CASE STUDY

Montuotojas, a leader in engineering solutions, streamlines design and calculation with Octave Aspect analysis solutions

Key facts:

Company: Montuotojas

Website: www.montuotojas.lt

Industry: Construction, Engineering

Country: Lithuania

Octave products used: Aspect Pressure Vessel *(PV Elite),* Aspect Tank *(TANK)*

Key benefits:

- Menu-driven interface for quick data input and accurate API standard analysis
- Detailed analysis and reporting with environmental condition considerations
- Comprehensive design and analysis capabilities with extensive material databases

Montuotojas is one of the largest engineering companies in the Baltic states, offering a wide range of services to various industries: general contracting, design, production and installation services.

The company's scope of services ranges from designing to erecting tanks, silos and pressure vessels, steel structures and various technological equipment.

With a history spanning more than 60 years, Montuotojas has established relationships with partners in Lithuania and across Europe. The company operates in many sectors, from manufacturing to energy and construction, engaging in projects such as airplane hangars and 50-ton glassmaking ventures.

Challenges: The need for unified tank software to meet the requirements of all stakeholders

Montuotojas is one of the few companies in Lithuania offering a complete service spectrum to clients, spanning from design to installation. The company specializes in designing and erecting a range of equipment for the industrial sector, a task that often presents unique challenges. This approach underscores the importance of effective communication and precise information transfer to the manufacturing team. Given the high turnover of assembly line workers and their limited proficiency in interpreting technical drawings, the need for more detailed drawings and precise metric measurements becomes crucial.

Montuotojas needed to ensure comprehensive tank design, analysis, and compliance with standards. This includes the use of pre-set code equations and substitutions for easy verification of calculation accuracy. Consequently, Montuotojas requires tank design software that meets the diverse needs of its stakeholders.

Aspect Tank: A critical tool for project adaptability

In oil storage tank projects, precise analysis aligned with American Petroleum Institute (API) standards is crucial. The tool streamlines the process and ensures that the calculations conform to the relevant standards of oil storage tanks set by these standards.

The performance of Aspect Tank was evidently showcased during a considerable oil & gas tank project with a major entity in the power sector. Mindaugas, Design Engineer at

"Aspect Tank is an incredibly advantageous piece of software: not only is it highly user-friendly, but it also comes fully equipped with already established codes for oil storage tanks, which can save up to a week of work."

Kukis Mindaugas
Design Engineer,
Montuotojas

Montuojas, noted, "This project was primarily developed using Aspect Tank, with its API 650 function deployed to calculate various tank structures."

The software provides a user-friendly engineering interface that speeds up the calculation and analysis process. Aspect Tank's pre-set code enables structure and design compliance while streamlining the process. The calculation of structure and compliance analysis, which could take a week, was completed within two to four hours."

For Montuotojas, Aspect Tank offers a versatile and cost-effective solution, suitable for a wide range of project scopes. The capabilities of Octave's software extend to the design and analysis of wind loads, seismic, settlement load considerations, shell course thicknesses and supported cone roof analysis encompassing various roof types.

Montuotojas is thoroughly equipped to handle diverse projects, thanks to its access to Aspect Tank and Aspect Pressure Vessel. These distinct tools are essential for the design and analysis of pressure vessels and storage tanks. The ability of these software solutions to adapt to various project sizes is a key aspect of Montuotojas' operational efficiency. With the significant diversity in project scopes found within the Baltic countries, Montuotojas has earned a reputation for its adaptability. The company is capable of managing any EPC (engineering, procurement and construction) contract in the region, skillfully handling projects regardless of their scale or complexity.

Finally, the use of Aspect Tank also aids in the visualization of tanks for the workers at Montuojas. Mindaugas said, "We use Aspect Tank software only for data analysis. The



fabrication drawings are developed with parametric modeling software, and then, using different software, I can construct the model."

The Results

- **Saving:** Reduced calculation time from one week to four hours
- **Regulatory Compliance:** Ensured designs adhered to API standards
- **Improved Communication:** Comprehensive analysis reports'

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property,and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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