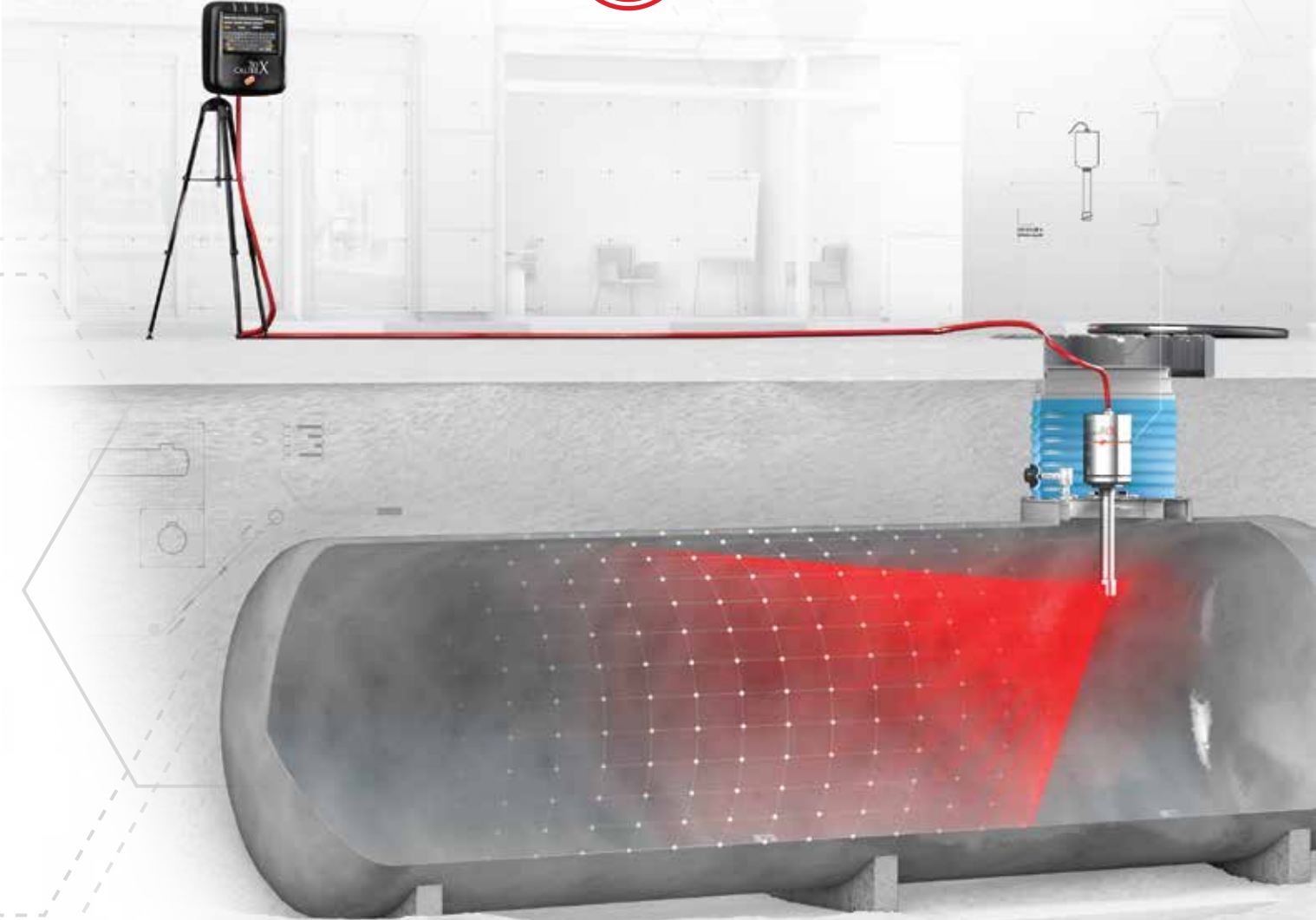




ASIS Automation and Fueling Systems

CALIBEX[®]

3D Laser Calibration Technology



Safely calibrating fuel tanks with high accuracy, even with fuel inside, in 30 min.

Security and Safety

All system components are designed and certified according to international safety regulations.



First in The World

Technical Specifications

- ▶ Measurement* accuracy in volume $\pm 0,3\%$
- ▶ Measurement* accuracy in distance $\pm 0,1\%$
- ▶ Measurement* accuracy in inclination $\pm 0,1^\circ$



*According to VSL and NMI evaluation results

- ▶ Measurement range: ~10 m
- ▶ Minimum entry hole: 2"
- ▶ Scanning tank: ~30 min
- ▶ IP protection: IP54
- ▶ Protection Class: ATEX
- ▶ CalibeX® dimensions: 75x15x15 cm, 6kg
- ▶ CalibeX® set dimensions: 100x40x40 cm, 30kg
- ▶ Power supply: 14.8 V (battery group included)

3D CalibeX® is one of the most comprehensive technological projects developed by ASIS. CalibeX® is a system composed of advanced robot mechanics, mechatronics, state-of-the-art electronic circuit design, on-board LEL device design, laser and optical applications, etc. and applications consisting of 3D modeling algorithms and data analysis software involving advanced mathematics.

CalibeX® have more advantages from any other calibration method used.

One of the most important features of the system is its capability of completing the calibration processes within a short time, in 30 minutes, by installing CalibeX® into any hole on tank.

All internal dimensions of the underground tanks, tank volume, tank length, inclination angle, dome shape and lengths are determined. Then, ASIS engineers create Calibration Table based on these data and 3D mathematical model.

Basic Features of the System

- ▶ One tank can be calibrated within 30 minutes
- ▶ Usable in all cylindrical-horizontal tanks
- ▶ Calculates diameter, length, inclination, dome shape and dome length
- ▶ Does not require tank to be empty
- ▶ Does not require external power
- ▶ It generates highly accurate calibration table
- ▶ It is very reliable and easy to use system
- ▶ Can be easily carried and installed
- ▶ Calibration process does not cause downtime
- ▶ Application of the system fully meets OHSE (Occupational Health, Safety and Environment)
- ▶ It is reliable and ATEX certified
- ▶ Worldwide patented product of ASIS



FILLING STATION AUTOMATION SYSTEMS

Petech Pump Automation System
Petech Mobile Container Automation System
Cymobil Tanker Automation System



TANK AUTOMATION SYSTEMS

Petech Tank Automation System
Tank Switch Controller / TSC
Tank Relay Unit / TRU



VEHICLE/CUSTOMER AUTOMATION SYSTEMS

Cyber TTS (UHF) Vehicle Identification System
Customer Identification System
MobileX Mobile Customer Identification System
PSensor Number Plate Identification Sensor



CENTRAL MANAGEMENT SOFTWARE

Central Management System (POL)
MAS (Central Alarm System)
Akaria Back Office Management Software



SIR/CALIBRATION

Fox SIR Statistical Inventory Reconciliation
▶ CalibeX 3DLaser Calibration Technology ◀



TAKE CONTROL

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