

A close-up photograph of a metal threaded rod and nut assembly. The rod is silver-colored and has a fine thread. It is inserted into a nut, which is also silver-colored. The background is dark and out of focus.

Continuous development: Occupational safety measures

page 2

Working with the right attitude!

page 4

Continuous development



Above: Samuli Kuusisto, Ari Mäkelä, Juha Myntti, Jouni Kilkanen and Jussi Leppäkangas. In the background the Aicon TubeInspect measuring device with which turnaround times are significantly shortened.



OHSAS 18001 is an international occupational health and safety management system specification. It comprises two parts; 18001 defines the health and safety program requirements and 18002 offers guidance on how to apply the requirements. It is intended to help organizations to recognize and analyze occupational health and safety risks and assist them to control those. OHSAS 18001 and OHSAS 18002 were developed by a selection of leading trade, international standards and certification bodies.

Kilkanen Oy is a company specialized in comprehensive machining. The products are manufactured individually according to the desires and plans submitted by the customer. The company has a wide range of machinery available, e.g. a CNC double column machining centers. Kilkanen employs 25 people and the premises are located in the Vikby industrial area in Mustasaari.

Uwira Oy specializes in products and components produced by welding. The main products are welded piping and pressure vessels. The applied welding systems are MAG, MIG, TIG and submerged arc welding, and machines include a welding robot and orbital welding machinery. Uwira employs 60 people and the premises are located in the Suvilahti industrial area in Vaasa.

Development: Occupational safety measures

At Uwira and Kilkanen enormous effort is put into the development of occupational safety measures. The goal of these occupational health and safety measures is to care for the well-being of the employees and to preserve their working ability as well as to prevent accidents at work and occupational diseases. The companies regard organizational development as a way to constantly improve on issues. Thus, investing in occupational safety measures is a natural continuum of the development. "The focal points change, but continuous organizational development is a matter of course to us," say managing directors Samuli Kuusisto at Uwira and Jouni Kilkanen at Kilkanen.

"Occupational health and safety is now the number one priority within the internal development program," Kilkanen and Kuusisto emphasize. Future actions include e.g. training courses, drawing up lists of shortcomings, and performing a risk assessment and making improvements accordingly. "At Uwira we will apply the OHSAS 18001 standard system specification this autumn", Kuusisto says. "The risk assessments and the actions to manage these are part of this process."

Investing in occupational safety measures benefits the company in many ways. The main issue, apart from occupational safety, is that this systematic development enhances the comprehensive organizational well-being and adds to the team spirit. "Safety and job satisfaction - both are important to us," Kuusisto sums up.

The measures are developed together with the employees. Occupational safety related issues are most obvious and quickly noticed within practical work environments. Kuusisto

wants to stress the importance of the employees being active on their own behalf. "It is really important that communication is working and that we are up to date on issues that need to be addressed," he points out. "We take shortcomings seriously and do our best to solve issues that surface," he assures. The employees have also noticed the company's positive attitude towards improvement. The chief steward Ari Mäkelä says he is satisfied that issues regarding workplace safety are taken seriously within the company. "After all, we are developing these issues together and all employees share the responsibility for the matter." The goal at Uwira and Kilkanen is that occupational safety measures become an even more natural part of the daily work routine. "Occupational safety is a special priority at the moment, but continuous improvement in this area is the most important thing," Kuusisto says. Mika Jaskari and Juha Myntti who act as health and safety representatives at Uwira agree with this: "Things are improving continuously," they conclude.

Kilkanen safety representative Jussi Leppäkangas regards training as an important part of the workplace safety measures. He gives thanks to his employers for the active training program including, for instance, occupational safety and first aid courses at VAKK this autumn. "After the courses, in addition to learning new things and skills, everybody seems fired up to develop and improve on these matters," he says of the benefits of the program. The importance of communication as a means of getting issues addressed is also emphasized by Jouni Kilkanen: "Of course we hold official meetings on the subject, but the best way to achieve improvements is to address issues together and to speak openly."

” It is really important that the communication works. We want to be up to date on issues that need to be addressed.”

Uwira Oy
Vasaratie 15 tel. 06 315 7600
65350 Vaasa fax 06 315 7601

Kilkanen Oy
Vikbyn teollisuusalue tel. 06 3444 770
65520 Helsingby fax 06 3444 771

Working with the right attitude!

The partnership between ABB and Uwira-Kilkanen began around three years ago. ABB was looking for a partner for the machining of complex transformer parts and Kilkanen had the special know-how needed for the development work.

“Kilkanen impressed us with their competence and willingness to commit to a long-term and extremely demanding development project,” says ABB project manager Kim Missing.

The target of the ongoing project is to develop a suitable machined product for the ABB subsea transformers. “The development has been a challenging process, but now we are at a stage where we can say that we have accomplished a finished product,” Kim Missing sums up the results of the collaboration. The transformer that is currently being developed will be stationed in the ocean at a depth of 3 kilometers below sea level and this presents immense challenges for the product and its components. The raw material used in the product must withstand extremely difficult conditions. The quality of the product and its components is particularly important, as the costs for unplanned repair and service measures can easily become very high. In addition to Kilkanen, Uwira has also taken part in the project. “The know-how of both Kilkanen and Uwira have been utilized in this project, as Uwira has

supplied suitable pipes for the transformers that are being developed,” Missing explains.

At Kilkanen, the project has been received enthusiastically from the start. “I believe that a positive attitude and the willingness to commit to a long-term partnership were important factors for ABB when they were looking for a business partner,” Jouni Kilkanen says. Kim Missing shares his vision. “The high level of expertise and the desire to find solutions for complex problems are definitely Uwira and Kilkanen’s strengths,” Kim Missing sums up. The company has high hopes for the time to come and developing new solutions is first and foremost an investment in the future.

“The high level of expertise and the desire to find solutions for complex problems are definitely Uwira and Kilkanen’s strengths.”

Developing a new product also demands a lot from the employees. According to Juhani Loukonen, a machinist at Kilkanen, the project has brought variation and excitement to his regular job. “The large size of the components as well as the demanding material makes machining more difficult than usual,” he summarizes the challenges of the project.

Both parts agree that the co-operation between the companies has run very smoothly. “The work approach of the ABB designers has made teamwork very easy. The machining aspect has been taken into consideration at the early planning stages, significantly cutting down on excessive work,” Jouni Kilkanen says. The people at Kilkanen are ready to put even more effort into the partnership, a fact that is valued very highly at ABB as well. “At Uwira and Kilkanen challenges are received as opportunities. When developing and manufacturing such complex components it is vitally important to find a competent and development-friendly partner,” Kim Missing sums up.



Jussi Ylinen is the sales director at Leinolot Group.

Uwira and Kilkanen part of Leinolot Group

Jussi Ylinen is the sales director at Leinolot Group. His tasks include coordinating and managing all sales activities. “The goal is to constantly increase the size of the supplying contracts while utilizing all the know-how of the companies in the Group,” explains Ylinen. “Most customers appreciate business partners that can supply extensive contracts.”

Ylinen sees Uwira and Kilkanen’s position as clear within the Group: “The functions of Uwira and Kilkanen com-

plement each other and their know-how is an advantage to all the companies within the Leinolot Group. Uwira and Kilkanen are well-kept and well-managed companies, so there is an excellent basis for an even tighter partnership.”

One aspect of Ylinen’s job is to map potential customers and to start up new customer relations. Within this role he functions as a representative for e.g. Uwira in an export business ring that maps new possibilities for companies in the Nordic countries.



Kim Missing at ABB and Jouni Kilkanen at Kilkanen Oy are satisfied with the components the companies created together. The components are made of corrosion resistant special material SMO.



The ABB subsea transformer is a complex special product, and Kilkanen has actively taken part in the demanding development process.



Aiming for international

A growing number of Uwira and Kilkanen's projects are of an international scale. The companies' clientele is becoming more international, and working in a multicultural environment has become part of the daily work routine. "At present, we have numerous international projects going on, for instance the Westenergy and Bit Viking projects," production manager Otto Lammi says. Within the next few years the companies will strive to direct their business even more vigorously towards e.g. the Nordic countries and Middle-Europe, where comprehensive contracts are in demand.

Uwira supplies power plant summer cooler



Paavo Saunamäki, the quality manager at Uwira

Uwira is supplying a summer cooler for the Westenergy Waste to Energy power plant that is being built in Stormossen, Mustasaari. Uwira's quality manager Paavo Saunamäki is the project manager for the summer cooler project. He describes the comprehensive Westenergy project as a massive operation. The main contractor of the comprehensive project is Swiss company Hitachi Zosen Inova.

Uwira's total contract includes the supply and installation of the components as well as the contracting of all steel constructions. Uwira has total responsibility for managing the summer cooler project. "We use many subcontractors in the project and a big part

of the time is spent on project management," Saunamäki says. This demanding project requires versatile expertise and professionalism. "Preparations play an important role in ensuring product quality. Also, the welders and mechanics are required to do an extremely precise job. Project managing and keeping schedules are the key to ensuring a successful project," Saunamäki sums up. In addition to Paavo

Saunamäki two other Uwira employees, Mika Jaskari and Jonas Alexandersson, work at the site. They co-operate together with several other contractors. "On this particular site the quality and control thereof are definitely emphasized," the colleagues agree. The workers on site represent numerous different nationalities. The different work cultures and the use of foreign languages make working with this project interesting and variable. The Westenergy Waste to Energy power plant will be operational in 2012.

” The project management is Uwira's responsibility.”



ality

Taking part in the Bit Viking conversion

The “Bit Viking” is a tanker owned by a Swedish shipping company, and it is currently in dock at Landskrona harbor due to the conversions made on the ship. The conversions are to be performed on the ship’s tanks, piping and engines so that they are compatible with LNG (gas). After

piping regarding e.g. insulation. Prefabricated material has been manufactured at Uwira since spring 2011 and the installation work began in autumn 2011.

According to project manager Otto Lammi, production manager at Uwira, the project has been extremely

Onsite workers sometimes work in seemingly impossible conditions. “For instance the welding requires completely wind-free conditions, and to achieve it we sometimes have to use brute physical force.” The men work in two shifts. “The accommodation and other conditions are excellent, but to cope with the work both mind and body must be fit,” says Otto Lammi and sends his thanks to the staff working on the Bit Viking.

The conversions on the Bit Viking are to be completed on a rapid schedule, after which sea tests can begin. After conversion the Bit Viking will be one of the safest and most environmentally friendly 25,000-ton product tankers in the world.



Otto Lammi, production manager at Uwira

“We have two foremen on site so that challenging situations can be solved immediately.”

the conversion the Bit Viking will operate on LNG.

Uwira has a demanding role in the conversion. The comprehensive contract includes the pipe bending, machining and piping installation on site. The use of gas means there are significant special requirements for the

demanding. “During the installation process issues constantly surface, which, regardless of careful planning and simulation could not have been anticipated beforehand. We have two foremen on site so that challenging situations can be solved immediately,” Lammi explains.

Introductions

Reijo Ranta



Reijo Ranta is the production manager at Kilkanen Oy. He began working at Kilkanen 11 years ago as a CNC machinist. He has since studied alongside his work and now has a degree in IT engineering. Today his responsibilities are within production management. Handling orders,

phasing work and IT-related matters are part of his daily work routine. Reijo is particularly appreciative of his employer's supportive attitude towards his studies.

Janne Havinen



Janne Havinen works as production planner at Uwira. His tasks include e.g. managing orders and maintaining customer relations to ensure smooth production schedules. Janne has a Master's degree in Engineering and has worked at Uwira since his graduation in 2007. In addition

to his primary work functions Janne also manages various computer and IT-related tasks at Uwira.

New machinery investments:

New tube branching machine for Uwira



Uwira has invested in a new TEC-150-HD collar-branching machine by T-Drill, which has the ability to branch thick tubes with a wall thickness of over 10 millimeters. With this machine the amount of welded seams can be reduced. The branching

process is completed in one continuous work phase, and the welded seams are placed on the straight parts of the tubes. The TEC-150-HD collars most cold formable materials such as stainless steel, carbon steel, copper, cupronickel, brass and aluminum.

Robotic lathe for Kilkanen



Among Kilkanen's newest machine investments is the robotic lathe. The automatic lathe uses machine vision for precise machining of variously shaped parts. Previously Kilkanen has mainly focused on smaller scale productions, but thanks to the lathe the product range has broadened and production efficiency has increased significantly. Most of the machinists are also going to be trained to use the 3D-CAD X5 application.

"Previously, machinists have programmed work by typing in machining programs consisting of hundreds of lines, which is a very time consuming method. With the CAD application the programming process is quicker and it cuts costs," Jouni Kilkanen explains. "Continuous training and investing in technology are the only ways to keep the Finnish workshop industry competitive."