

BEROTU group goes greener and saves energy with UV LED



“Changing to UV LED with EFSENs W-LED system with ICAD® integrated, is not just environmentally conscious, but it is also a good business for the group expecting the payback to be just around a year. We look forward to reaching this expected savings level “; says CEO of BEROTU Group Marcin Turek

Improving the quality of the products

Since the beginning, the group has focused on automation and continuously improving the quality of the products. The demand to continually improve the quality to their customer as well as to save energy has led to a fast development together with EFSENs W-LED solution with ICAD® Technology.

ICAD® will help BEROTU improve the quality even further because of the continuous control of UV as well as the very uniform output ICAD® enables in a UV-LED system. Furthermore, the W-LED transformation will help BEROTU reduce their expected energy consumption with up 3.000.000 kWh (or 3GWh) per year for the whole group on all three lines.

EFSEN has developed a UV-LED system uniquely for the flat line wood market which is called W-LED. W-LED is self-controlling the output to be uniform and to the requested level, enabling better uniform curing, less energy consumption, constant process control/documentation as well as removal of ozone and mercury. The order from Beruto group is one of the biggest for EFSEN in the latest year, but UV-LED is really attractive now with the quality and savings that is made possible.

Easy installation

“The fact that we can convert an old mercury-based line to UV LED in one shift (8-10 hours downtime), enables this upgrade to a UV-LED line to happen with barely any downtime on production, and then right away producers starts to gain the benefits “; say CEO of EFSEN UV & EB Technology Thomas Efsen.

With a vision of delivering safer and quality wise better end-user products, we help to set the agenda for future technology standard within the radiation technology UV. Our proprietary ICAD® technology is a unique development for the UV industry, which for the first time allows for continuous monitoring of UV output during production. We are proud of that we give our customers a higher level of safer process than the general UV market. ICAD® is an integrated part of our W-LED for wood curing.

Fast return on investment

- Reduces consumption with up to 3GWh per year
- Easy installation
- Uniform curing improves quality



BEROTU group consisting of Polish based BEROTU, BERO and DOLMEB is an ever-growing group of suppliers to IKEA.

Get in touch

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SC Freda decided to choose EFSEN's W-LED systems incorporating ICAD®. The W-LED is a "all in one" unit, where power supplies, PLC control and cooling air supply are all included into an "easy to maintain" housing. This saves space around the line, as no external electrical cabinets are required. W-LED is made with the user in mind. It is easy to install and use, only requiring a power and PLC connection.

The integrated cooling air blowers forward filtered cooling air to the LED modules taking care that the LED modules are not getting dirty to guarantee optimal cooling of the LED modules increasing the lifetime further. This filtered cooling is very important under the normal condition inside a wood processing plant. Exchanging the air filters of a W-LED can be done without tools, for a fast and easy filter replacement utilizing standard filter cassettes.

The W-LED comes with optional electrical height adjustment, sensors which activate the W-LED when a product arrives, safety sensors to deactivate the conveyor in case a bended part is getting stuck and customized light shields which are designed to fit onto the conveying system.

A stable, robust production method that ensures a high-quality end product that meets the requirement is the target. The W-LED, with integrated UV-LED modules, and the ICAD® measuring system provides a state-of-the-art solution which is unique in the market, providing complete UV control, all the time.



About SC "Freda"

SC "Freda" - the oldest furniture company in Lithuania. It started as a sawmill in 1880, January 25th. SC "Freda", on July 13th 1992, registered as a furniture manufacturing company. Current SC "Freda" counts its years of existence since 2001 March 2nd, when it was acquired by new owners - JSC "Baltic Furniture Group". On 2011 SC "Freda" separated from JSC "Baltic Furniture Group" and independently and successfully operates till now.

SC "Freda" manufactures flat pack furniture from chipboard, MDF (medium density fibreboard) and cellular lightweight construction panel. The main part - the living room and hallway furniture. The major part of the chest of drawers, as well as shoe boxes and the like. This furniture is made by staining pigment ink or coating decorated paper.

