

# Global supplier

to the offshore industry



**ALUWIND**



# Company profile

Since 1995, Aluwind has been a professional partner to the wind industry, and therefore has more than 15 years of experience in designing and producing aluminium components and structures for wind turbines.

Aluwind has 100% focus on the wind industry and its requirements for durable and lightweight products, flexible and cost-efficient production and reliable deliveries.

With production and sales locations in Europe, China and North America, we are in position to serve our customers on a global scale, and we design individual products for optimal performance and cost effective manufacturing, by utilizing the maximum properties of the aluminium.



# Aluminium in the offshore environment

Aluminium has already been used for more than 25 years in several offshore and marine applications, such as helidecks, gangways, railings and stairs.

The thin layer of aluminium oxide that forms when aluminium is exposed to air, makes the aluminium highly resistant to corrosion in the atmospheric zone. As a consequence, aluminium structures and

components do not need surface coating, offshore maintenance related to paint, or expensive inspections and repairs.

Even if aluminium as a material is more expensive than that of steel, the cost of the final mounted structure is in many cases, less, as the overall material consumption is approx. 50% less, since costs related to blasting, metalizing, painting and paint touch-ups are eliminated.

## The advantages of using aluminium:

- Faster to manoeuvre and assemble due to the low weight, and it enables last-minute changes onsite.
- Higher corrosion resistance in maritime environments than many other metals, e.g. steel.
- Demands for less pre-installation processes and maintenance.
- High strength-to-weight ratio can provide a 50% weight saving compared with steel.
- Cost effective production and shipping process via standardized mass produced modules.
- 100% re-usable and recyclable with high scrap value.
- High formability of the aluminium allows for specialty and modular design.
- Significantly lower life cycle costs as there is no need for paint repairs or replacements caused by corrosion.



# Aluminium for your offshore project

As a corrosion resistant, durable, lightweight and easy formable metal, aluminium is easily formed into structures and components for the offshore industry.

With significant advantages, aluminium can be applied for most structures traditionally referred to as "secondary steel".

Aluwind's design and production for offshore wind turbine foundations includes structures such as:

- Complete landing platforms
- TP Covers
- Internal platforms (e.g. switchgear and flange inspection platforms in transition pieces)
- Ladders
- Gates and hatches
- Sign plates
- Various brackets and holders for lights, cables and life-saving equipment.
- Railings with integrated functions, such as cable trays.



# Unmatched track record

Project name	No. of turbines	Delivery year	Solution					Scope	
			TP-cover	TP-cover with strong point	TP-internals	Railings & accessories	Retrofit	Design	Production
Kriegers Flak	72	2020			●				●
Hornsea 2	165	2019				●		●	●
Seamade	58	2019		●				●	●
Triton Knoll	90	2019		●				●	●
Borssele 3 & 4	77	2019				●			●
Greater Changhua	N/A	2019				●		●	
Coastal Virginia	2	2019				●		●	●
Vineyard	N/A	2019				●		●	
Horns Rev 3	49	2018	●					●	●
Horns Rev 3	49	2018			●				●
Borssele 3 & 4	77	2018				●		●	
Godewind 1 & 2	97	2018					●	●	●
Borkum Riffgrund 1	78	2018					●	●	●
Rentel	42	2017	●					●	●
Hohe See	71	2017		●				●	●
Hywind	5	2017	●					●	●
Hornsea 1	56	2017				●			●
Hornsea 1 (Substation)	1	2017				●		●	●
Norther	44	2017				●		●	●
Arkona Becken	60	2017					●	●	●
Burbo Bank Extension	32	2015				●		●	●
Westermost Rough	35	2015				●		●	●
Borkum Riffgrund 1	78	2015				●		●	●
Godewind 1 & 2	97	2014				●		●	●
Gemini	150	2014	●					●	●
West of Duddon Sands	108	2013				●		●	●
Amrumbank West	80	2013	●		●			●	●
Lincs	75	2013				●		●	●
Thornton Bank 1 & 2 & 3	54	2011				●			●
Sheringham Shoal	88	2011				●			●





## We design your solutions - or help you design them

Aluwind designs individual products for optimal performance and longevity in close collaboration with our customer. Our design team is available to co-design projects with your engineers, but we can also completely design your components.

Our state-of-the-art production units and the highly skilled workforce meet the wind industry's demands to certification, quality assurance, delivery precision and flexibility.



### **We also design and manufacture**

Tower internals, Nacelle components and Helihoist – a complete aluminium solution for both on- and offshore wind.



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