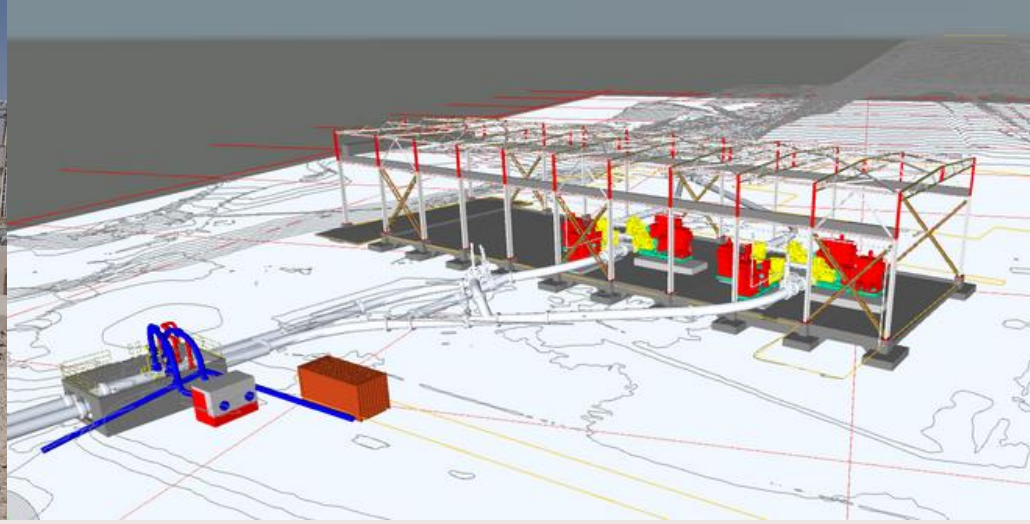
TOPOGRAPHY SERVICES

BRASS



As part of our product portfolio, we offer photogrammetric surveying services using UAVs, georeferencing with GNSS systems, topographic controls, point cloud acquisition with 3D laser scanners, construction inspection, and support, all tailored to meet the diverse requirements of our clients.

Our high-tech equipment, combined with advanced data processing software, enables us to deliver accurate results quickly and efficiently.

We are a company with over 20 years of engineering experience, recognized globally as specialists in long-distance fluid transport systems, where topography has always been a critical factor.

- 3D surveys using laser scanners to generate digital models from point clouds.
- Georeferencing of projects using a GNSS system.
- Topographic surveys with a drone (photogrammetric and LiDAR)
- Technical inspection of works with the support of a drone.
- Geodetection

www.brassengineering.com

Our Services

Point Clouds

We have the capability to create 3D digital models of structures and physical assets, enabling planning, optimization, and decision-making based on detailed information through a virtual and realistic representation of the environment.

Orthophotos

Using GNSS data processing software and digital photographs, we generate high-resolution, georeferenced orthophotos and three-dimensional (3D) geospatial data. These resources are based on high-quality aerial images captured by drones, enabling the creation of detailed maps for a better understanding of the environment.

Reference Point Monumentation (RP)

We use GNSS instruments to georeference topographic vertices and advanced software for processing ground observations, ensuring the precise definition of coordinates. Our services include the use of high-precision GNSS receivers to guarantee the accuracy of the data recorded, which is essential for adjusting drone flights throughout the workflow.

Technical inspection of works

We oversee the implementation during construction, verifying and controlling the buildout to ensure it adheres to technical specifications using topographic equipment.

Cutting-edge technology

BRASS uses cutting-edge technology to deliver high-precision and quality results in topographic surveys. We employ drones equipped with specialized sensors for photogrammetric and LiDAR surveys, allowing us to map large areas of land in a detailed and precise manner. This capability enables efficient flights with minimal personnel on the ground, capturing images that are then processed to generate high-value topographic products for decision-making and project evaluations.

3D laser scanner

The service involves conducting surveys of existing structures and converting them into a three-dimensional digital format using a 3D Laser Scanner system. This system is highly efficient at capturing valuable, high-precision, and reliable data. Such information is crucial for evaluating the integrity of equipment, pipes, civil works, and more. Specialists can analyze the data to detect and diagnose potential issues, such as loss of verticality, deformations, and other characteristics.

Topographic surveys

Topographic surveys for various industries, including Mining, Energy, Hydraulics, Construction, Forestry, and more.

Geodetection

With Geodetection Technology, BRASS can detect underground pipelines or structures non-invasively, avoiding the need for test pits or other destructive interventions. Aligned with innovation, BRASS has developed a dedicated area for providing detection services for underground elements using Ground Penetrating Radar (GPR), supported by specialized instruments and professionals.

BRASS

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