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GRIDIN'S GROUP

WIND ENERGY SERVICES

Gridin's Group certificates

ISO 9001
ISO 14001
ISO 18001

We offer cost-effective solutions in project management and implementation, including training and selection of technical specialists based on customer requirements.

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12. Repair of rotor blades/towers
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ABOUT US

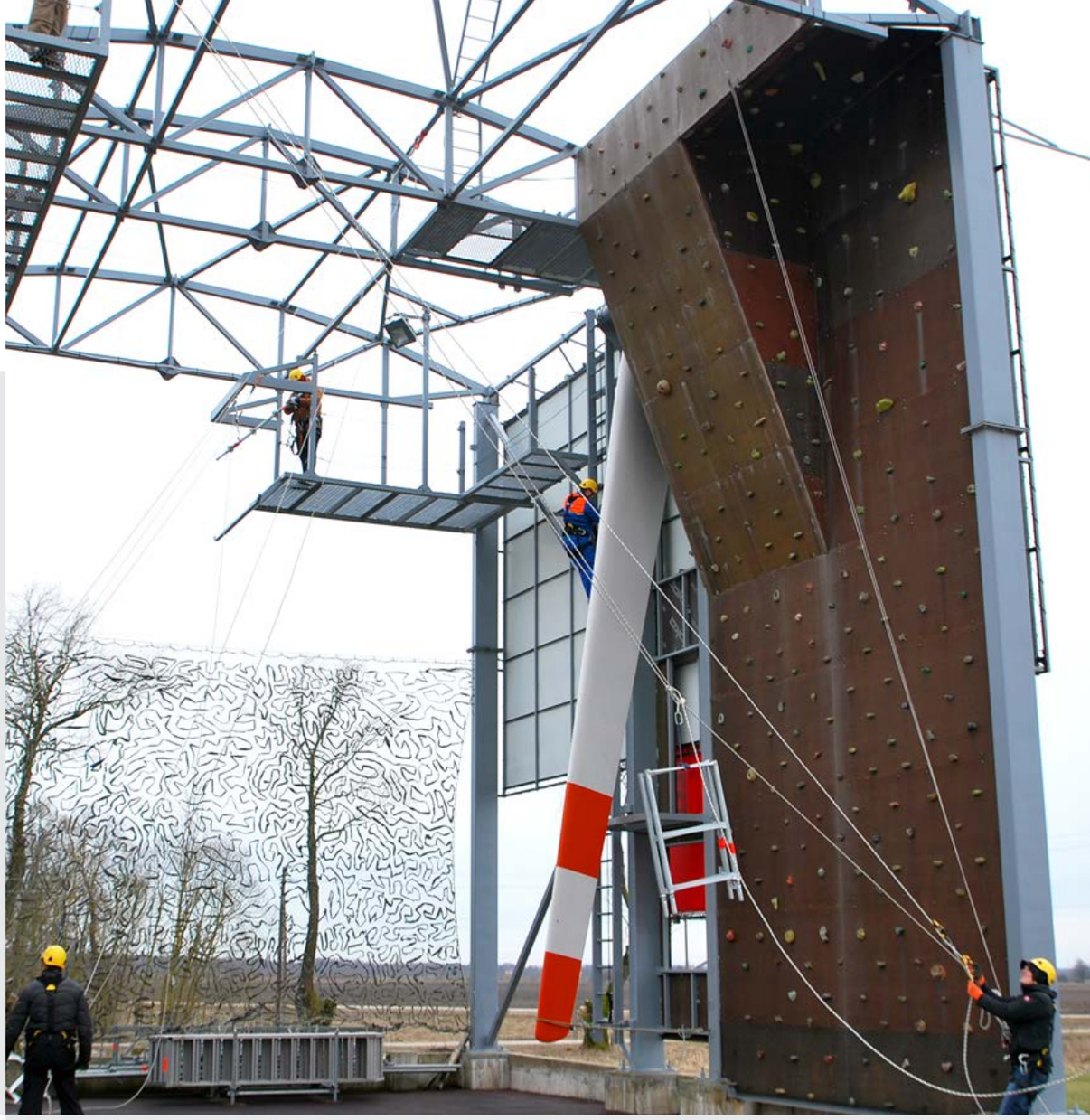
Gridin’s Group is an experienced supplier of the complete range of services for offshore Oil & Gas, Renewable and Nuclear energy, Marine, Industrial and Civil construction sectors.
In its activity Gridin's Group meets the following ISO standards:
ISO 9001:2008,
ISO 14001:2004,
BS OHSAS 18001:2007,
which represents the integrated management system. The main goal is to adhere to certain standards related to quality, HSE, and work performance.

Other certificates:
GWO
IRATA
VCA
ISO-IEC 17025:2005
DNV-GL
ACHILLES JQS

INTERNATIONAL TRAINING CENTER

Our International Training Center (ITC) offers more than 30 formal and informal training programs. Some of them are:

- Training of wind power plant personnel according to GWO standards;
- Training of rope access specialists according to IRATA standards;
- Wind power plant blade inspection and repair;
- Training of banksman and slinger; rigger according to OPITO standards;
- Mobile communication antenna maintenance and installation specialists;
- Training of: scaffolders, specialists according to VCA standards, electrical equipment specialists, sandblasters, painters, metallic construction welders, pipe welders, pipefitters.







In 2006, the company launched a private educational center. Over time educational center acquired the status of an **International Training Center (ITC)** and bcame an in-demand center offering a wide range of training programs for either new or already experienced professionals wishing to obtain a new specialty or improve qualification.

In 2013, an area for training specialists for performing complex maintenance of wind farms was launched on the ITC base.

TRAINING ACCORDING TO GWO STANDARDS

The aim of GWO is to ensure safe work environment in the wind turbine industry. Training according to these standards guarantees a common, industry-wide practice, reducing any safety and health issues for the personnel working on onshore/offshore sites.





Gridins' Group International Training Center (ITC) is ofering LRQA approved training according to GWO standards. The following modules are organized in ITC in Klaipeda, Lithuania.

GWO modules:

- GWO Working at Height;
- GWO First Aid;
- GWO Manual Handling;
- GWO Fire Awareness.





COMPULSORY ADDITIONAL TRAINING

Before directly proceeding to work on a wind turbine generator, all wind farm maintenance specialists of **Gridin's Group** must undergo additional health protection and safety training in compliance with the requirements of wind farm owners or operating companies.









The training program includes the following courses:

- Introduction to wind turbine design;
- Additional instructing to avoid accidents during the work;
- Explanation of safety signs;
- Attachment points of equipment preventing falls from height, introduction to the devices;
- Causes of fire and evacuation methods;
- Interaction and rules of conduct for operating personnel;
- Methods and procedure for alerting rescue services;
- First aid treatment;
- Methods of moving around on the ladders and in the openings inside wind turbines. Accessing the gondola of wind turbines;
- Working with an elevator and evacuation plan in case of its failure;
- Evacuation of an injured person inside wind turbines.

INSPECTION OF ELECTRIC EQUIPMENT

Apart from the main speciality, the electric technology personnel of **Gridin's Group** is trained to perform works by rope access method, which enables them to inspect and maintain the entire electrical part of the wind farm in the shortest time possible.





Inspection works performed:

- Diagnostics of vibration sensors;
- Diagnostics of lightning protection system;
- Diagnostics of inverter and transformer cooling systems;
- Weather stations monitoring;
- Elevators monitoring;
- Monitoring of control and power cable routes between gondola and inverter/transformer;
- Monitoring of ventilation systems;
- Monitoring of power cable connections;
- Measuring the network parameters of the output voltage;
- Functional circuit breakers' verification;
- Installation of cable connections on bus rings.

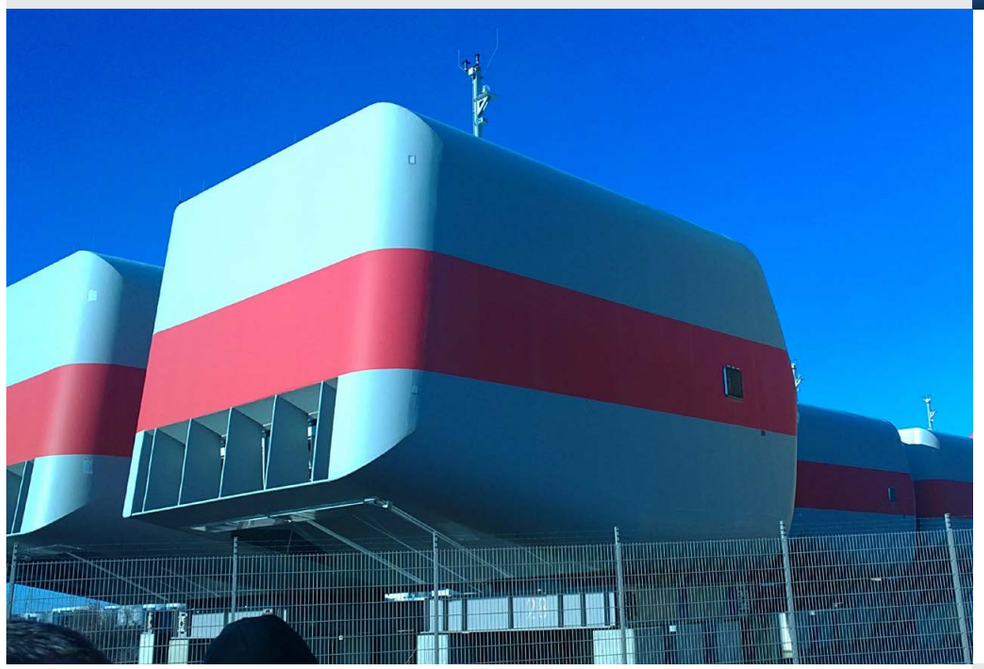
MAINTENANCE OF ELECTRIC EQUIPMENT

Performing maintenance/adjustment of:

- Main bearings' sensors;
- Diagnostics and calibration of rotor rotation speed meter;
- Magnetic meter of the high speed rotor shaft;
- Replacing wear scanners;
- Installation/replacement of XY slope sensors;
- Programming smooth activation devices;







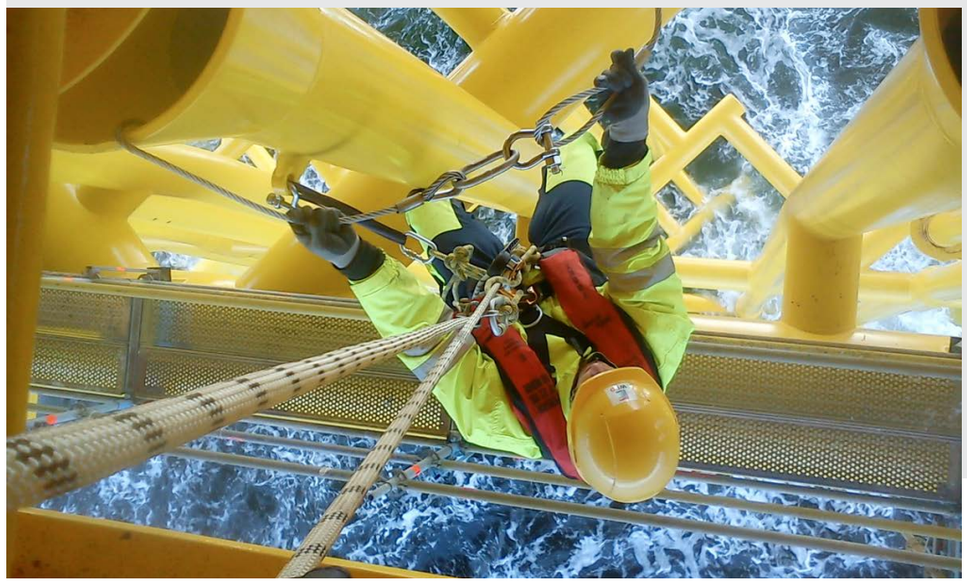
- Generators' alignment;
- Power and switch boards;
- End switches;
- GPS and navigation lighting system;
- Telephone communication;
- Lighting systems inside the tower and the hub;
- Of emergency lighting systems.

RIGGING AND ASSEMBLY WORKS

Rigging works carried out by rope access technicians include a wide range of technological operations necessary for the transfer of heavy and large-sized objects. Unlike standard loading and unloading operations, rigging works are not possible without using special devices and mechanisms intended for safe transfer of various cargo.

Operations related to assembly/disassembly of various types of nodes, mechanisms and elements of structures are carried out using rope access method. During these works, special attention is paid to complying with all necessary safety requirements.







SURFACE TREATMENT



The specialists of **Gridin's Group** have extensive experience in working with various anti-corrosion systems, used for protecting both metallic and composite surfaces.





Depending on the requirements provided by the painting specifications, the following works are performed:

- High pressure washing;
- Mechanical cleaning;
- Abrasive cleaning;
- Sandblasting;
- Painting by all types of paint and varnish materials (including sleet proof and hot-lay materials):
  - Polyurethane;
  - Epoxy;
  - Alkyd;
- Metalization;
- Paintwork with fire retardant paints.



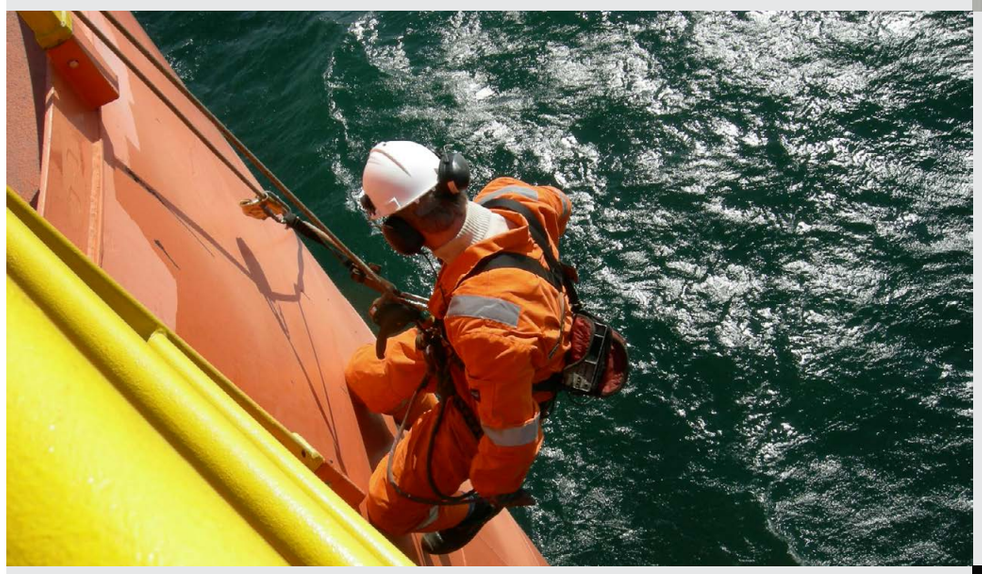


WIND GENERATOR INSPECTION



Preoperational and regular operational inspection of wind generator elements includes a complex of operations.

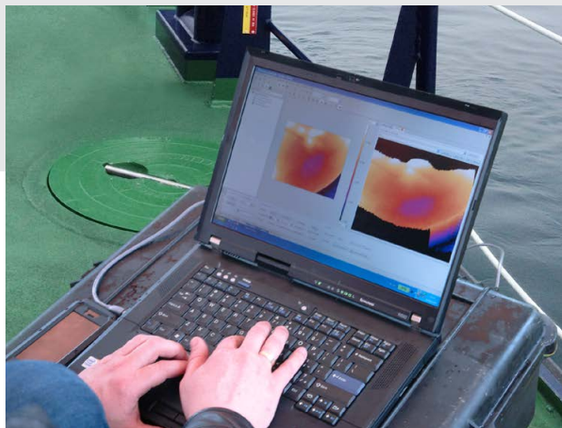
Using a system of different inspection methods and analysis ensures the earliest possible detection of any departure from the norm and different defects. This allows to avoid potential damage and shorten the idle time of the wind power turbine.



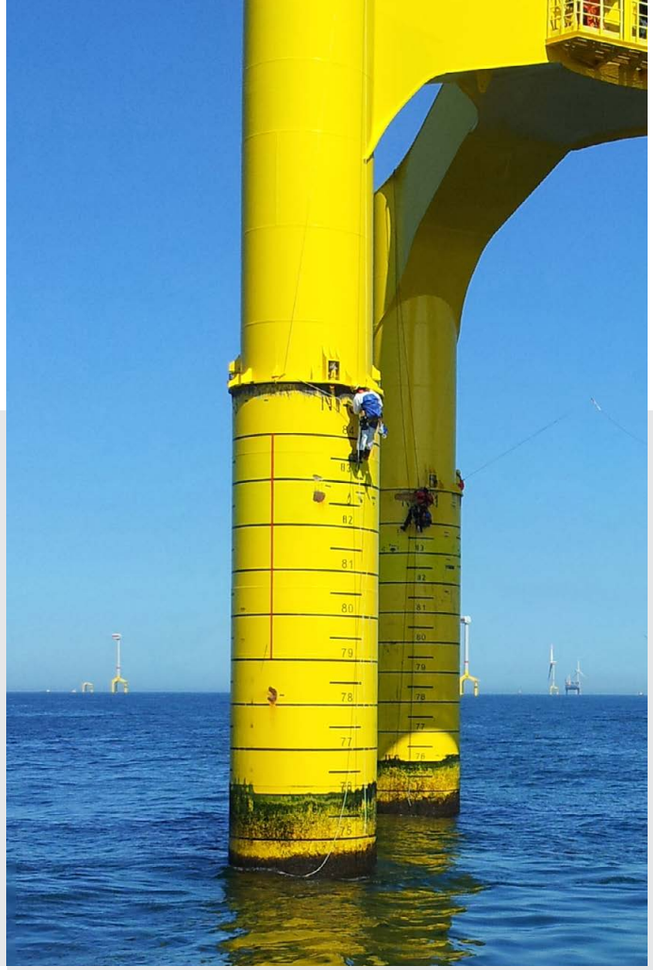
Inspection methods:

- Visual testing (VT);
- Dye penetrant testing (PT);
- Ultrasonic testing:
  - Manual UT and UTM method;
  - Automatic P-scan and T-scan method;
- Thermovision.





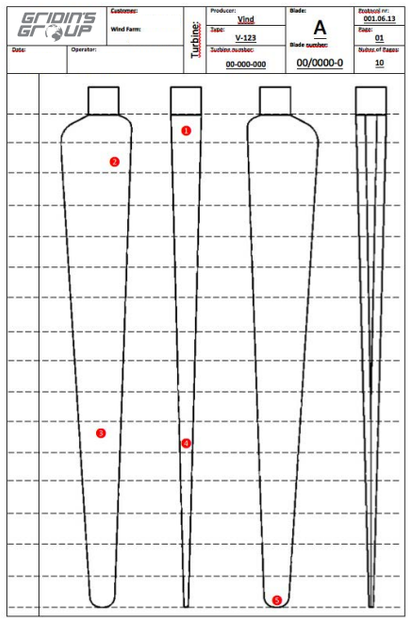
INSPECTION OF ROTOR BLADES/TOWERS





Gridin's Group provides inspection services for rotor blades and wind towers.
Our specialists have developed a technology for the application of the thermovision method for detecting defects in the structure of wind turbine blades.
Technicians compile inspection protocol depending on the scope and complexity of the object.





The report includes:

- Schematic drawing of the blade with the location of detected defects specified;
- Detailed description of individual defects with the dimensions (level) of faults specified;
- Detailed description of fault types and the nature of defects;
- Photo and video material;
- Analysis of defects and recommendations for their elimination.





REPAIR OF ROTOR BLADES/TOWERS



Gridin's Group provides repair services for rotor blades and wind towers.

By analyzing the results of the inspection report, the specialists of our company prepare recommendations and develop repair technology for the detected faults. Whilst developing repair technology, high attention is given to the kind and nature of the faults as well as the acceptability of the defects.



Blade repair is carried out by specialists who have completed special training for working with composite materials (fiberglass and epoxy resin). To accelerate the repair process as well as to achieve the maximum quality of blade repair, the UV curing system is applied.

After completing repair works on the structure, its paint coat is necessarily restored.





ROPE ACCESS

Gridin's Group Rope Access department, established in 1999, is a full member of **IRATA** (International Rope Access Trade Association).

Our company can provide specialists to perform work of any complexity, both onshore and offshore.

All technicians have permissions and International certificates for rope access work.







Our rope access technicians have various industrial professions, such as:

- steel fitter,
- welder,
- sandblaster,
- painter,
- electrician,
- fitter,
- mechanic,
- rigger,
- NDT operator and others.

PRODUCTION OF STEEL STRUCTURES

Gridin's Group offers fabrication and installation services of steel structures for the wind power industry:

- Primary steel structures - TP'S; Wind generators towers;
- Secondary steel structures for different applications.

All construction and welding specialists have extensive experience and required certificates to perform hull and welding works.

We can perform work either at our partner sites or sites of our clients.





Our specialists are experts in various welding processes, such as:

136 – semiautomatic welding using flux-cored wire and active gas;

135 – semiautomatic welding using stranded wire and active gas;

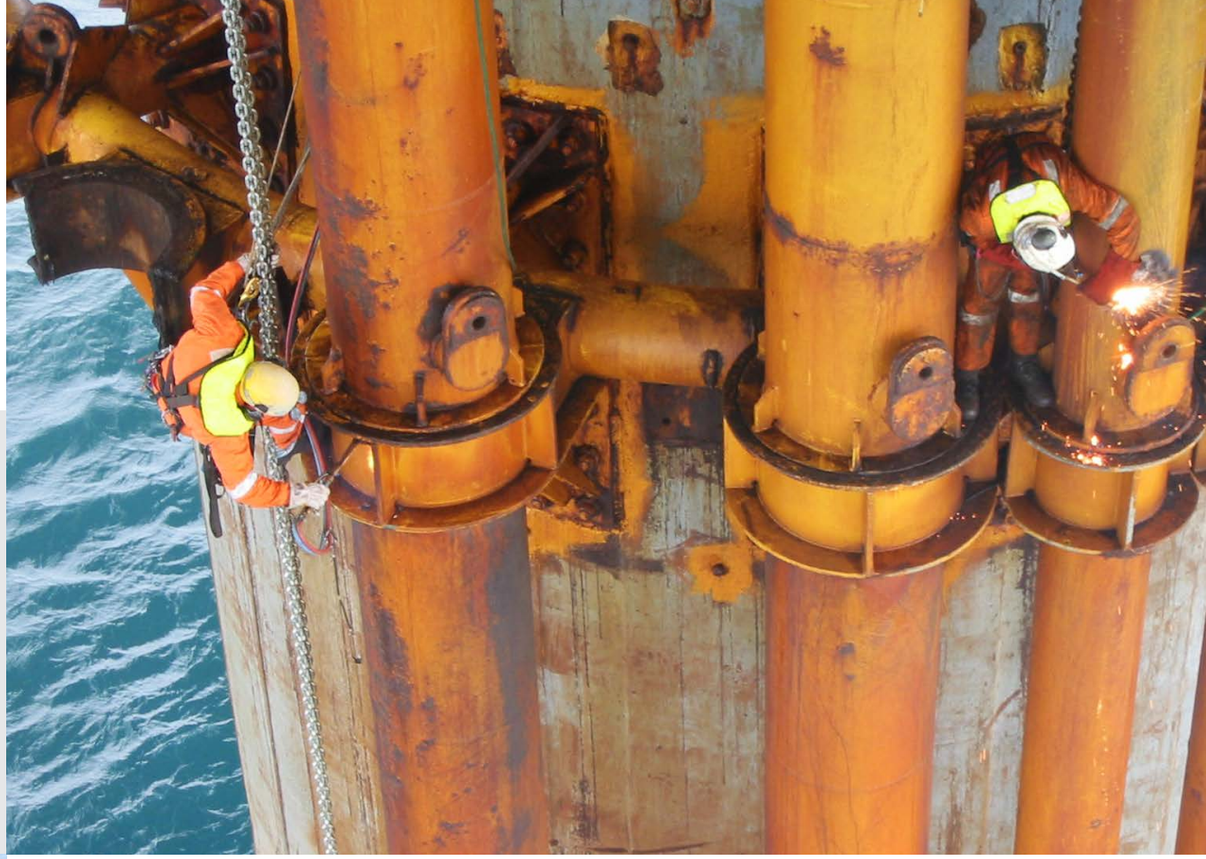
138/136 – series welding with reverse formation performed by the combined method;

111 – manual electrode arc welding;

141 – tungsten inert gas welding (argon).

REPAIR/REPLACEMENT OF STEEL STRUCTURES

Complex technical maintenance teams for wind farms must include specialists in the area of repairing wind power generators' secondary metal structures.







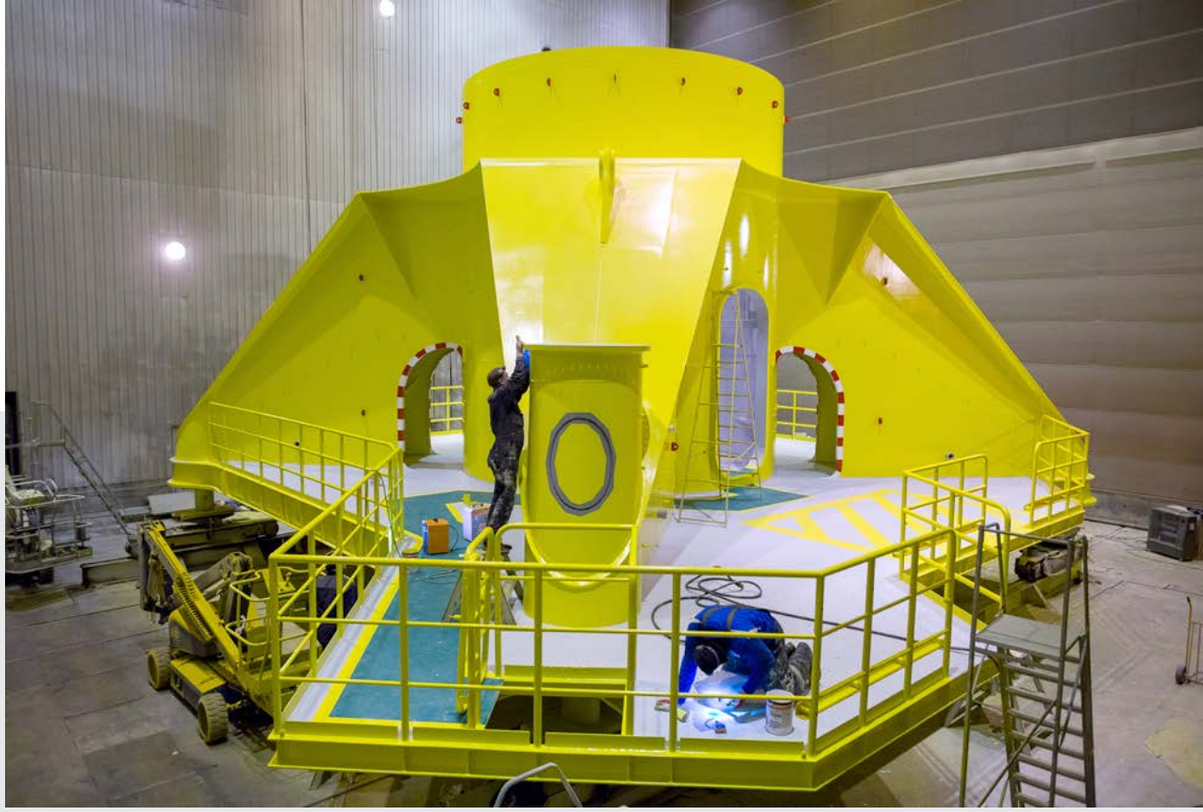
We perform various repair and replacement works. Some of them are:

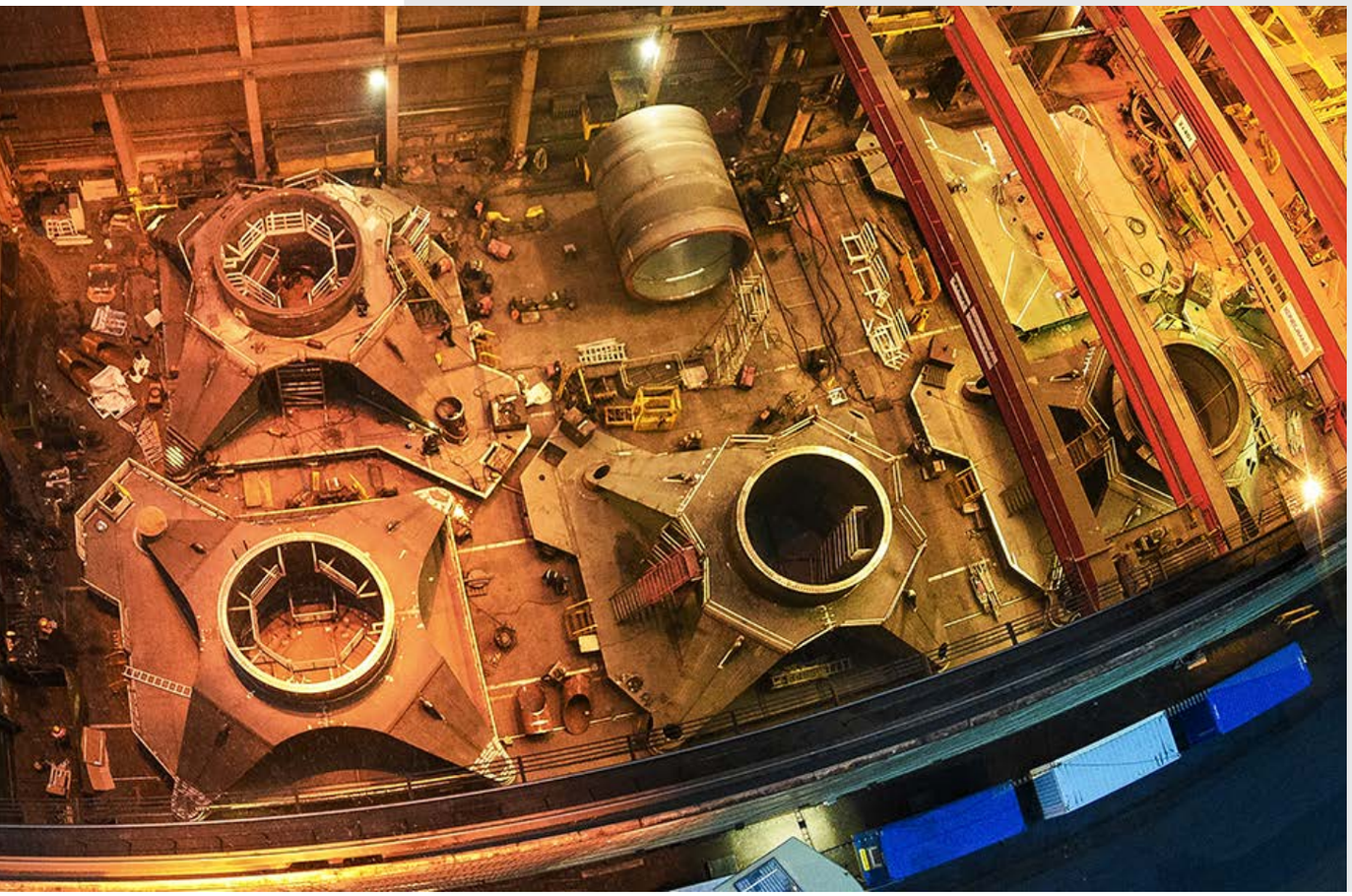
- Replacement of broken jetting pipes and deep well pumps. Positioning of jetting lines and replacement of pipe supports.
- Steel renewal of platform legs;
- Repair of lower guides, mounting bottom guides of platform legs.
- Corrosion protection of steel structures.

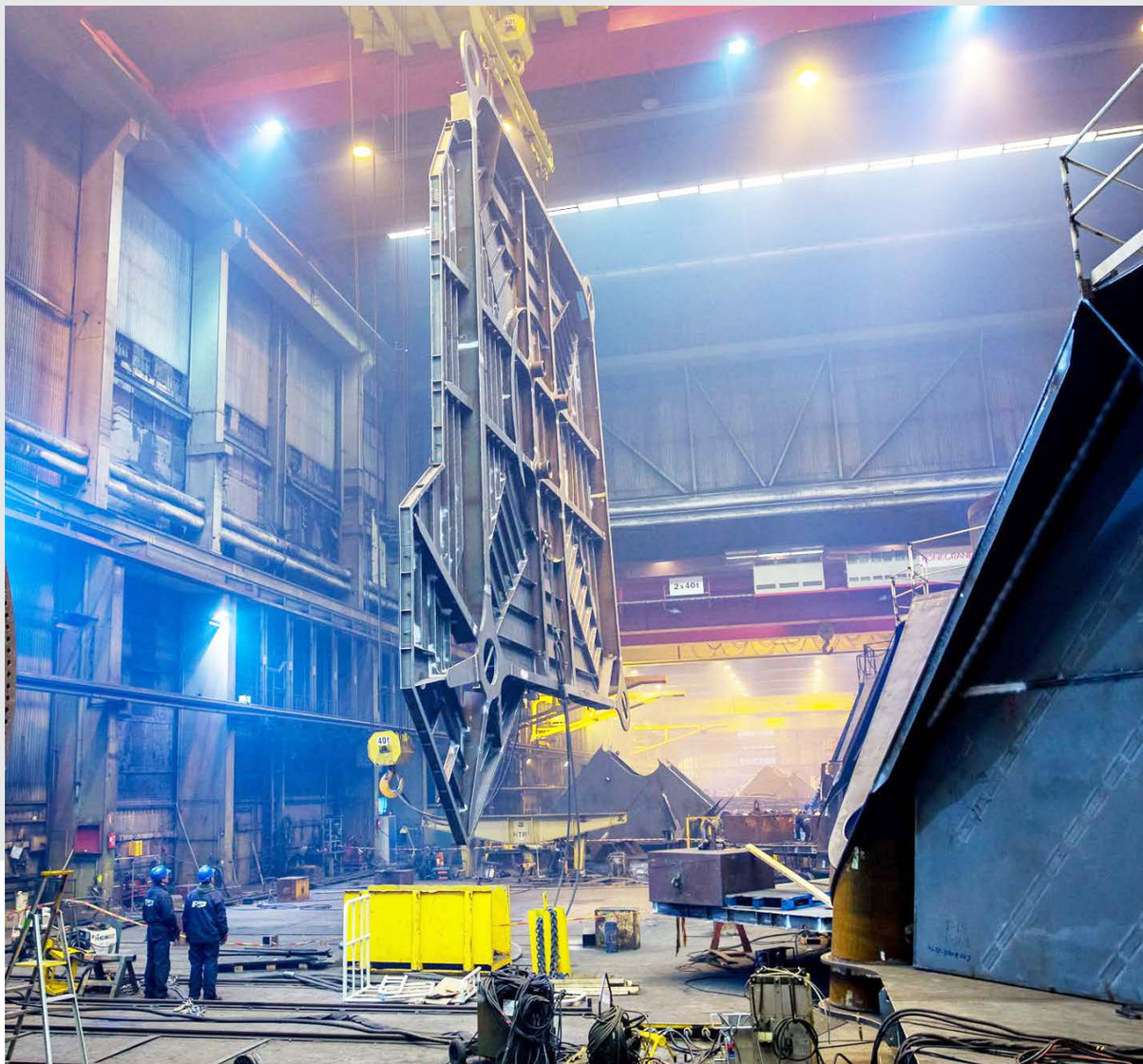
REFERENCES

BLADT Industries A/S| DK

- WIKINGER project
  Production of 41 Transition Pieces
- BEATRICE project
  Production of 30 Transition Pieces







REFERENCES

Harland & Wolff Heavy Industries Ltd. | UK

- Edvard Grieg and Martin Linge jacket clusters and buoyancy tanks (End Client - Kvaerner Verdal AS for Lundin Norway AS, Norway).
- Humber Gateway offshore wind farm substation jacket (End Client - E.ON, UK)
- Dry docking of the Blackford Dolphin mobile offshore drilling unit (MODU) (End Client Blackford Dolphin Pte Ltd)
- Offshore substation for Gwynt y Mor wind farm (End Client - Siemens)
- Met masts for Forewind Offshore wind farm (End Client - Forewind).

Ruukki Enginereeng Oy | FI

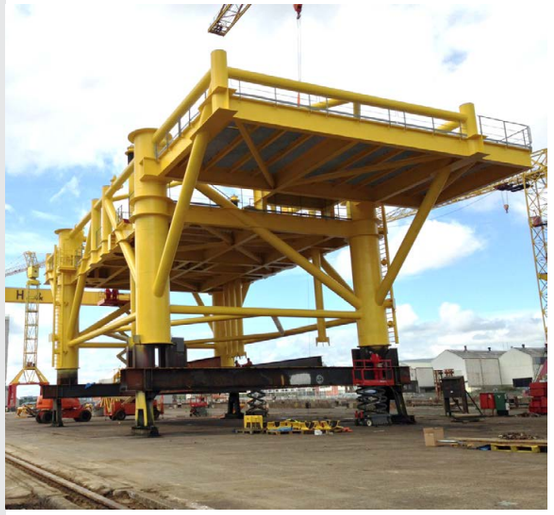
(in cooperation with our partner - Ablemans Oy)

- RWE Innogy's Nordsee Ost Offshore wind tower foundations (total of 240 of individual structures)

G&G International NV | BE

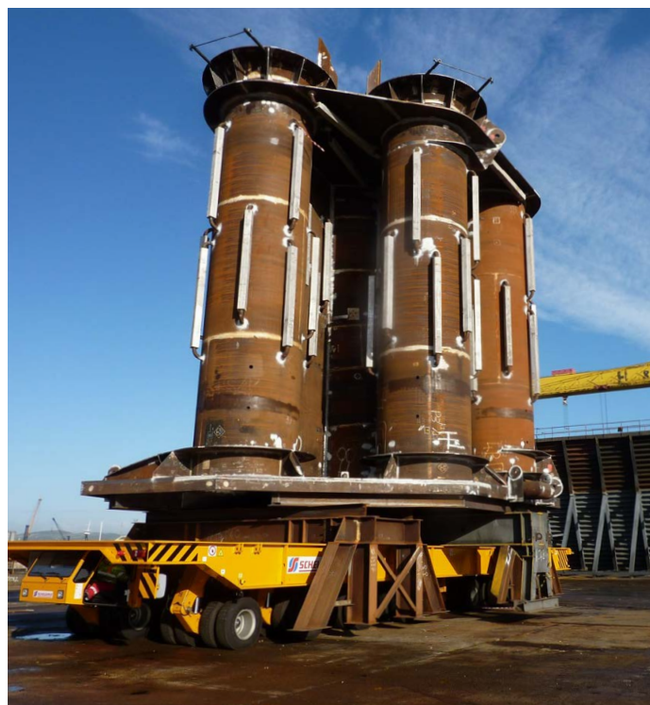
- NORTHWIND project Welding of secondary steel on 40 sets of wind generators foundation's transition pieces











REFERENCES

HEEREMA VLISSINGEN B.V. | NL
- Welding of jacket structures and components, foundations for transportation structures on the barge

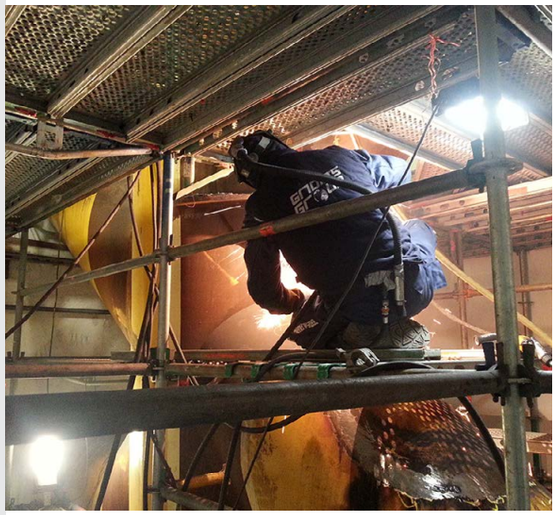
BLADT Industries A/S| DE
- OWF BUTENDIEK -
  Rectification campaign, inspection works after the TP repairs

IEMANTS NV | BE
- GODE WIND OWF project
  Repair of damaged paint areas | DE
- AMRUMBANK project
  Rope access works to install drainage system underneath the substation | DK

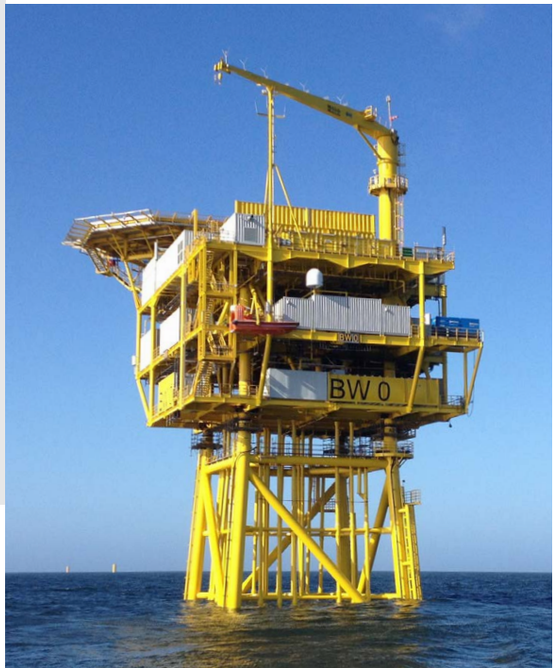
IEMANTS BV
- RACE BANK project | UK
- VEJA MATE project | DE
- BURBO BANK project | UK
  Welding works during installation of the topside onto the jacket

Trianel Windkraftwerk Borkum GmbH & Co. KG | DE
- Installation works at substation











REFERENCES

BARD Service GmbH | DE
- OWF BARD OFFSHORE 1
  Electrical and rope access works

NT Offshore | DE
- OWF NORDSEE 1
  Repair of damaged paint areas

BARD Service GmbH | DE
- OWF BARD OFFSHORE 1
  Electrical and rope access works

INDURAS | NL
- OWF PRINCESS AMALIA
  Maintenance services

HERTEL | NL
- Maintenance services at OWF

HYDRO-EKO | PL
- Inspection of wind generator blades
- Emergency repair of the damaged blade after a lightning strike







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Tomo str. 22, Klaipeda, LT-91249, Lithuania,
Phone: +370 46 311272, Fax: +370 46 314132
info@gridins.com, www.gridins.com


Achilles JQS
empowered by Achilles

Joint Qualification System

for suppliers to the Oil Industry in Norway and Denmark

Certificate of Qualification

Awarded to

GRIDIN`S GROUP LT UAB

Company Reg.no: 302561647

Achilles Id. 60665

Achilles Information Centre hereby confirms that GRIDIN'S GROUP LT UAB is qualified in the Achilles Joint Qualification System for suppliers to the Oil Industry in Norway and Denmark. The qualification concerns the product and service categories listed in the appendix.


DNV·GL

Certificate No: KLA-14-6127
NPS Folder No: 264.1-003608

APPROVAL OF SERVICE SUPPLIERS

This is to certify that

UAB Klaipėdos NK Centras

Klaipėda, Lithuania

is granted acceptance for
Non Destructive Testing (NDT) on Offshore Projects and Offshore Units/Components, classed by the Society, in accordance with Approval Programme No. 402B and IACS UR Z17, as amended.

See enclosed Appendix for further details regarding subsidiaries/agents/operators etc.

This Certificate is valid until **2017-09-01**.

Issued at **Klaipeda** on **2014-09-01**

for DNV GL

Freddy Friberg
Area Manager

Andrius Uldukis
Surveyor


Lloyd's Register LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Management System of:

Gridins Enterprise LT UAB
Danes g.15, LT-92117 Klaipeda, Lithuania

has been approved by Lloyd's Register Quality Assurance to the following Management System Standard:

Global Wind Organisation Basic Safety Training (Onshore/Offshore)

The Management System is applicable to:

Basic safety training for offshore/ onshore activities covering:
• First aid
• Manual handling
• Fire awareness
• Working at heights

Approval
Certificate No: LTQ6024290

Original Approval: 08th June 2015


Lloyd's Register LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Management System of:

UAB Gridins Group LT
Danės str. 15, LT-92117 Klaipėda
Tomo str. 22, LT-91249 Klaipėda
Strėvos str. 3, LT-93240 Klaipėda
Lithuania

has been approved by Lloyd's Register Quality Assurance to the following Quality, Environmental and Health and Safety Management System Standards:

ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007

The scope of this approval is applicable to:

Management of projects related to maintenance of offshore rigs, decommissioning/commissioning works of industrial objects and ship building.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

Approval
Certificate No: LTQ6019202

Original Approval: 20 April 2014
Current Certificate: 20 April 2014
Certificate Expiry: 19 April 2017


Lloyd's Register LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Management System of:

UAB Gridins Enterprise LT
Danės str. 15, LT-92117 Klaipėda
Kuršelių village, LT-92401 Klaipėda district
Strėvos str. 3, LT-93240 Klaipėda
Lithuania

has been approved by Lloyd's Register Quality Assurance to the following Quality, Environmental and Health and Safety Management System Standards:

ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007

The scope of this approval is applicable to:

Rope access and industrial mountaineering, related training. Maintenance and repair of wind turbines, including electrical works and repair of blades.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

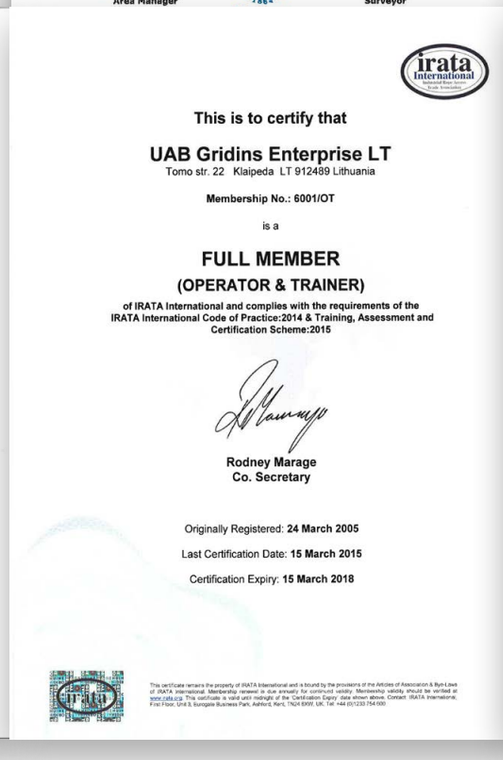
Approval
Certificate No: LTQ0002848

Original ISO 9001 Approval: 22 March 2005
Original ISO 14001 & OHSAS 18001 Approval: 14 March 2011
Current Certificate: 22 March 2017
Certificate Expiry: 14 September 2018

Issued by: Lloyd's Register EMEA Klaipėdos Filialas
For and on behalf of Lloyd's Register Quality Assurance Limited

001

Nemuno 2A, LT-91199 Klaipėda Lithuania
For and on behalf of: 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES United Kingdom


irata International

This is to certify that

UAB Gridins Enterprise LT
Tomo str. 22 Klaipeda LT 912489 Lithuania

Membership No.: 6001/OT

is a

FULL MEMBER
(OPERATOR & TRAINER)

of IRATA International and complies with the requirements of the IRATA International Code of Practice:2014 & Training, Assessment and Certification Scheme:2015

Rodney Marage
Co. Secretary

Originally Registered: **24 March 2005**

Last Certification Date: **15 March 2015**

Certification Expiry: **15 March 2018**

This certificate remains the property of IRATA International and is bound by the provisions of the Articles of Association & Bye-Laws of IRATA International. Membership renewal is due annually for continued validity. Membership validity should be verified at www.irata.org. This certificate is valid until midnight of the 'Certification Expiry' date shown above. Contact: IRATA International, First Floor, Unit 5, Bonnyton Business Park, Ashford, Kent, TN24 8XW, UK. Tel: +44 (0)1233 754 000


CERTIFICATE

VCA*/SCC* - Version 2008/5.1
Safety Management System

VINÇOTTE nv
Jan Olieslagerslaan 35, 1800 Vilvoorde, Belgium

This is to certify that ***UAB Gridins Enterprise LT***

located at ***Tomo str. 20 LT91249 Klaipeda Lithuania***

has established (under NACE-code : 42 - nacebel 2008) and is maintaining a Safety Management System which is in accordance with the requirements of VCA*/SCC* - version 2008/5.1 for :

Maintenance work at height with rope access and industrial mountaineering

This certificate is based on the result of a safety audit documented in the audit report number **REP-R-17-005/VCA1**.

Certificate number: **14 SMS 2198a**
First issued: **17 March 2014**
Valid from **24 April 2017** to **16 March 2020**

This certificate is granted during the Certification Commission of 24 April 2017 and is subject to the General Regulations on VCA/SCC Certification of both VINÇOTTE nv and the Central Committee of Experts SCC.

VINÇOTTE

Signed for the certification body:

Bart Janssens
Chairman Certification Committee

VCA BELAC 016-QMS


REPUBLIC OF LITHUANIA
NATIONAL ACCREDITATION BUREAU
UNDER THE MINISTRY OF ECONOMY

National Accreditation Bureau under the Ministry of Economy is a signatory of the Multilateral Agreements of the European co-operation for Accreditation (EA) for calibration, testing, inspection, certification of products, persons and management systems

ACCREDITATION CERTIFICATE

Nr. **LA.01.090** Valid until 21/7/2018

The National Accreditation Bureau under the Ministry of Economy hereby certifies that

Testing Laboratory of Joint-Stock Company Klaipėdos NK Centras

Taikos pr. 24a/314, LT – 91222 Klaipėda

complies with the requirements of LST EN ISO/IEC 17025:2005

and is accredited to carry out the tests of

ultrasonic thickness measurements of metallic and non-metallic materials; ultrasonic, penetrant and magnetic particles testing of welding seams, welded joints; ultrasonic testing of industrial products where ultrasound can be transmitted

The scope of accreditation is listed in the Annex

The first Accreditation Certificate was issued 22/7/2008

Director **Jurgis Šarmavičius**

22/7/2013, Vilnius

Gridin's Group certificates

ISO 9001
ISO 14001
ISO 18001