

Reduce sorbent usage by up to 50%

INTRODUCTION

Sorb-Tec® is a lance-less injector technology that serves as a smart replacement for traditional injection lances used in dry sorbent injection (DSI) systems. The technology significantly reduces sorbent usage and sorbent-based maintenance resulting in immediate savings and a measureable ROI.

Industries Served:

- Cement
- Power
- Waste-to-Energy
- Glass
- Refineries
- Carbon Black
- Pulp & Paper
- Biomass

OUR SOLUTIONS

Externally fitted to ducts, Sorb-Tec® injectors replace each active lance and require no major modifications to existing DSI systems.

Using boosted air, they enhance sorbent mixing and dispersion within the duct, ensuring lower sorbent usage while increasing the efficiency of the pollutant/sorbent reaction.

The number of Sorb-Tec® injectors needed is dependent on the size, type, and environmental compliance requirements specific to your facility. We have supplied one Sorb-Tec® injector and we have supplied 50+ to a single client. We can help on projects, both big and small.



LANCE-LESS INJECTOR TECHNOLOGY

KEY BENEFITS

Minimize Emissions

- Minimizes pollutant levels of SO₂, SO₃, HCl and Hg, proactively preparing your system to adhere to environmental compliance requirements.

Reduce Sorbent Usage

- Reduces sorbent usage by up to 50% compared to both traditional and advanced lance-based designs, resulting in cost savings and a measurable ROI.

Maximize Performance During Load Changes

- Maximizes performance and flexibility through the use of a VFD. As operating conditions change, each individual Sorb-Tec® injector adjusts its injection distance into the flue gas duct, ensuring optimal duct saturation during load changes.

Use With All Sorbent Types

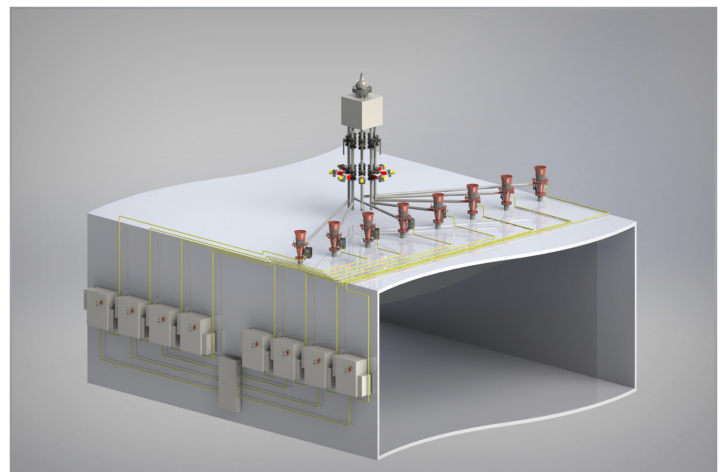
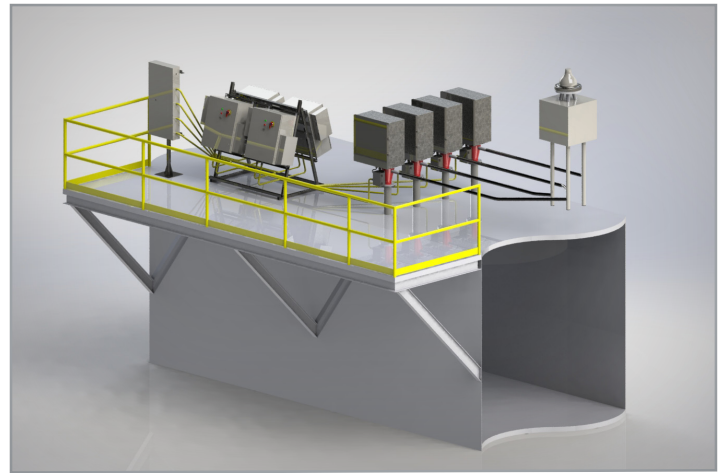
- Compatible with all main forms of dry sorbents including hydrated lime, sodium bicarbonate, trona, and activated carbon.

Decrease Plug and Maintenance Issues

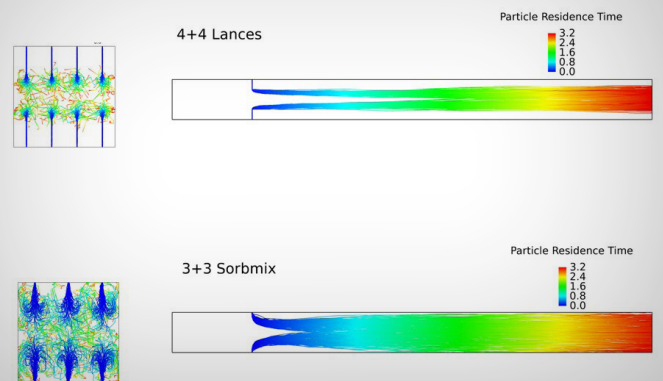
- Decreases plug and maintenance issues associated with traditional, lance-based injector technology by having the injector installed external to the duct protecting it from hot flue gas and over-spray from adjacent lances.

Perform Trial and CFD Modeling

- Performs mobile fleet demonstration or CFD modeling prior to renting or purchasing Sorb-Tec® to accurately quantify benefits in a specific application.



Traditional 4 + 4 Lances vs. Sorb-Tec Lance less Injection



ABOUT NOL-TEC

Nol-Tec is recognized as a global leader in the design and manufacture of pneumatic conveying equipment for processing dry bulk materials. We have experience handling hundreds of different products from a wide range of industries enabling us to deliver reliable and cost-effective bulk material handling solutions.

Our in-house test lab provides clients with the confidence they need to make informed decisions about their new system design, upgrade, or retrofit. For nearly four decades we have partnered with clients to bring state-of-the-art products to the marketplace. We are committed to helping you keep your business moving.

