

HELICAL SCANNING – ENDLESS 3D MEASUREMENTS MADE SIMPLE!

HELICONTROL is a product of Metronom Automation GmbH and is used with the FARO Photon Laser Scanner in the Helicalmode. During this setting the Laser Scanner is moved on a user-defined rover system. The scan process generates a “sampling screw line (Helix)” .



Metronom Automation, the German specialist for high-end laser applications, offers a solution consisting of hardware and software for the use with the FARO Photon Laser Scanner in the helical mode. The scanner operates in 2D profiling-mode, where only the rotating mirror axis is used, while the vertical axis stays locked. Due to the motion of the scanner along a known track, a longitudinal profile is generated in form of a screw line.

Typical applications for this technique can be found in railway clearance detection. HELICONTROL consists of a stand-alone controller-unit, a data acquisition software and a software for fast data analysis. Additionally to the FARO Laser Scanner, a digital camera to record equidistant images, as well as an odometer (measuring wheel) to record the distance travelled can be connected to the controller-unit.

