



design  
development  
calculations  
consultancy



**DESIGN OFFICE**  
NYBORG GROUP

**NYBORG MAWENT  
DESIGN OFFICE LTD**

## COMPANY IN BRIEF

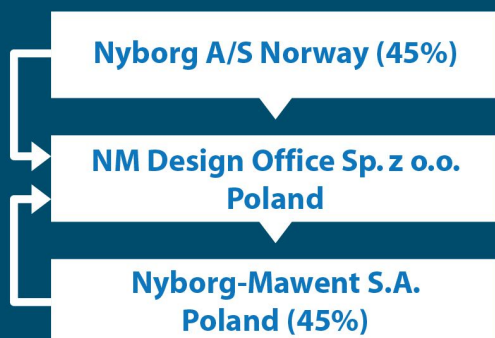
„Nyborg Mawent Design Office” Ltd was established in the beginning of 2010. The Design Office is a member of the „Nyborg” capital group, owned by the Norwegian „Nyborg” A/S and „Nyborg – Mawent” S.A. fan factory.

The company was established by the staff employed at the Malbork fan factory, and the designers of the ventilation systems, who originated from the shipyard industry.

At present, the NM Design Office is situated in Gdynia. We seek to be close to the shipyard industry located in the twin cities of Gdynia – Gdansk, as well as to and air conditioning “hub” located in the Pomeranian province. This location gives us easy access to potential customers.

Employment > **10 engineers**

### NYBORG GROUP



## Our offer

- 1 design,
- 2 development,
- 3 calculations, simulations
- 4 consultancy, project management
- 5 modernization, repairs and modifications,
- 6 “Tailor made” solutions.
- 7 We also handle the completion and delivery of ventilation equipment – mainly fans with a full range of accessories.

**In case of custom orders, we can also design specially-dedicated devices for a particular project. Our abilities in this range are actually unlimited:**

- 1 2D drawings in CAD format,
- 2 3D drawings in Solid Edge,
- 3 thermodynamic calculations of air installations (flow resistances of installations, thermal and moisture balances of compartments),
- 4 a comprehensive selection of equipment and accessories used in our systems.

**We provide project realization from a concept through to the implementation stage. We succeeded many times in supplying comprehensive ventilation solutions, i.e., project, supply, author’s supervision, start-up and system configuration.**

**Each case is treated individually. Many years of experience guarantees success of every investment.**

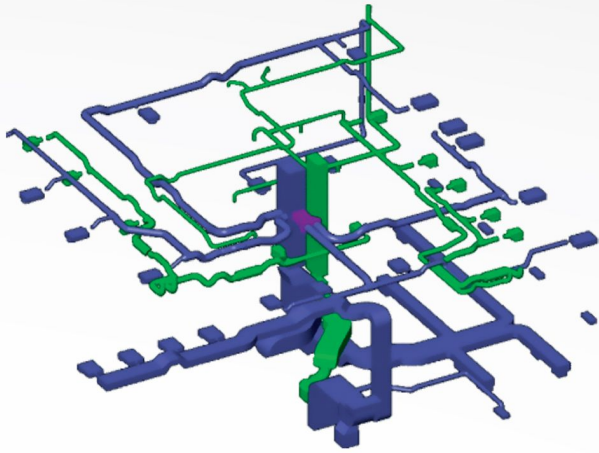




# FIELDS OF ACTIVITY EQUIPMENT DESIGN

**„NM Design Office” offers comprehensive designing services of ventilation and related branches.**

- ▶ industrial fans - axial and centrifugal,
- ▶ fans in heat- and chemo resistant versions,
- ▶ ex-proof fans for hazardous areas,
- ▶ fans in OEM version (making components of other units – e.g. as air handling units),
- ▶ fans for marine industry,
- ▶ ventilation accessories (cut-off dampers, fire dampers, flow-adjusting dampers, silencers, louvers, droplet separators, ventilation cowls, etc.),
- ▶ complete set of documentation- so called „databooks”,
- ▶ research and development.



## FIELDS OF ACTIVITY SYSTEMS DESIGNING

**As mentioned, apart from documentation, we also design complete installations and provide consultancy.**

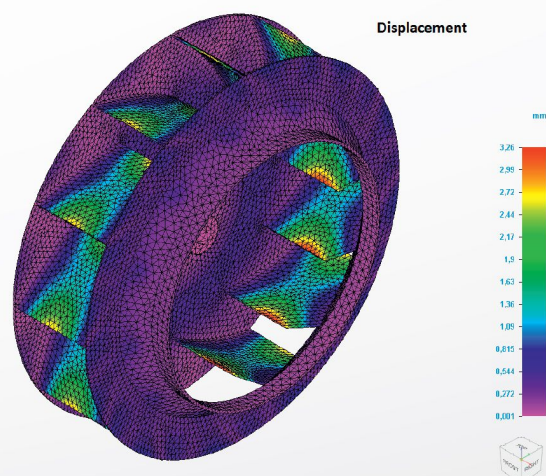
- ▶ ventilation installations,
- ▶ air-conditioning installations (complete thermal and moisture air treatment),
- ▶ systems for air drying and humidifying, specifying of consumption for media in remaining branches demands of: heat, "cold", steam, heating water, electric power, etc.),
- ▶ designs for the marine and land development industry, including modeling of various naval
- ▶ installations (mechanical, ER, HVAC) - considering particular rules, standards and requirements set by classification societies,
- ▶ investment/project supervision, including on-site supervision,
- ▶ Technical advisory and consultancy (hygro-thermal and moisture calculations, energy and economic analysis, strength calculations and simulations).

## FIELDS OF ACTIVITY ELECTRICAL AND CONTROL

- ▶ specifying electrical devices for achieving system compatibility (control and safety switches, enclosures, cables, cable glands),
- ▶ providing electrical and control systems documentation (wiring diagrams, layout drawings, part and cable lists)
- ▶ cable-tracing for mechanical designs,
- ▶ motor starters, control and terminal boxes design,
- ▶ automatic control systems of constant and variable pressure, flow, temperature etc.,
- ▶ electrical and control systems support.

## FIELDS OF ACTIVITY MECHANICAL & THERMODYNAMICAL FLOW CALCULATIONS

We are able to predict the air volume, pressure drop, noise, vibrations, power consumption, heat transfer, strength & deflections of equipment that are being designed using special CFD (Computational Fluid Dynamics) and FEM (Finite-Element Method simulation) analysis software.





## OUR STRONG POINTS

# Why should you entrust with the implementation of your goals?

The answer is simple – among other design offices we are distinguished by the following advantages:



## we look forward to doing business with you

**we form a highly specialized office with solid experience and engineering staff focused on the product, we have production facilities in a shape of factories „Mawent” and „Nyborg”, where execution of our projects is possible,**

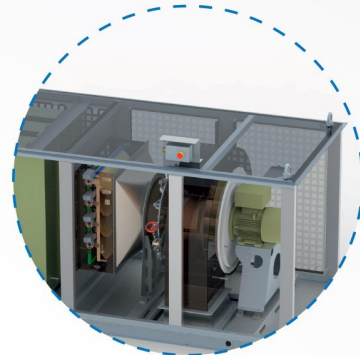
## PROJECTS EXECUTED



**Fan Skid  
for Eureka Pumps**



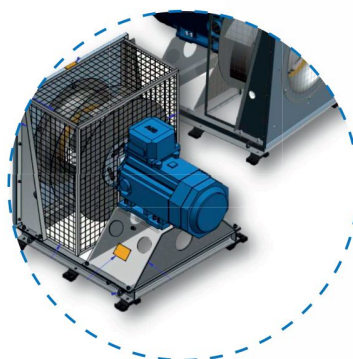
**Fan Skid  
for National Oilwell**



**Air Handling Unit  
for IAC Acoustic**



**Fire Dampers**



**Plug Fans**



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