

# SOLUTIONS FOR THE POLYMER INDUSTRIES

**Dedicated solutions for polymer production plant:  
polyethylene (HDPE, LDPE, LLDPE) polypropylene,  
specialty polymers**



**NEU-JKF Process handles powder, flake and pellet for leading polymer producers and contractors throughout the world for more than decades.**

Polymers are very easy to use and have been used in all sectors of industry and in our daily lives, such as the automotive industry and plastic bottles. However, polymers are complex materials and their range varies from standard plastics to sophisticated formulations: transparent polymer granules that release odours or resist impact.

NEU-JKF Process is active in the polymer industry and offers pneumatic conveying systems for all production capacities.



## SOLUTIONS FOR THE POLYMER INDUSTRY

Experience in all available techniques enables NEU-JKF Process to specify transfer systems, best suited to particular plant layouts and process requirements.



### TECHNIQUES AND EQUIPMENT

- **All types of transfer systems:** from dilute phase to low velocity dense phase, suction or blowing lines, dune phase....
- **Closed loop air or inert gas pressurized system**, the most economical and safest method of transferring potentially hazardous or sensitive materials. The inert gas is not exhausted to atmosphere but re-utilized via filtration equipment.
- **Internal treatment** of pipes to prevent angle hair generation preserving product and minimizing wear damage.
- **Pellet cleaning systems** to eliminate fines production, ensuring highly efficient removal of dust, fines and fibrous inclusions for product quality
- **Homogenization**, degassing and silo conditioning, control of temperature and humidity of stored products
- **Storage** of product in silos, loading and discharge of truck, rail car and sea bulk containers
- **Efficient and cost-effective air control** stations for stability of plug flow conveyors for all transfer modes
- **Full range of air/gas filters:** effective fines removal on closed loop systems, high temperature gas filtration, and no cross-contamination.
- **Proven process components:** rotary valves, diverter valves. Standard configuration or special features like heat tracing, thermal insulation for example. Compact unit combining continuous operation and product conservation. Tested in-house before site delivery.

### MAJOR ADVANTAGES

- **Tight installation:** product and environment preservation, reduction of fines production
- **Low wear**, less maintenance, low power consumption
- Compliance with local and international regulations

### EXAMPLE OF TRANSFER

#### In dilute phase

- 150 t/hr of HDPE pellets
- 100 t/hr of LLDPE/HDPE pellets

#### In dense phase

- 55 t/hr and 70 t/hr of PP pellets
- 60 t/hr of LLDPE pellets