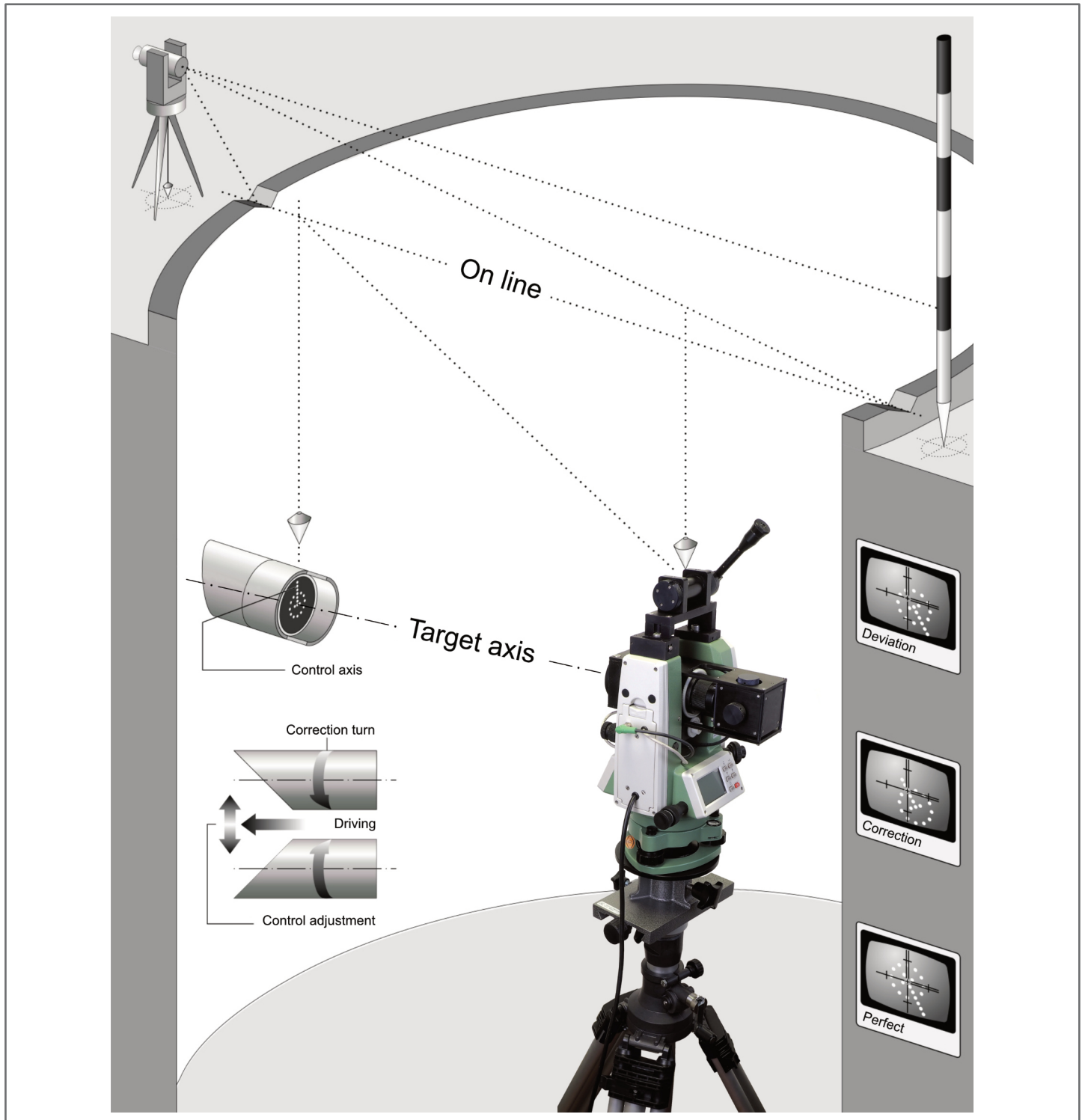
# Video Measurement System VM-17

With active illuminated  
target board

Has proven itself worldwide in  
rugged construction site conditions

Range up to 130 m

Wide variety



Designed, developed and  
made in Germany

The video measurement system VM-17 was specially developed for controlling pilot pipes with a range up to 130 m.

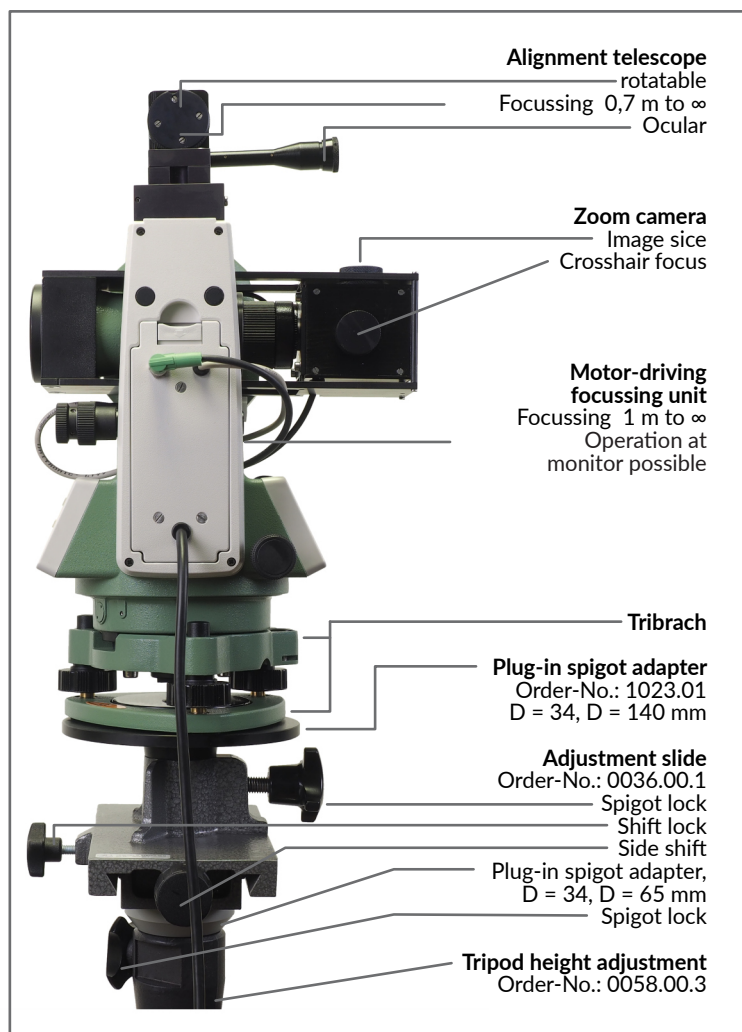
## Video Measurement System VM-17

A pilot pipe is pressed through the earth by the ground displacement method. The control adjustment is carried out quite simply by the inclined face of the control head.

The inclination is related to the control axis of the target board. The arrangement of the target board places the all-important control axis in the centre.

The target board is observed with a theodolite. A CCD camera transmits the picture to the monitor. Deviations from the target axis can be seen immediately and are corrected by turning the pilot pipe. The rotation is stopped as soon as the control axis is on the centre point of the telescope reticle. The height and direction are then corrected automatically as driving proceeds. The target axis is reached when the centre of the target board coincides with the centre of the telescope reticle.

The VM-17 is based on a theodolite with an automatic compensator and horizontal and vertical fine motion screw and clamp. You can carry out remotely the focusing of the telescope with the monitor MF-03. The magnification and focusing of the reticle image is done manually at the camera system. The power is supplied via the monitor.



### Alignment telescope

The solution for quick and accurate line transmission and monitoring. Use the good method of line orientation from bottom to top to your advantage.

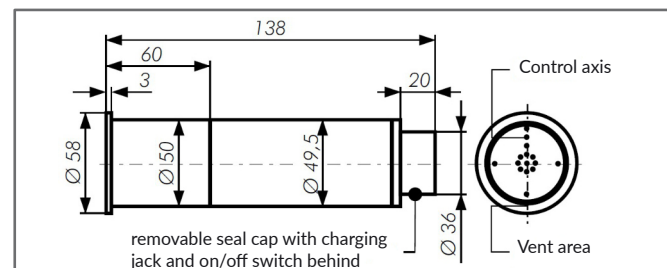
### Zoom camera

Image scale: ..... at 100 m target distance 1:0,5 to 1:2  
Standard deviation: ..... ± 10 mm/100 m

### LED target board GEO-2224 , Order-No.: 4007.25

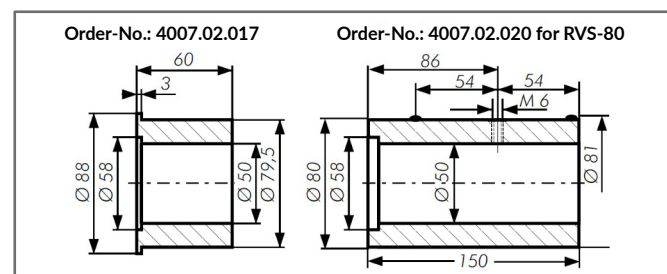
Target with integrated Lilon rechargeable battery, innovative energy saving function, excess temperature warning / cut-off.

Battery:..... Lilon battery, 3,7 V/6,8 Ah/ Operating time to 240 hours  
Watertight: ..... to 20 m Dimensions: ..... Ø 58 x 138 mm



### Target board adapter

For use of the LED target board GEO-2224 in larger pilot pipes.



### LG-23 Battery charger Order-No.: 4008.09 for GEO-2224

Prim: ..... 100-240 V AC 50-60 Hz  
Sec: ..... max. 4,2 V DC, max. mA  
Charging time: ..... 7 hours, depending on residual charge  
Short-circuit / inverse-polarity protection, automatic final charge cut-off.

### Dimensional MF-03 10.4" Flatscreen Monitor Order No.: 4005.29

Power supply 10.5 - 14 V DC/1.5 A. Integrated power supply for theodolite, camera, reticle illumination and focussing of theodolite camera.

### Dimensional sketch

