

Roxidizer[®] a Success at West-Bag, Inc.

Monterey Park, CA – West-Bag, Inc. successfully implemented use of the Tellkamp Systems, Inc. (TSI) Model 4 (4,000 CFM) *Roxidizer*[®] Regenerative Thermal Oxidation (RTO) System to destroy the emissions captured from their four-color flexographic printing



Stringent South Coast Air Quality Management District (SCAQMD) requirements forced West-Bag, Inc. to explore every printing alternative. Systems they evaluated included water-based ink, high solids solvent ink and UV curable ink systems, none of which produced the results they desired.

TSI Engineers worked diligently with West-Bag, Inc. to create a system that would control VOC emissions with low operating costs (less than \$1.00 per hour), minimal maintenance requirements (only one moving part) and be simple to operate (only three buttons to push). Presses are enclosed in a Permanent Total Enclosure (PTE) that provides for 100 percent capture of VOC emissions.

West-Bag, Inc. is now able to meet the SCAQMD challenge and was recently granted an overall removal efficiency of 98.3 percent during independent testing of the system.

West-Bag, Inc.'s VOC emissions have virtually disappeared and Luis Michel, West-Bag, Inc.'s owner is able to maintain the level of quality he requires. "Quality is all we have to sell," said Michel. "We have to maintain our quality to keep our customers satisfied," he added. Michel can grant services to his customers that his competitors, without VOC controls, are unable to offer.

"The TSI *Roxidizer*[®] RTO has been a huge marketing success for my company. With only a small capital cost, I couldn't be happier with my investment," said Michel.

New Headquarters for TSI

Tellkamp Systems, Inc.'s (TSI's) production facility is located in Santa Fe Springs, California. The new headquarters building pictured below doubles TSI's production space, allowing for quick and efficient product assembly.

The building also houses the Administrative, Engineering, Marketing, Sales and Service Departments. Additionally, TSI has a branch office located on the East Coast.



VOC Emissions Controlled at Adchem Corporation

Riverhead, NY – A leading manufacturer of adhesive tapes for industries such as electronics, business supplies, packaging, printing, window manufacturing and TV manufacturing, Adchem Corporation utilizes the TSI *Roxidizer*® to handle a wide range of solvent concentrations and process conditions.

Initially configured for 85 percent thermal efficiency, the TSI *Roxidizer*® can easily be upgraded to 95 percent thermal efficiency. The TSI *Roxidizer*® will typically operate at a 20,000 CFM capacity though it's capabilities are much higher.

A family owned and operated business, Adchem Corporation's President Joseph Pufahl chose the *Roxidizer*® Regenerative Thermal Oxidizer, as opposed to a recuperative or catalytic oxidation system, because of the regenerative thermal oxidizer's tolerance to change in process conditions and high energy efficiency.

Business Announcements

Niles, OH – Niles Manufacturing Company coats components for the automotive industry. TSI was selected to manufacture and install a conveyORIZED vertical liquid paint line and a *Roxidizer*® VOC abatement system.

Los Angeles, CA – Equilon Enterprises chose a TSI *Roxidizer*® to treat the contaminated air from a ground water remediation site. A Model 10 (10,000 CFM) will be installed to destroy the VOC's from this process.

Cincinnati, OH – Givaudan Roure Flavors manufactures food flavorings and additives. A *Roxidizer*® was installed in 1995 to control odors and VOC emissions at the facility. Due to recent increases in production, a second *Roxidizer*® was purchased to control VOC emissions from the spray drying process.

TSI Leads Structured MLM Development Effort

TSI is committed to continued innovation and improvement of their *Roxidizer*® Regenerative Thermal Oxidizer (RTO) system. Increased energy efficiency is an area where great strides have been made to provide end users with the lowest possible operating costs and highest return on their investment. TSI is leading the way with the development of multi-layered ceramic media (MLM).

The typical ceramic heat exchange media utilized in an RTO is a random packing material that is used for heat storage and heat transfer within the RTO. High static pressure drop is associated with the use of random ceramic packing material, resulting in higher electrical costs. TSI conducted extensive research on ceramic packing materials and determined that the best performing material for use in an RTO is structured MLM.

Evaluations revealed that the benefits of using structured media, as opposed to random media, include ultra low static pressure drop, reduced horsepower requirements and increased thermal efficiency.

Structured MLM technology in the *Roxidizer*® allows TSI to offer the end user a high quality, cost-effective means for solving their most complex air pollution control issues.

Service Department News to Use

- TSI's Service Department is managed by David Diaz-Infante. David can be reached at TSI's Corporate Office, extension 120.
- Got an old part that needs to be replaced? Need a spare? TSI stocks most *Roxidizer*® spare parts at their corporate facility.

Mabeza Joins TSI's Marketing Team

Karen Mabeza joined TSI as Marketing Executive Assistant. In this capacity, she is responsible for managing all marketing-related activities as well as providing support to the President, Sales, Engineering and Service Departments. Karen will play a key role in identifying and implementing marketing strategies.



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