



# Environmentally Friendly Design for Glass Industry

## **NOL-TEC GROUP:**

Your Global Source  
for complete Material Handling,  
Storage, Batching,  
Blending,  
Pollution Control,  
Ash & Dust  
Recovery/Recycle  
for the Glass Industry



Particulate and Gaseous Emissions Control  
According to MACT GUIDELINES and PM 2.5 Standard

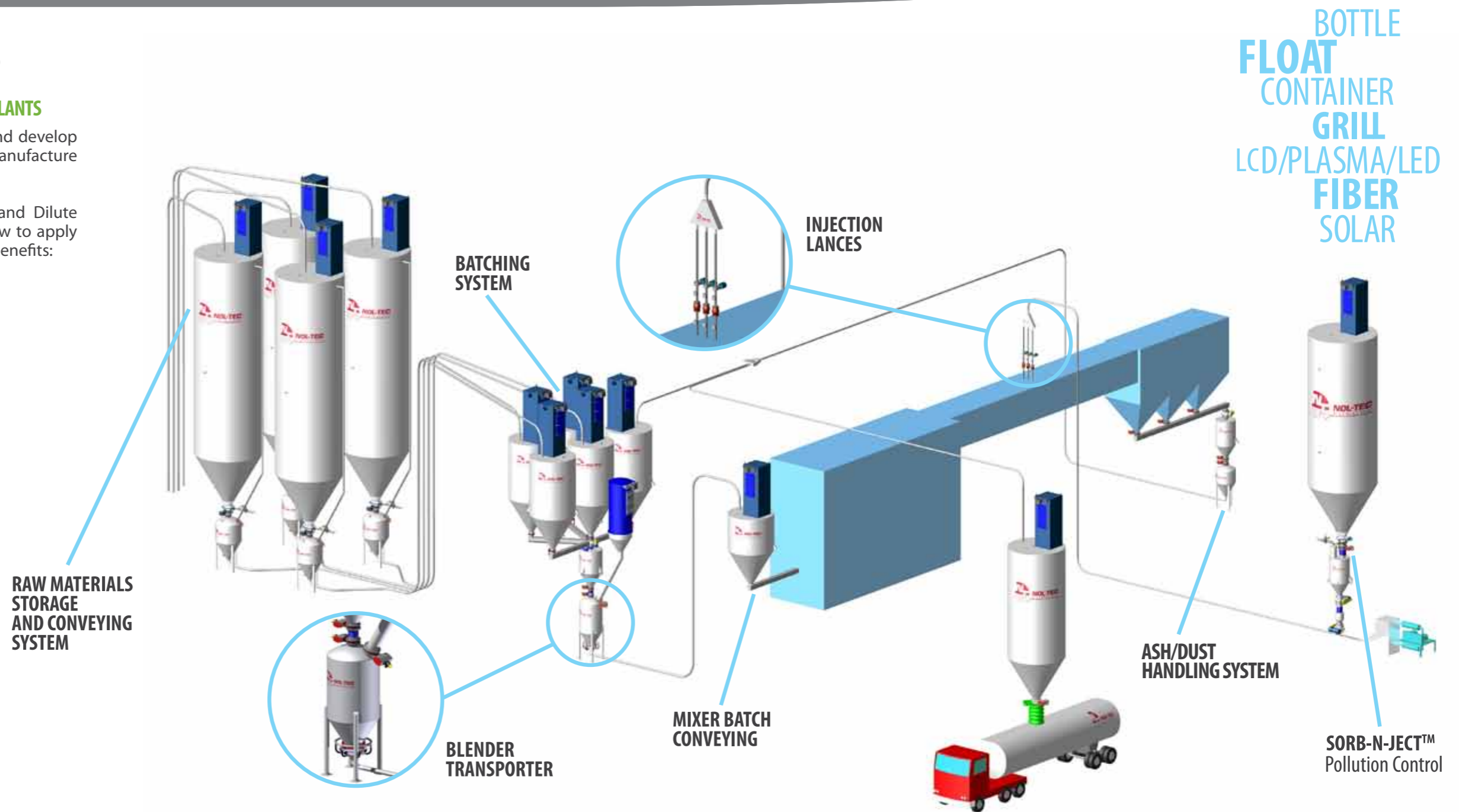
## Nol-Tec Group Capabilities

### PNEUMATIC CONVEYING BENEFITS FOR BATCH PLANTS

Nol-Tec Group continues to grow, expand and develop solutions in different fields, such as glass manufacture and green technologies.

We provide Pressure and Vacuum, Dense and Dilute Pneumatic Conveying Systems, we know how to apply the right technology with the following key benefits:

- pneumatic conveying to day bin
- dosing and mixing
- batching of the raw ingredients
- storage
- ESP dust handling and pollution mitigation
- reduction of dust emissions in the environment
- easy improvement on existing batch plant
- special glass production
- batch house building site reduction
- environmentally friendly technology
- low cost maintenance
- plant total volume and weight reduction
- expandable and flexible design



### DRY SORBENT INJECTION **SORB-N-JECT™** Technology

The SORB-N-JECT™ Technology is a new generation process for reduction of polluting emissions, such as SO<sub>2</sub> – HCl – CO<sub>2</sub> – Hg through the use of dry sorbents. Sorb-N-Ject™ users are coal-fired and waste burning plants, glassworks, kilns and cement factories.

The typically Sorbents used to mitigate the glass pollutants are:

- Hydrated Lime
- Limestone
- Trona
- Sodium Bicarbonate
- Soda Ash



### Automation, Service Control

We also develop: MES, SCADA, HMI with PLC systems, digital data transmission on Siemens, Allen Bradley, Schneider Platform, etc. Assembling supervision, start-up and service on site are assured by a team consisting of skilled technicians, ready to assist our customers with prompt and professional service, all over the world.

### Integrated Process Control:

- Automatic Batching and Weighing
- Mixing and Blending
- Pneumatic Conveying Systems
- Liquid Pumping and Metering

# Research centre

## INNOVATION IN CONSTANT DEVELOPMENT

Nol-Tec Europe has a new Research Centre where several technologies can be tested, such as:

- low pressure dense phase pneumatic conveying
- vacuum dense and dilute phase
- pneumatic blending

The Research Centre is also equipped with:

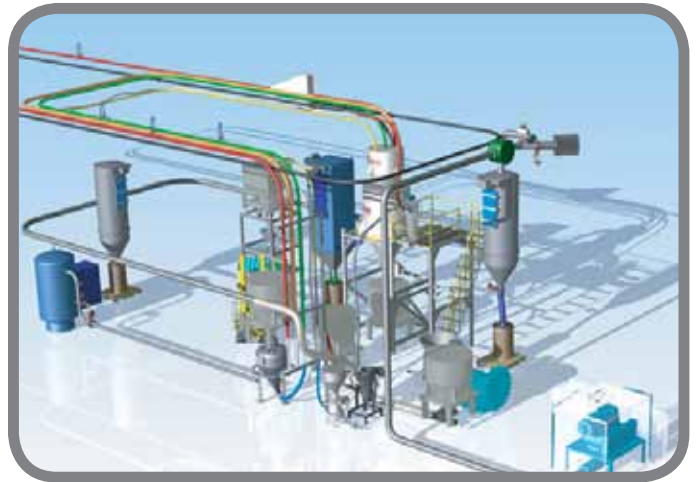
- unload and dosing of mobile container
- bulk bag unload

Nol-Tec performs tests of:

- conveyability
- degradation
- capacity
- segregation

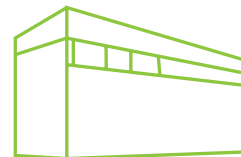
of each product, as to have no problem during the plant start-up. The customer can really check how the product acts according to the different pneumatic conveying configurations. Moreover, the test, performed by skilled technicians, gives relevant indications to how each system should be designed and operated.

Test Plant (3D view)



### TYPICALLY HANDLED MATERIALS:

- |                 |                      |
|-----------------|----------------------|
| • Alumina       | • Mixed Batch        |
| • Borax         | • Pyrolite           |
| • Boric Acid    | • Rouge              |
| • Boromagnesite | • Salt Cake          |
| • Colemanite    | • Silica             |
| • Colorants     | • Soda Ash           |
| • Cullet        | • Sodium Bicarbonate |
| • Dolomite      | • Sodium Sulfate     |
| • Feldspar      | • Ulexite            |
| • Flint         | • Various Clays      |
| • Fluorspar     | • Iron Oxide         |
| • Iron Chromite | • Wollastonite       |



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