



*www.mixitaly.com*

## *Mixing systems and components for plants*

*Mixing  
Filtering  
Valves  
Monitoring  
Extraction  
Conveying*



**MIXING & EQUIPOS**  
SOLUCIONES INDUSTRIALES

**MIXING & EQUIPOS S.A.S.**

Calle 35 B sur 72L 61

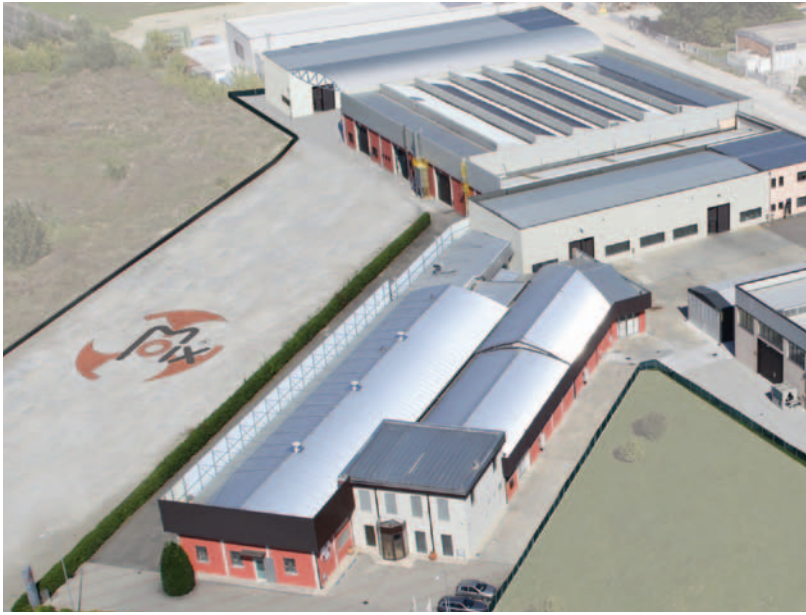
Bogotá D.C

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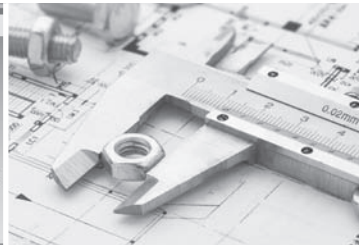
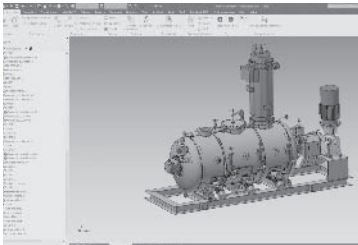
# Company



*Mixing  
Filtering  
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Mix has been developing and manufacturing Mixing Systems (**Mixers, Dryers, Reactors, Granulators, Sterilizers, Stirred Bunkers**) and Industrial Components (**Dust Collectors, Loading Bellows, Butterfly Valves, Slide Gates, Silo Accessories**) for bulk solids handling (powders, granules, fibres, pastes) used in different fields of application: Food processing, Pharma, Chemical, Plastic, Ecology, Cosmetic, Industry, Feedstuff and Laboratory.

- Established in **1990**
- Sales Network:
  - **MIX Deutschland GmbH**
  - **MIX India Bulk Handling Pvt.Ltd.**
- Turnover: **70%** Export - **30%** Italy
- Extension: **22.000m<sup>2</sup>** of which **12.000m<sup>2</sup>** covered



## TECHNOLOGY

- Research & Development
- Test Laboratory
- Analysis of the customer's requirements

## QUALITY

- Quality control for incoming materials
- Quality control for the whole production line
- Final Quality inspection

## SERVICE

- Technical and sales advice
- Laboratory Tests
- Service during installation

## INNOVATION

- Special machineries designed on demand
- Patent for Industrial Inventions
- Enrolled at the Italian Department for Research



## **BUSINNES MANAGEMENT**

The businnes management system is in compliance with the rules:

- **ISO 9001** - Quality Management System Certificate
- **ISO 14001** - Environmental Management System Certificate
- **BS OHSAS 18001** - Occupational Health and Safety Management System Certificate

## **PRODUCTS**

MIX products are:

- "Machinery", accompanied by the EC DECLARATION OF CONFORMITY  
(as per European Directive 2006/42/EC)
- "Partly-completed machinery", accompanied by the DECLARATION OF INCORPORATION  
(as per ATTACHMENT II, part 1, section B of the European Directive 2006/42/EC)
- "Not Machines"

The MIX products can also be compliant with Directives:

- ATEX 2014/34/UE
- PED 2014/68/UE
- Food regulation (EC) n. 1935/2004

MIX mixers obtained the TÜV ITALIA CERTIFICATION:

- TÜV IT 15 ATEX 055 X - EC-Type Examination
- TÜV IT 15 ATEX 062 Q - Production Quality Assurance Notification



## **Certificate Systems**

ISO 9001

ISO 14001

BS OHSAS 18001

*Food  
Pharmaceutical  
Plastic  
Chemical  
Building  
Ecology  
Cosmetics  
Industry  
Feedstuff  
Laboratory*

## **PATENTS**

The Industrial Patents obtained, the Patent Applications filed and the enrolment to the Italian Department of Research (502811WU) reward MIX commitment and allowed MIX to become a recognized reference in Industrial sector. The technological results achieved place MIX among the Leader Companies in designing and manufacturing of Mixing Systems and components for Bulk Solids Handling.



# Mixing

## MIXING WITH THE RIGHT PARTNER

Customers purchasing MIX mixer obtain technology - experience - support and industrial patented solutions with undeniable advantages with regards to technical and economic.



## PRODUCTS

Mixers, Stirred Bunkers, Granulators, Dryers, Reactors, Sterilisers

## PROCESS

Batch or Continuous

## VOLUMETRIC CAPACITY

From 2 to 50.000 liters

## APPLICATION

Atmospheric, vacuum, under pressure, with heat exchanger

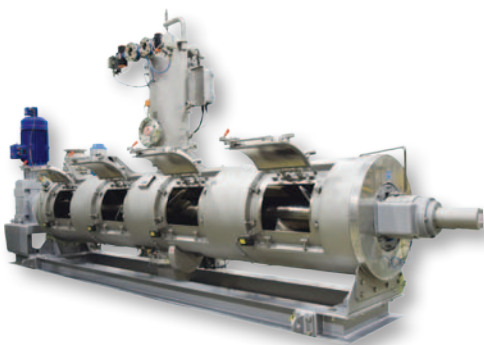
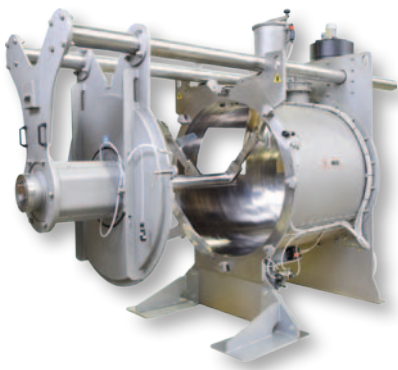
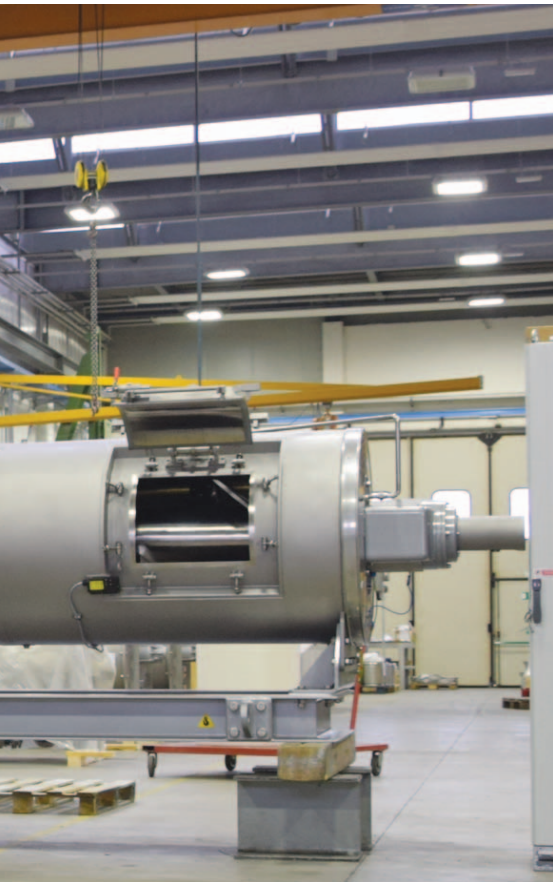
## MIXING TECHNOLOGY

ploughshare, MIX-paddles, fourfold screw ribbon

## MATERIAL

Carbon Steel, wear-resistant steel and stainless steel

*Mixing systems and components for plants*



# Filtering





### **FILTER WITH THE CORRECT PHILOSOPHY**

Air pollution, with dusts emitted into the atmosphere, causes detrimental effects to people and things.

Technological progress and environmental protection, job and health, economy and ecology must proceed hand in hand; a need for the present, and a commitment for the next future.

### **PRODUCTS**

Dust collectors and accessories

### **PROCESS**

Fan-assisted, Dust collection,  
Pressure and vacuum filtration

### **SUPERFICI FILTRANTI**

1 ÷ 135m<sup>2</sup> (Bag filters)  
4 ÷ 435m<sup>2</sup> (Cartridge filtre)

### **VERSION**

Atmospheric, vacuum, ATEX  
(also Resistant to explosion  
pressure impact)  
and high and low temperatures

### **CLEANING SYSTEMS**

To air compressed in counter-current

### **MATERIAL**

Carbon Steel  
and stainless steel



# Valves

## INTERCEPTING WITH RELIABILITY

The prerogatives pursued by MIX for interception equipment are reliability and service, to make the product available at the opening phase of the valve, to regulate the flow rate, and to avoid damage to things or people at the closing phase



## PRODUCTS

Butterfly valves, slide valves, to pinch valves with actuators

## PROCESS

Interception

## DIMENSIONS

DN100 ÷ DN400 (Butterfly valves)

DN250, DN300 (Butterfly valves for silos)

DN150 ÷ 800 (Slide valves)

DN80, DN100 (Pinch valves)

## VERSION

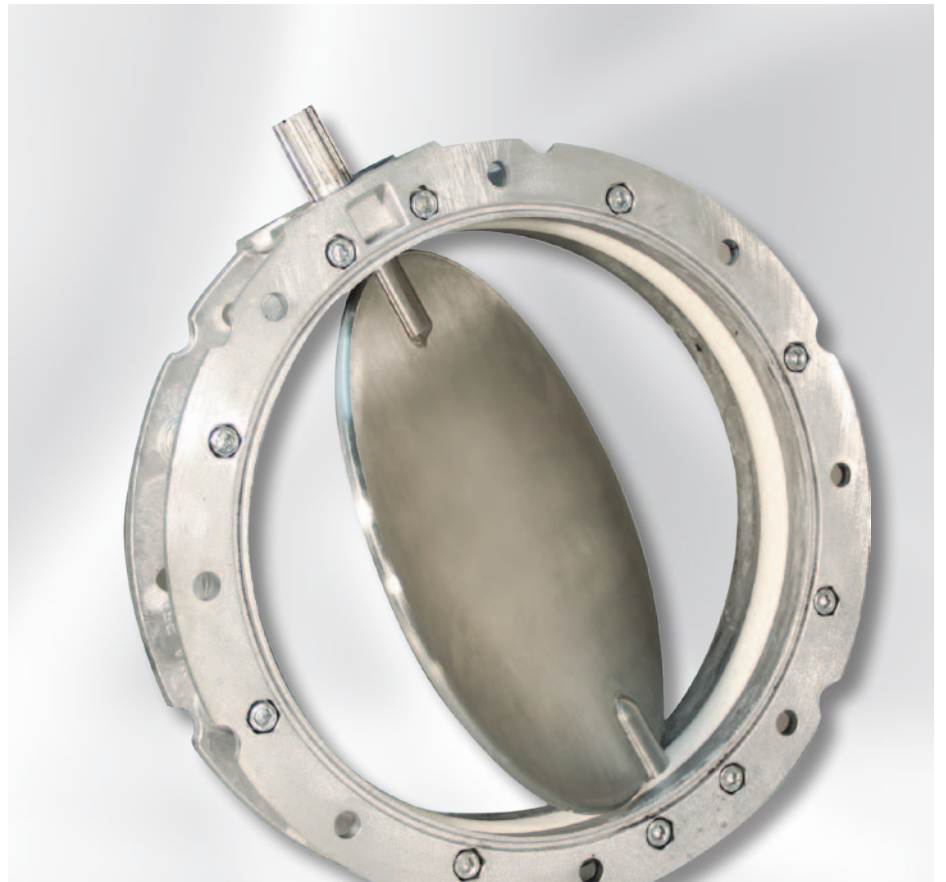
Atmospheric, resistant to high temperatures

## MATERIAL

Alluminium, carbon Steel and stainless steel



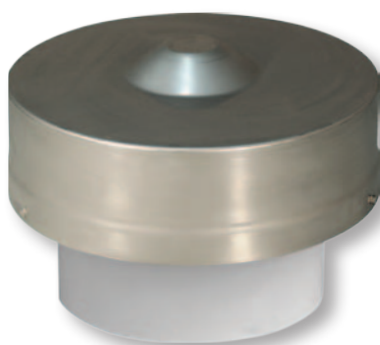
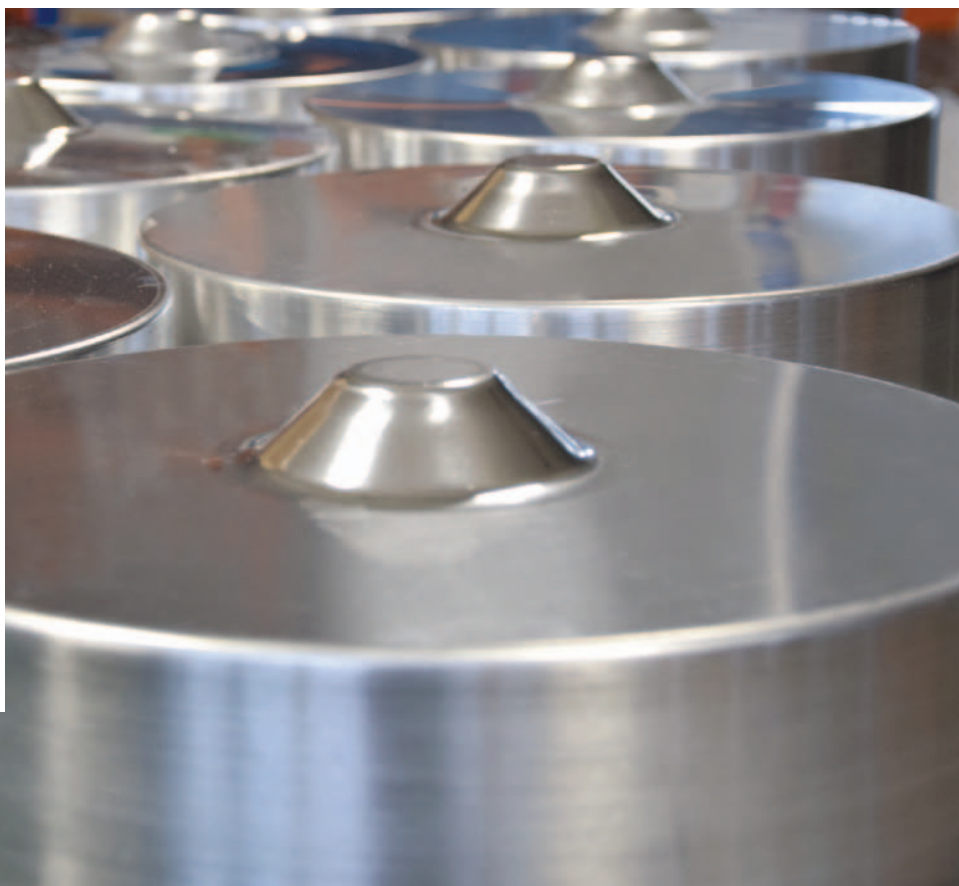
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# Monitoring

## MONITORING BY CHECKING THE INFORMATION

Priority for the control of the plant is the timely availability of information on the status of each containers, silos, hoppers. MIX monitoring components ensure a timely detection of the data that, collected and analyzed, allow to protect the plant and improve its efficiency.



## PRODUCTS

Overpressure and depression valves, manhole, overpressure meters, level gauges

## PROCESS

Monitoring systems

## MATERIAL

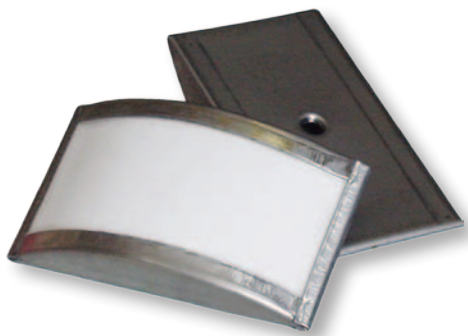
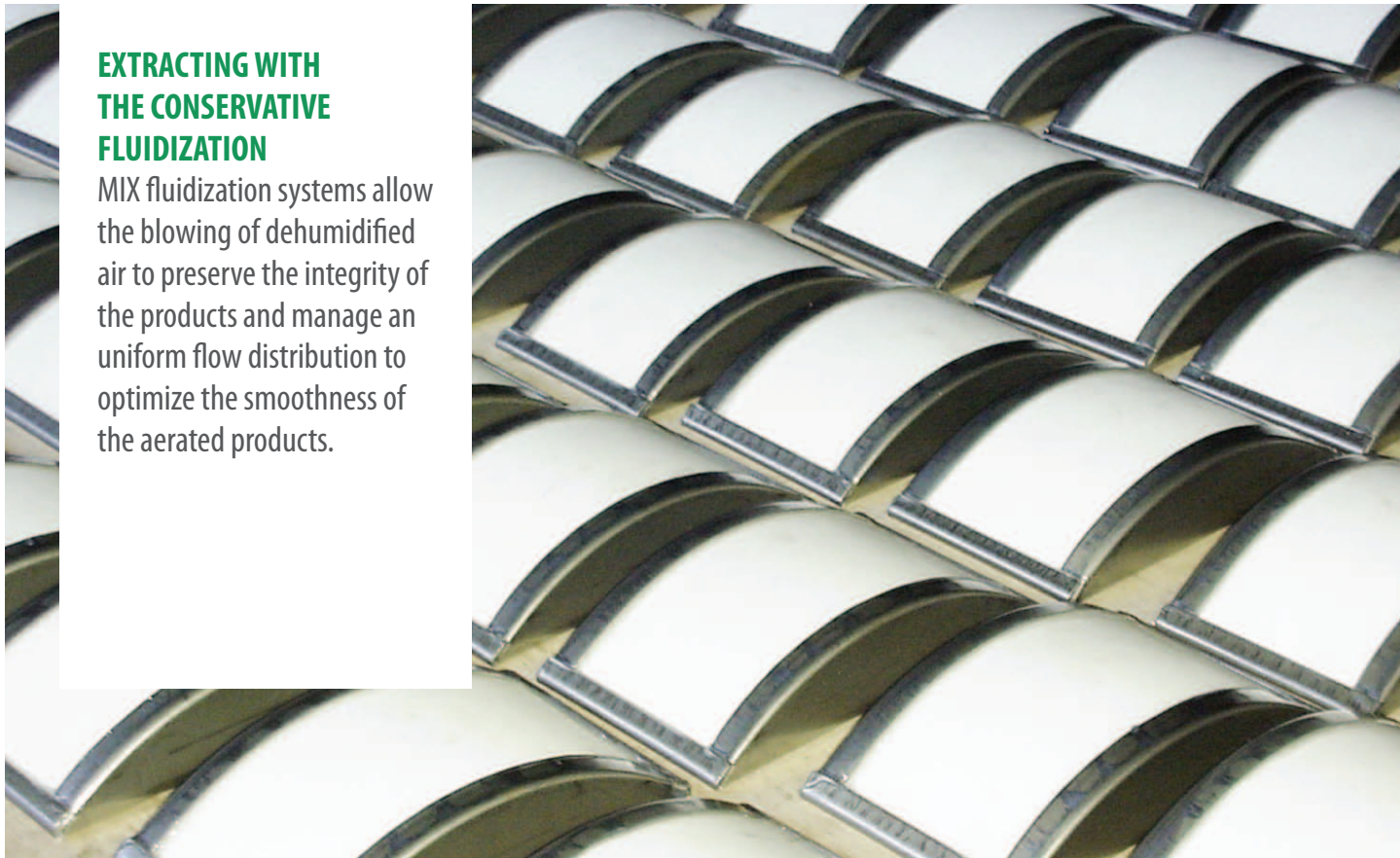
Alluminium, carbon Steel and stainless steel



# Extraction

## EXTRACTING WITH THE CONSERVATIVE FLUIDIZATION

MIX fluidization systems allow the blowing of dehumidified air to preserve the integrity of the products and manage a uniform flow distribution to optimize the smoothness of the aerated products.



## PRODUCTS

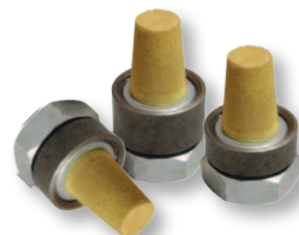
Pad, disc, aeration nozzles

## PROCESS

Aeration, Extraction

## MATERIAL

Carbon Steel and stainless steel, sinterized



# Conveying

## CONVEYING PRESERVING THE ENVIRONMENT

The technical solutions applied to MIX Loading Bellows guarantee, in complete safety, high load performance, resistance to abrasion (with internal metal telescopic tubes) and protection of the environment (with built-in dust collection and recovery systems).



## PRODUCTS

Loading bellows

## PROCESS

Conveying

## TRAVEL

800÷8.000mm  
(other travels on demand)

## VERSION

Inner duct with metal pipes

## DUST COLLECTION SYSTEMS

with built-in filter or with  
prearrangement only

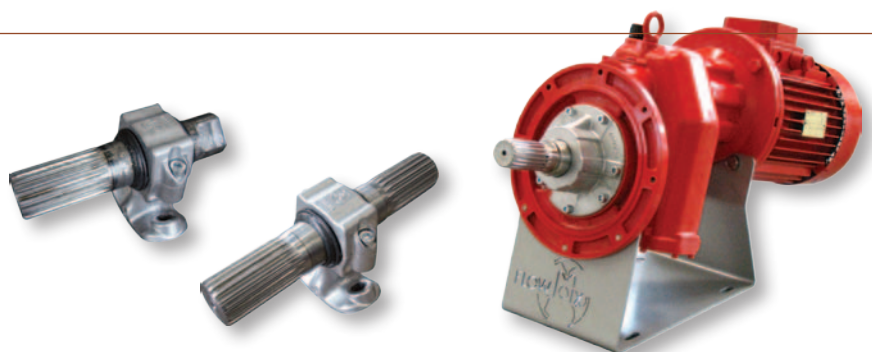
## MATERIAL

Carbon steel, wear resistant material,  
Stainless steel



## SCREW CONVEYOR COMPONENTS

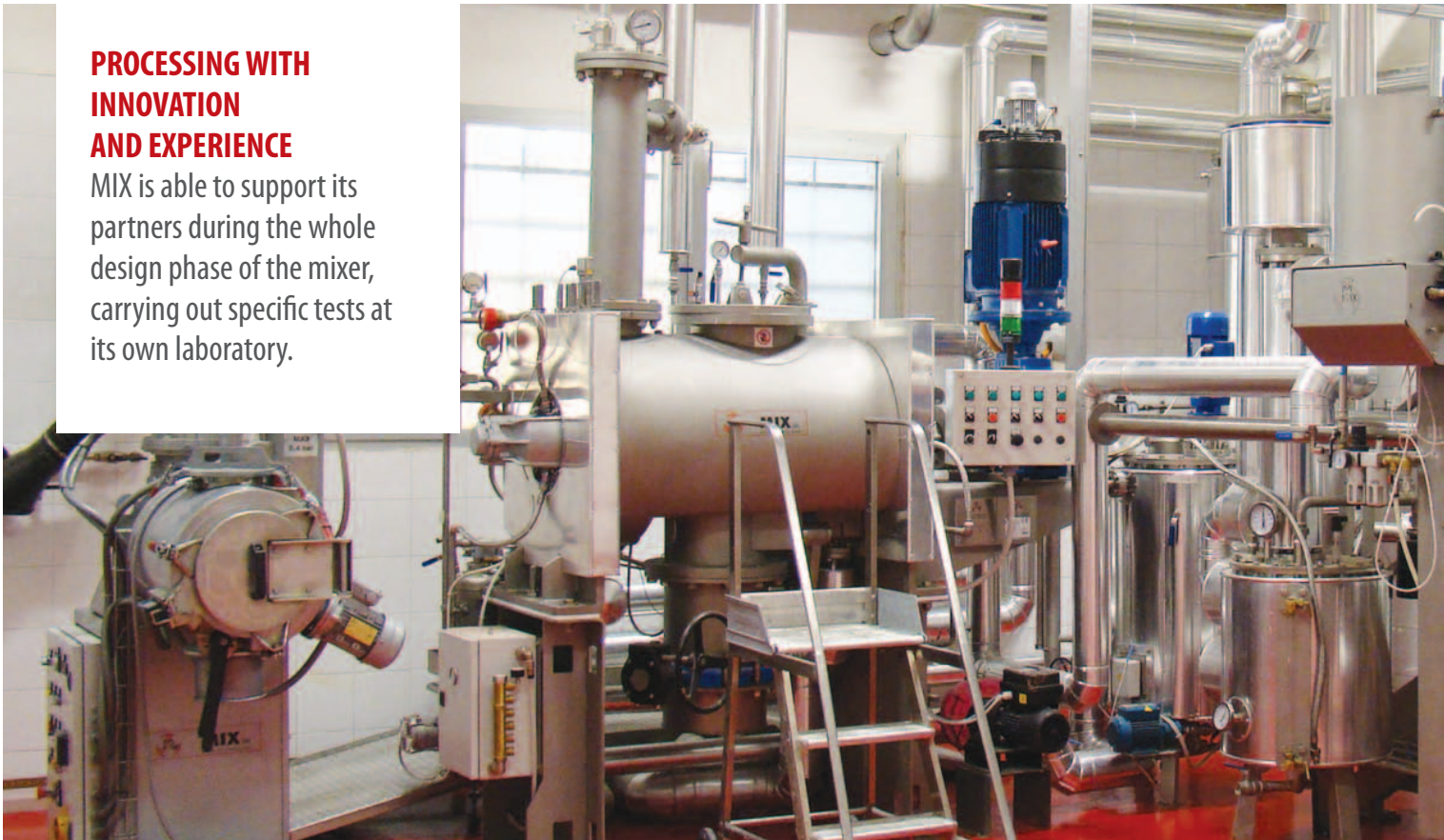
MIX components for screw conveyors ensure interchangeability with other solutions and excellent wear resistance. In addition, MIX gearboxes feature a patented solution that injects compressed air into the seal to allow the fluidization of the product.



# Test Laboratory

## PROCESSING WITH INNOVATION AND EXPERIENCE

MIX is able to support its partners during the whole design phase of the mixer, carrying out specific tests at its own laboratory.



MIX firmly believes in the importance of research, development and innovation. Recently MIX enhanced its internal Testing Facility with brand new machineries and is now able to execute trials with harder parameters. The handling of chemical reactions and physical variations, the measurement of moisture content of the products and the increase or decrease of pressure and temperature in the mixer is now fully automated.



## EXPERIENCE

To the benefit of the Customer

## CONTROL

Of all parameters, during every step of the whole process

## PARAMETERS

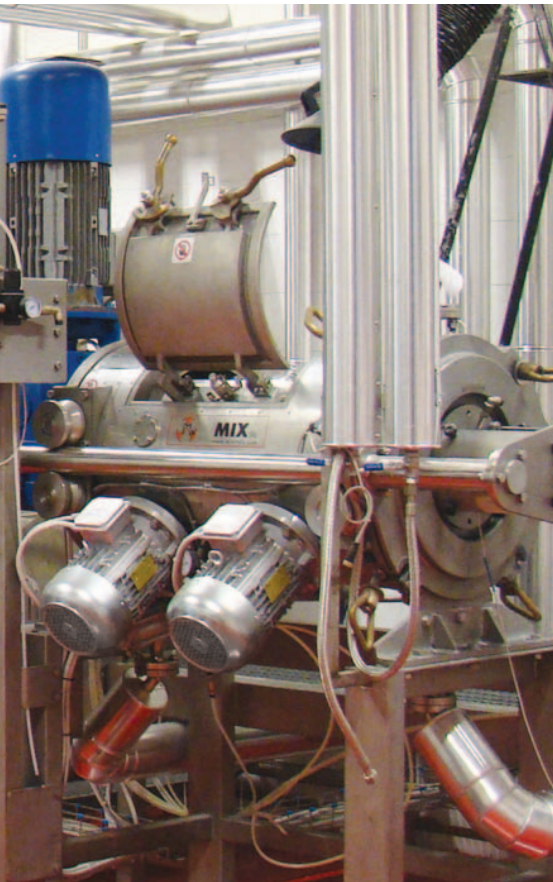
Temperatures up to  $+180^{\circ}\text{C}$ , pressure up to  $+5\text{bar}$  and in vacuum

## GUARANTEE

That the achieved results are repeatable on the industrial mixers

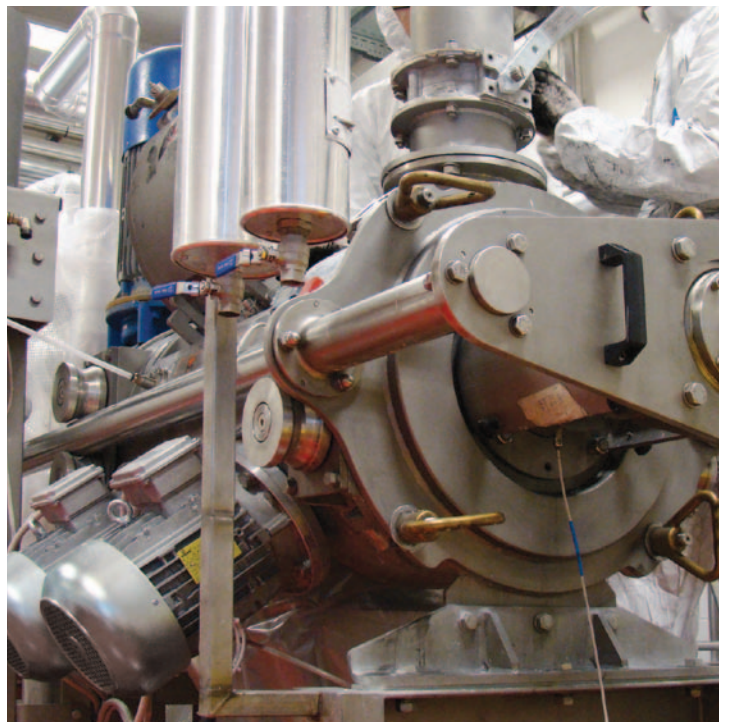
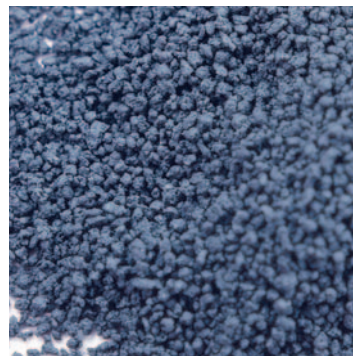
## RESEARCH

Enrolment at the Italian Department for National Research 502811WU



MIX guarantees the confidentiality of the processed information and that the results obtained during trials in the testing facility are scalable and repeatable with industrial mixers. It is now much easier to determine the characteristics of each raw material and, therefore, identify the most suitable mixing techniques for obtaining the desired final result.

**Powders, Granules, Fibers, Pastes** can be tested in the new laboratory, even in classified hazardous atmosphere (ATEX).



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SERVICE  
TECHNOLOGY  
INNOVATION*



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