



HANDLING

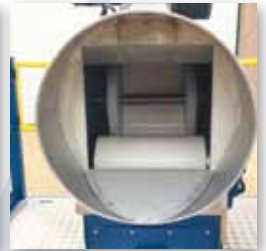
A RANGE OF SOLUTIONS TO MEET ALL NEEDS

A number of situations encountered in the bulk industry require the use of specific handling techniques. Thanks to our 125 years experience in the field, we have developed very varied equipment dedicated to each of our clients' needs.



FIELDS OF APPLICATION

- Environment and recycling
- Fuels
- Minerals, fertiliser, mineralogical chemistry
- Food, pharmacy, fine chemistry
- Metals



ANALYSIS OF YOUR NEEDS AND SPECIFICITIES

To supply you with the optimum handling system, we take into account your requirements as well as several factors like:

- the setting up of your project
- the product characteristics: quantity, quality, nature...
- the aim of the handling: extraction, conveying, dosage...



A TECHNIQUE FOR EACH NEED

MATERIAL	LENGTH OF CONVEYING (M)				
	Extraction	0	10	20	> 20
DRY			LCP belt thrower		
			Pressure conveying		
	Rotating feeder				
	Bucket elevator				
DRY OR HUMID	chain conveyor				
	Screw conveyor				
	Belt conveyor				
	HUMID	Scraped rotating valve			
Silo discharge scraper					



LESSINE
TAILORED BULK TECHNOLOGIES

LESSINE BENEFITS

TAILOR-MADE SOLUTIONS:

- ACCORDING TO THE SPECIFICITIES OF YOUR PROJECT: TECHNOLOGY, DIMENSIONS, INVESTMENT, COST, CONSTRUCTION...
- ACCORDING TO ON YOUR NEED: TRANSPORT, AUTOMATION, INSTALLATION, COMMISSIONING, SPARE PARTS...
- FROM THE CONCEPTION STAGE > R&D, DEVELOPMENT, TEST AND FEASIBILITY.



EXTRACTION

- **Scraped rotating valve: for products that flow very badly**

This system allows a volumetric distribution of products that flow badly in a process. It seals perfectly the upstream from the downstream processes.

- **Rotating feeder: ensured air sealing upstream-downstream**

For intensive industrial use, the rotating feeder offers a sealing device in a process line. It involves an alveolar rotor turning in a stator, with a limited gap between the two elements.

- **Silo discharge scraper: Extraction of humid products**

In a silo (rectangular or round), a cleverly shaped frame cuts out a layer of product and takes it towards one or several screw conveyors. The hydraulic cylinder with limit switches ensures a regular back-and-forth motion of the scraper.



CONVEYING

- **LCP belt thrower: container loader**

Thanks to its loading system, a belt turning at a great speed that projects the product, the LCP ensures optimum loading (min. 95 % of the volume) of bulk products inside an ISO container with liner in a record time and using a minimum amount of resources.

- **Pressure conveying: compact, clean and easy to install**

With μ management for a regular conveying and optimisation of the air consumption.

- **Bucket elevator: significant conveying flow**

Thanks to an optimum filling of the buckets, the elevator can achieve significant conveying flow. The emptying of the buckets is carefully studied for difficult products.



CONVEYING WITH EXTRACTION

- **Belt conveyor: great transport capacity**

The belt conveyor (the belts come in several configurations) allows a very careful handling of humid, dry and abrasive products, as well as horizontal and angled conveying up to vertical (type rimmed conveyor).

- **The chain conveyor: conveying over significant distances**

The product is taken away by one or several chains equipped with scrapers in sealed crates. The equipment can be angled up to vertical. The number of filling and emptying points is configured depending on the application.

- **Screw conveyor: conveying and dosage of the material**

This conveyor allows a horizontal handling as well as an angling up to vertical. It consists of a spiral of Archimedes moving the product forward inside a closed sealed trough.



MILLING



MIXING



DRYING



SEPARATION



HANDLING