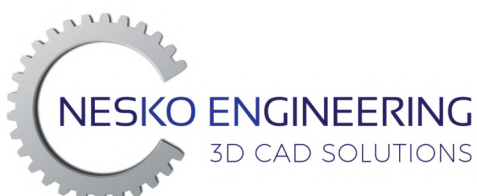


COMPANY BROCHURE



- CONSULTING
- (REVERSE) ENGINEERING
- TECHNICAL DOCUMENTATION
- COMPUTER AIDED ENGINEERING
- PRODUCT DEVELOPMENT
- CFD SIMULATIONS
- CE & DNV PROCEDURES
- 3D SCANNING & MEASURING
- ASSEMBLY MANUALS
- VIRTUAL & AUGMENTED REALITY
- STRENGTH CALCULATIONS

WE WILL FIX IT!



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Molenweg 36, 2930 Brasschaat

NESKO TEAM

Founded in 2012 by Koen Van Elsacker, NESKO Engineering has grown into a leading mechanical engineering firm. What started as a one-man business has now evolved into a team of experienced professionals with extensive expertise.

With a passion for technology and a focus on quality, we provide tailor-made solutions for manufacturing companies and their suppliers.

Over the years, we have built an impressive portfolio with more than 250 satisfied clients across various industries.



VISION

We aim to be an extension of our clients engineering departments.

MISSION

We deliver **high-quality engineering services** to efficiently and successfully execute industrial projects.

With our experience, innovative solutions, and precise simulations, we ensure that **technical challenges are addressed correctly from the start.**

STRENGTHS

Extensive Capacity

"No in-house capacity? We fill the gaps and ensure seamless project continuity."

Accelerated Turnaround Time

"Need it done faster than you could do it yourself? Our efficient approach delivers rapid results."

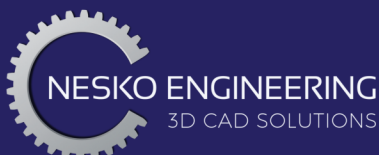
Dedicated Project Management

"Our project managers are involved throughout the entire process, from start to finish, providing consistent and reliable support."

Technical Expertise

"Lack in technical knowledge? We provide the expertise you need to make your projects successful."

At NESKO Engineering, we believe in creating added value by offering reliable services that ensure the success of your projects.



ACTIVE SECTORS

- Petrochemicals & Gas
- Construction
- Chemicals
- Lifting
- Food Industry
- Machine Construction
- Offshore
- Automotive
- Pharmaceuticals





CONSULTING

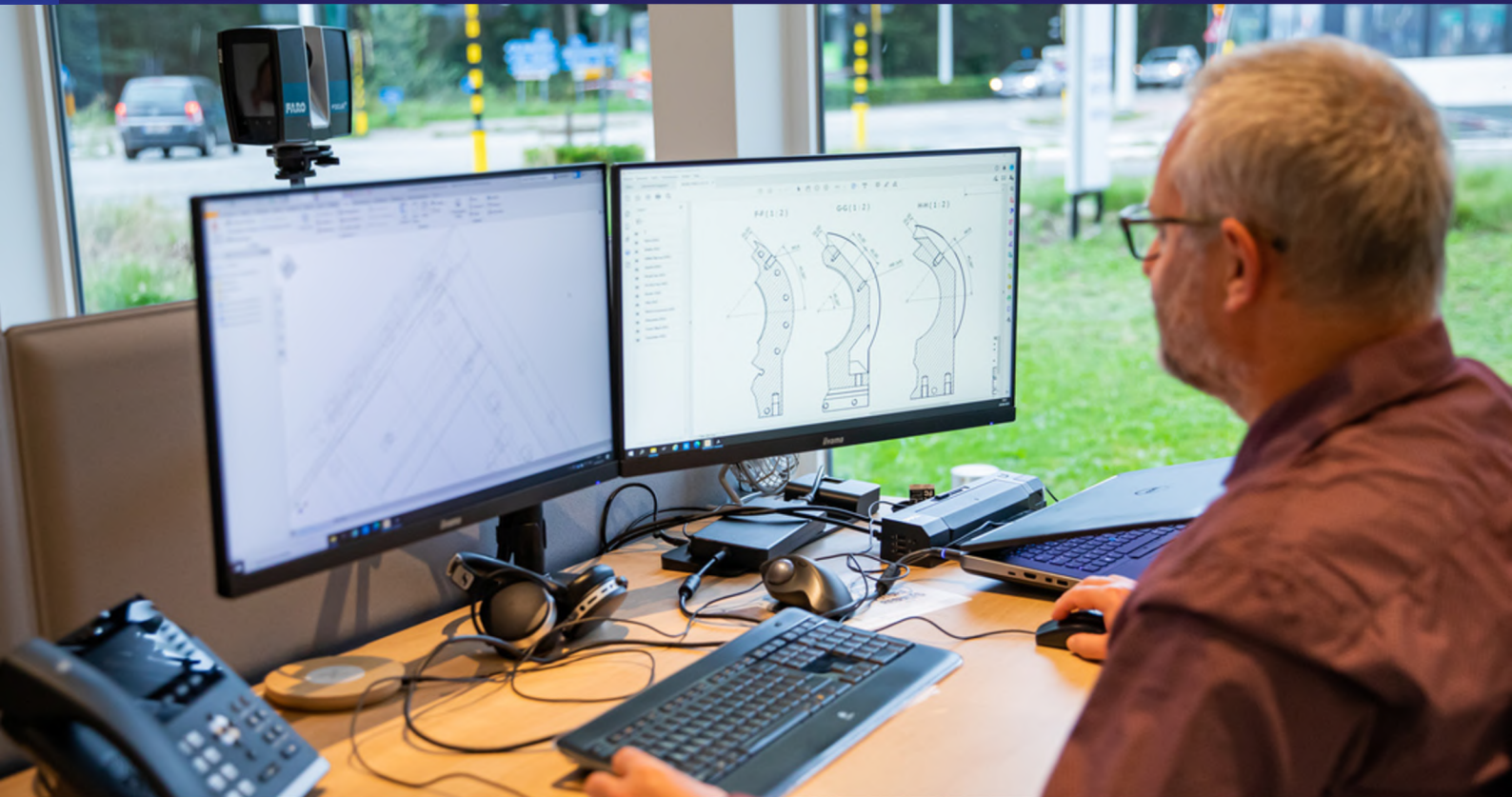
At NESKO Engineering, we do more than just CAD work on commission; we also guide our clients through their own CAD processes. Through training and consulting, **we help optimize the use of software, systems, and personnel.**

Our extensive knowledge and experience with SolidWorks, Inventor, AutoCAD, Parabuild, Tekla, & Plant 3D, combined with our deep understanding of our clients' industries, lead to **rapid improvements in quality and productivity.**

(REVERSE) ENGINEERING

Two key services offered by NESKO Engineering are designing machines and mapping existing machines (reverse engineering).

We use the most advanced CAD technology and rely on our extensive experience to deliver solutions that fully meet—and often exceed—our clients' expectations.





TECHNICAL DOCUMENTATION

Technical illustrations in 3D and animations often serve as a bridge between technicians and non-experts. We use existing CAD models for manuals and work instructions. NESKO Engineering is known for its expertise in creating these illustrations, which are used in products such as:

- Spare part lists, online catalogs, exploded views and manuals.
- The documentation produced by NESKO Engineering is often an essential part of obtaining a CE or DNV certification.

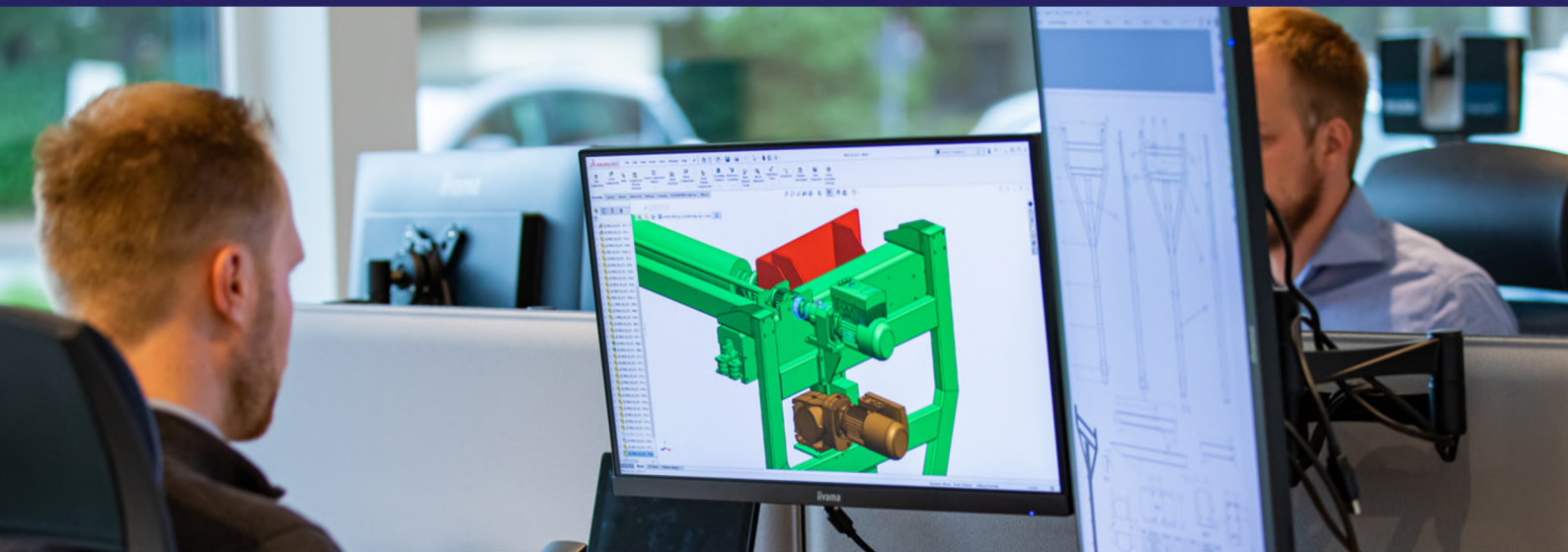
COMPUTER AIDED ENGINEERING

Computer-aided engineering, or CAE, involves using computers for industrial design applications.

A key aspect of this process is the ability to convert design drawings developed during the design process directly into instructions for production machines.

CAE is widely used in various industries that rely on design software for product development and machine construction.

The advantage of CAD software is **the ability to test and simulate designs without the need for a physical prototype**, saving both time and money.

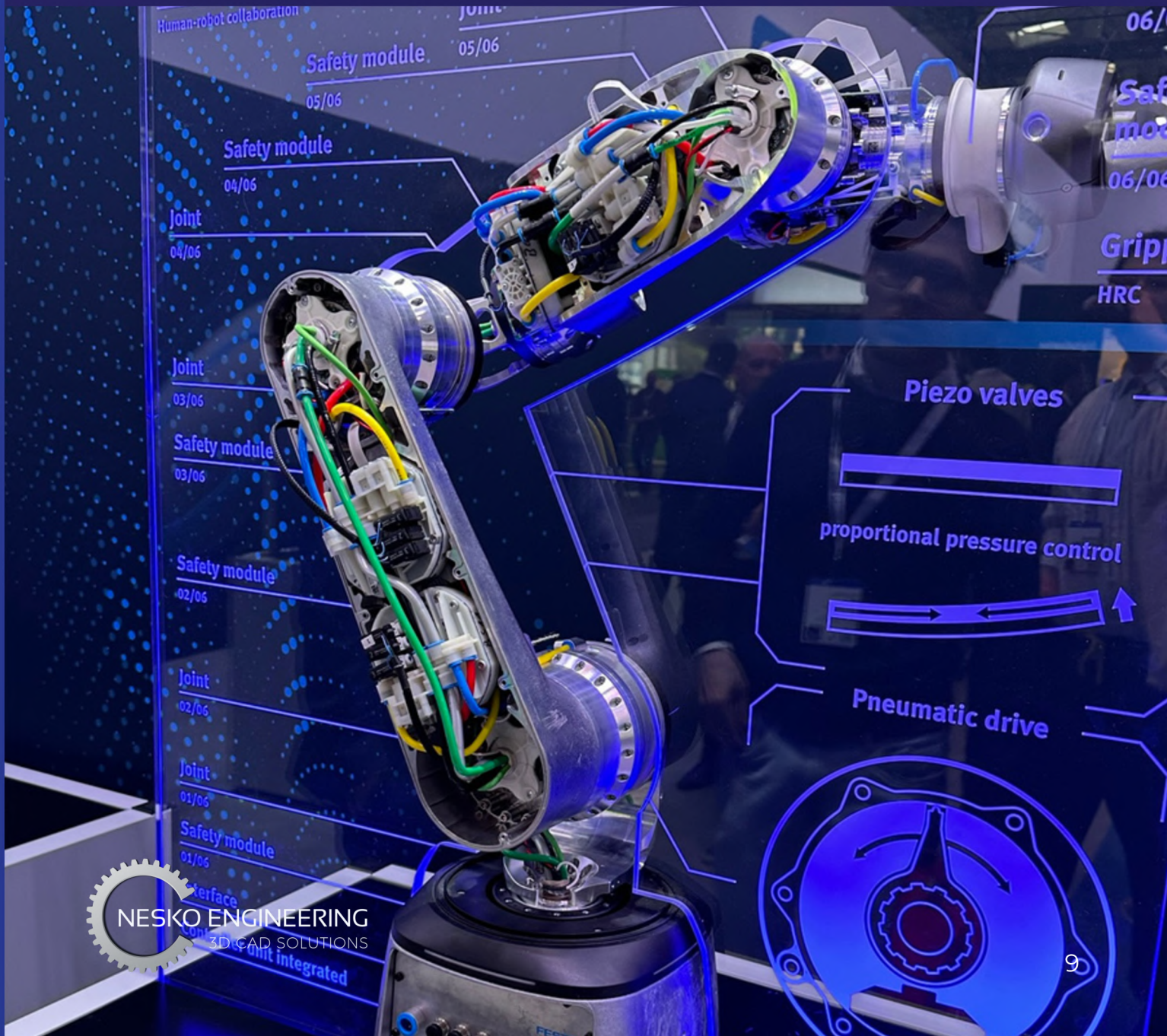


PRODUCT DEVELOPMENT

From **idea to prototype to mass production.**

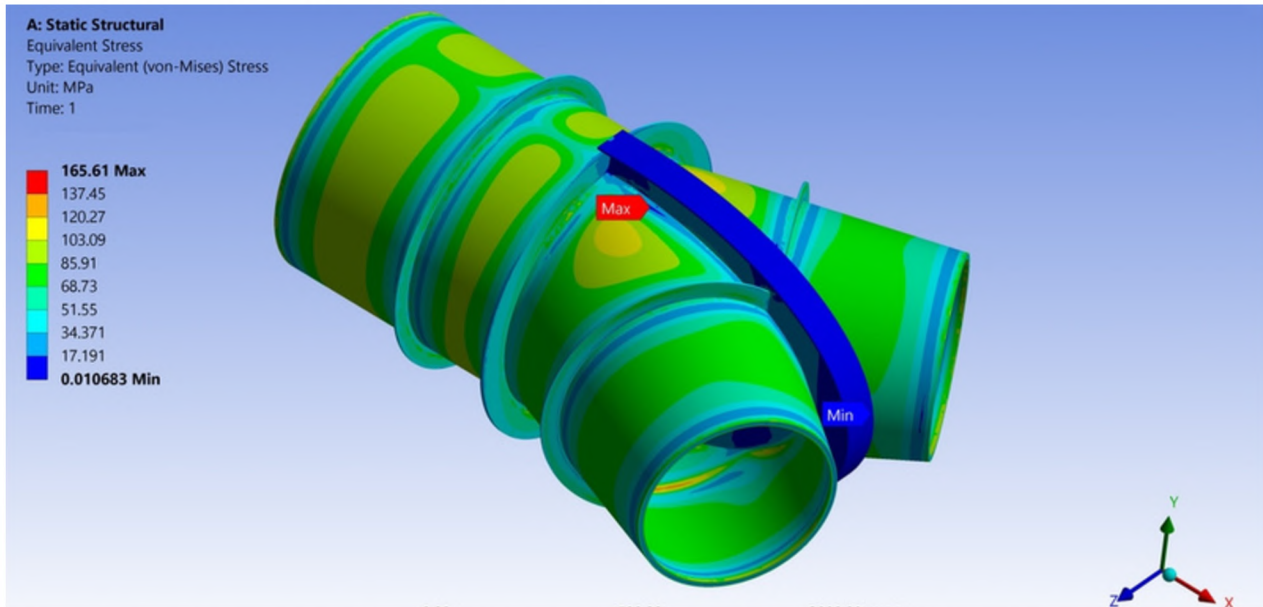
In addition to strong technical skills, the NESKO Engineering team possesses expertise in idea generation and problem-solving.

Do you have an interesting idea, concept, or prototype but lack the time or skills to develop it? NESKO Engineering can help!



CFD SIMULATIONS

Computational Fluid Dynamics (CFD) is a cutting-edge simulation technique used to analyze and predict fluid flow, heat transfer, and aerodynamics in complex systems.



By using advanced algorithms and numerical methods, CFD enables engineers to visualize, optimize, and validate designs before physical prototyping.

Whether it's air, water, gases, or other fluids, CFD helps engineers understand how they behave under different conditions—reducing costly trial-and-error processes and improving efficiency.

Applications of CFD:

- ✓ Aerodynamics & Airflow Analysis – Optimize ventilation, HVAC, and aerodynamic performance.
- ✓ Thermal Management – Simulate heat dissipation and cooling for electronics, engines, and industrial systems.
- ✓ Mixing & Chemical Processes – Enhance efficiency in reactors, pipelines, and combustion chambers.
- ✓ Fluid-Structure Interaction (FSI) – Study how fluids impact mechanical components, reducing stress and improving durability.
- ✓ Pumps, Valves, and Piping Systems – Ensure smooth fluid transport and prevent cavitation or pressure drops.



CE & DNV PROCEDURES

The CE and DNV process in engineering is essential for ensuring that a product complies with the legal requirements set.

This process involves multiple steps to ensure that a product is safe and meets regulations before reaching the market.

Steps in these procedures:

- 1. Preperation:** Define the product and identify the relevant regulations.
- 2. Information Gathering:** Research the specific Euopean standards and regulations applicable to your product.
- 3. Risk Analysis:** Identify and minimze potential risks associated with the product.
- 4. Design Phase:** Consider CE and DNV standards and risks during the design process.

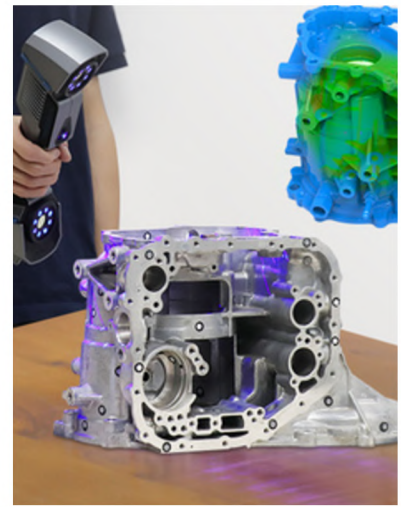
- 5. Prototype Development:** Create a model to verify functionality.
- 6. Testing:** Ensure the product meets all safety requirements.
- 7. Technical Documentation:** Document all steps, tests, results and modifications.
- 8. Declaration of conformity:** Issue a Declaration of Conformity (DoC).
- 9. CE/&DNV marking:** Once compliance is confirmed, the mark is applied to the product.
- 10. Market launch:** The product can now be freely sold.
- 11. Post-Market surveillance:** Monitor the product to make sure continued compliance is guaranteed.
- 12. Periodic review:** Regularly update the product and documentation to align with new regulations.
- 13. Continuous improvement:** Engineering is never truly 'finished' there is always room for improvement and optimization.

These procedures ensure that products are not only safe but also comply with the strict standards.

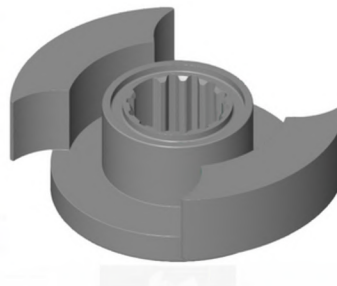
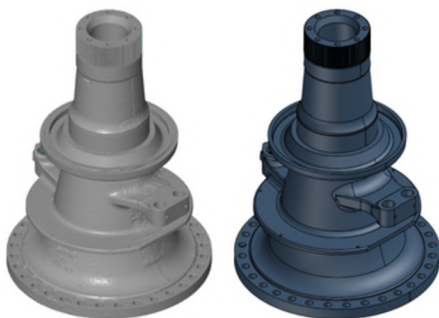
3D SCANNING & MEASURING

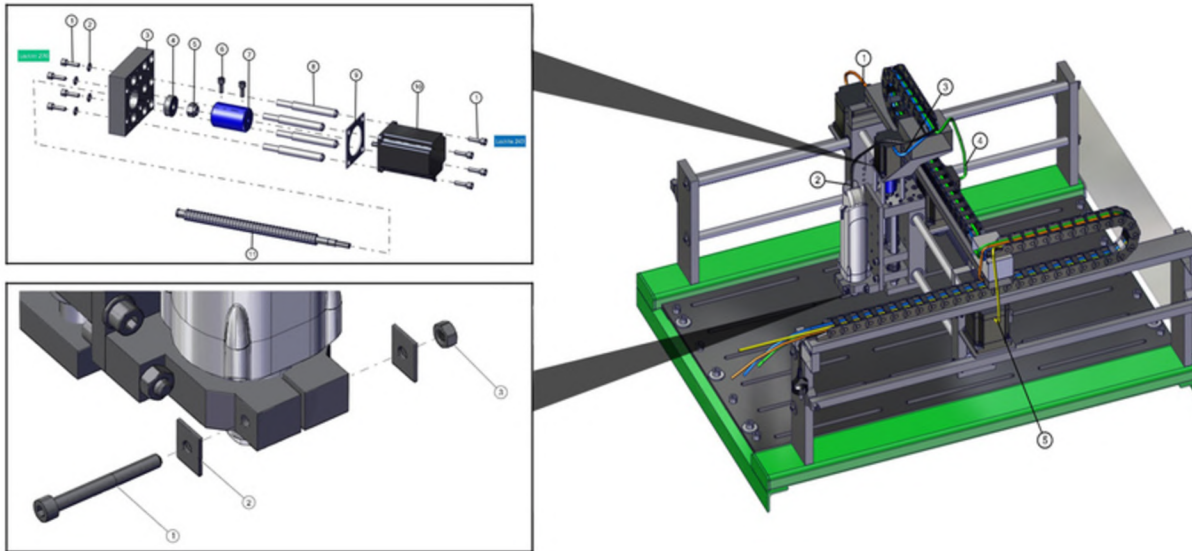
In some cases, it is necessary to scan a part, machine, or structure before beginning the design process.

For this, we use various measurement tools to obtain accurate data.



"In the images below, you can find examples of the original piece and the 3D scan, respectively."





ASSEMBLY MANUALS

If you have a machine or product but no manual, NESKO Engineering can assist you!

Why you could need a Manual:

- To complete the CE certification documentation.
- So customers can maintain/build the product themselves.
- To ensure that any trained employee can assemble the machine.
- For marketing purposes.

Our Process:

1. We start with a consultation to determine your requirements.
2. If no 3D model is available, we can convert 2D drawings or physical models into 3D.
3. We decide on details such as style, color, and level of detail together.
4. We provide progress updates to ensure the final manual meets your expectations.

VIRTUAL & AUGMENTED REALITY

VR (Virtual Reality) and AR (Augmented Reality) have been gaining traction in recent years.



These technologies are especially useful in machine assembly or repair. Imagine arriving at a customer site, looking at a machine, and seeing an interactive guide pop up with step-by-step repair or assembly instructions.

NESKO Engineering provides virtual guides for improved efficiency and precision.



STRENGTH CALCULATIONS

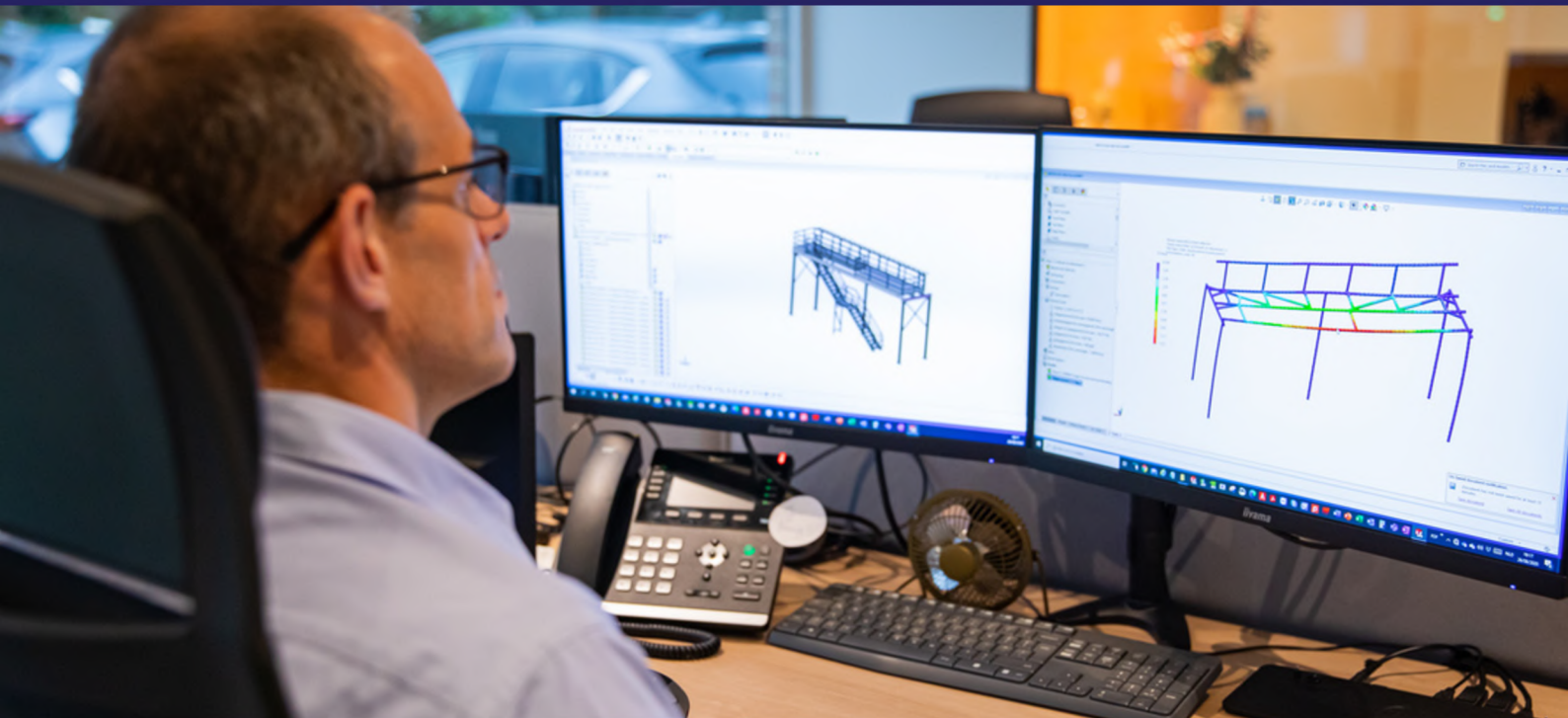
NESKO Engineering supports the design process with strength calculations, which analyze material stress and deformation.

Key questions answered by strength calculations:

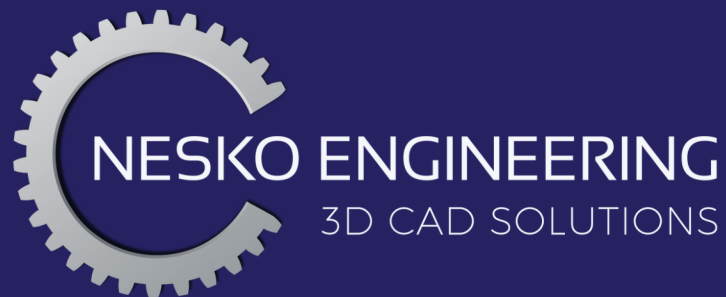
- How high/wide/thick should each component be?
- Which elements need reinforcement?
- Where can we reduce weight?
- Which material quality should be used?

Calculation methods:

- Manual calculations using custom spreadsheets
- Finite Element Analysis (FEM/FEA) performed in SolidWorks Simulation



HOW CAN WE ASSIST YOU?



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Schedule a free consultation:
<http://booking.neskoengineering.be/>

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