Press release

**Dürr’s Oxi.X RL RTO and hot oil delivery system provide energy efficiency for Kay Automotive Graphics**

Southfield, June 6, 2023 – Dürr’s high-efficiency Oxi.X RL regenerative thermal oxidizer (RTO) and associated hot oil delivery system will be installed at Kay Automotive Graphics, an Orafol company. Kay Automotive Graphics is a leading OEM automotive supplier that produces high-quality adhesive films headquartered in Lake Orion, Michigan. The company is expanding its existing facility with two new coating lines to manufacture high-quality products for automotive and other industries. In addition to improving energy efficiency, Dürr’s technology will help Kay Automotive Graphics increase overall plant sustainability by delivering significant air pollution control benefits. The system installation will take place in late 2023.

Since 2004, Dürr headquarters in Germany has had a successful business partnership with Kay Automotive Graphics’ parent company Orafol Europe GmbH, a leading European manufacturer of self-adhesive films, adhesive tape systems, and reflective materials. The parent companies’ longstanding partnership and several successfully operating RTO systems for Orafol in Germany made US-based Dürr subsidiary a natural contender for the new project in Michigan.

The awarded turnkey project includes system engineering, design, manufacturing, installation and commissioning of the Oxi.**X** RL RTO and hot oil delivery system with interconnecting ductwork, filter houses, exhaust stacks, oil piping, pneumatics and electrical.

Kay Automotive Graphics will use Dürr’s cutting-edge air pollution control technology for their facility’s new coating lines, which will apply colors and adhesives onto films that will eventually be used in OEM automotive products as well as in other industries, including aerospace. The printing and coating process requires solvents such as toluene, heptane, and ethyl acetate, which the Oxi.**X** RL RTO will remove from the exhaust air stream. But the system benefits extend beyond efficiency and environmental compliance as Dürr has a demonstrated record of installing high-quality systems that deliver first-rate operational reliability. Therefore, Kay Automotive Graphics is investing in Dürr’s proven technology to consistently fulfill its production quota for years to come.

Dürr’s Oxi.**X** RL RTO will meet the facility’s air pollution control needs by destroying up to 98% of VOCs using thermal oxidation at a rate of 60,000 cubic meters of process exhaust per hour. The Oxi.**X** RL RTO’s heat recovery system utilizes clean exhaust air to heat the thermal oil for increased energy efficiency. Kay Automotive Graphics saves over 3,000 kilowatts on these new coating lines by significantly reducing the amount of natural gas typically required to maintain the system, particularly during high solvent load conditions.

In addition, Kay Automotive Graphics will optimize production and process flow thanks to the Oxi.**X** RL RTO’s hot oil delivery system, which will also improve overall production efficiency by serving as a supplemental heat source to dry the sheets and rolls produced in the facility.

Randall Mertz, Executive Vice President International at Orafol Group: “Our aim is to run the production of Kay Automotive Graphics as energy efficient as possible. Dürr’s state-of-the-art environmental technology and the years of experience with integration into our production infrastructure is a central building block to ensure that.”

For more information about Dürr’s Oxi.**X** RL, visit our [website](https://www.durr.com/en/products/environmental-technology/exhaust-gas-and-air-pollution-control/oxi-x-regenerative-thermal-oxidation/oxi-x-rl). For additional details about Kay Automotive Graphics visit <https://www.kayautomotive.com/>. For additional details about Orafol, visit <https://www.orafol.com/en/>.



Image 1: Efficient air pollution control with the Oxi**.X** RL Regenerative Thermal Oxidizer with a rotary valve



Image 2: 60,000 cubic meters of process exhaust per hour will be cleaned at Kay Automotive Graphics plant in Michigan with Dürr technology.



Image 3: Randall Mertz, Executive Vice President International, Orafol Group   
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**About Dürr**

The Dürr Group is one of the world's leading mechanical and plant engineering firms with extensive expertise in automation, digitalization and energy efficiency. Its products, systems and services enable highly efficient and sustainable manufacturing processes in different industries. The Dürr Group primarily supplies the automotive industry, producers of furniture and timber houses as well as the chemical, pharmaceutical, medical devices and electrical engineering sectors. It generated sales of €4.3 billion in 2022. The company has about 18,700 employees and 123 business locations in 32 countries. The Dürr Group operates in the market with the brands Dürr, Schenck and HOMAG and with five divisions:

**Paint and Final Assembly Systems:** paint shops as well as final assembly, testing and filling technology for the automotive industry, assembly and test systems for medical devices

**Application Technology:** robot technologies for the automated application of paint, sealants and adhesives

**Clean Technology Systems:** air pollution control, coating systems for battery electrodes and noise abatement systems

**Measuring and Process Systems:** balancing equipment and diagnostic technology

**Woodworking Machinery and Systems:** machinery and equipment for the woodworking industry

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