



MIX S.r.l.

MIXING SYSTEMS AND
COMPONENTS FOR PLANTS

www.mixitaly.com

Mixing Division

Laboratory Mixers



 ATEX RANGE AVAILABLE

Quality and Innovation

PRODUCTS AND SOLUTIONS FROM MIX

The results we report from the tests in our laboratory and pilot mixers are accurately repeated in the whole range of MIX mixers; our experience and the project processing are set up on mathematic formulas which establish the normal parameters of all our mixers.

Our range of laboratory and pilot mixers have basically the following configuration:

- ✓ Easy disassembling/reassembling, for an effective cleaning of the internal mixing chamber, and of the rotor.
- ✓ In-built electric control panel.



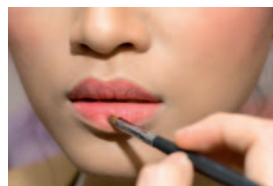
FIELDS OF APPLICATION



Food



Chemical



Cosmetic



Building



Ecology



Pharmaceutical



Industry



Laboratory



Feedstuff

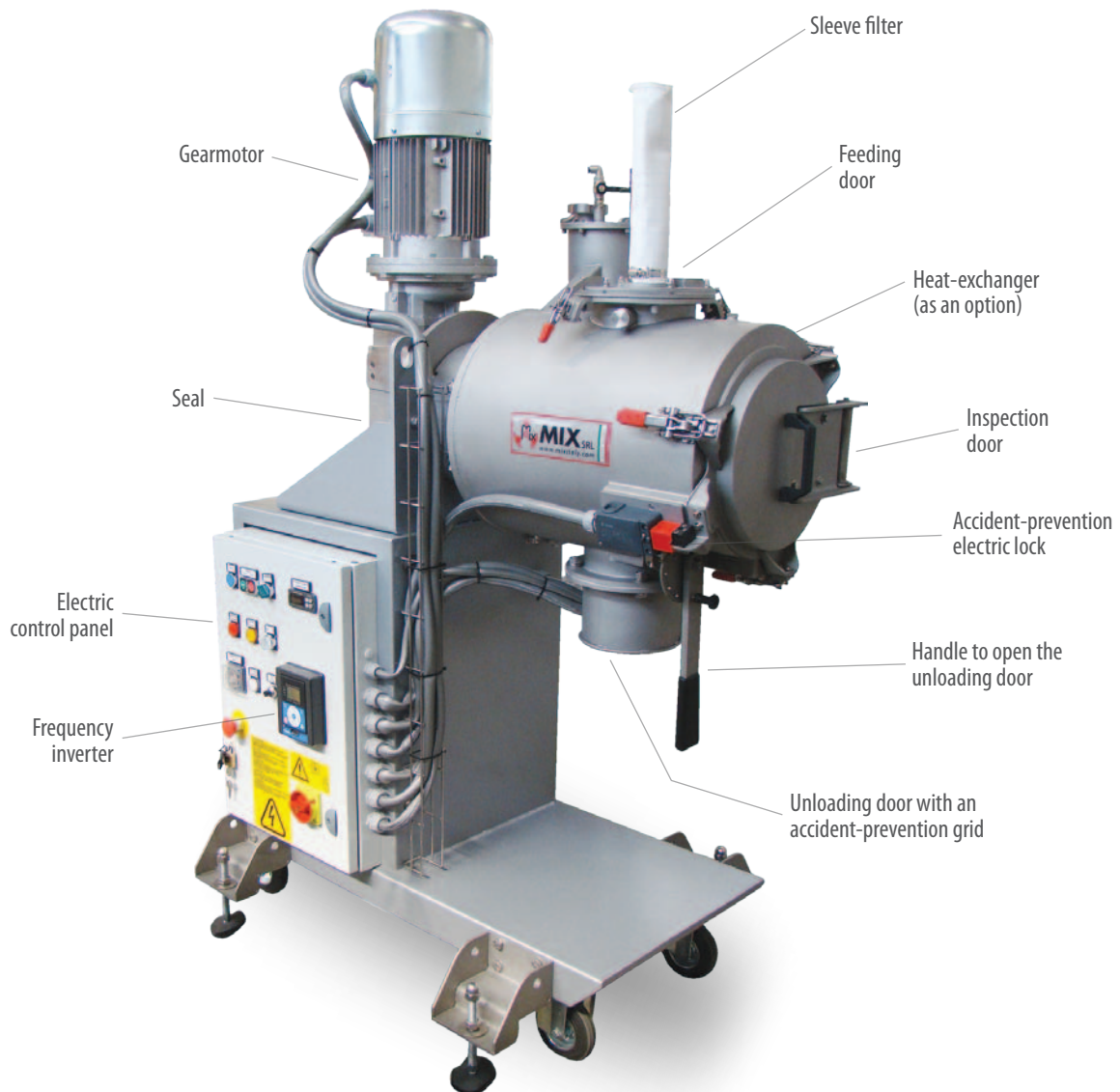


Plastic

Operation

THE PRINCIPLE OF THE THREE-DIMENSIONAL MECHANICAL FLUIDISATION

The working principle of the horizontal ploughshare-mixer is based on the “three-dimensional mechanical fluidisation” (with a centrifugal vortex) of products. This work is obtained with ploughshare-shaped mixing tools, which cause a high turbulence and give fast and exact penetration / homogenization of the different ingredients in the mixing process (regardless of their physical characteristics).



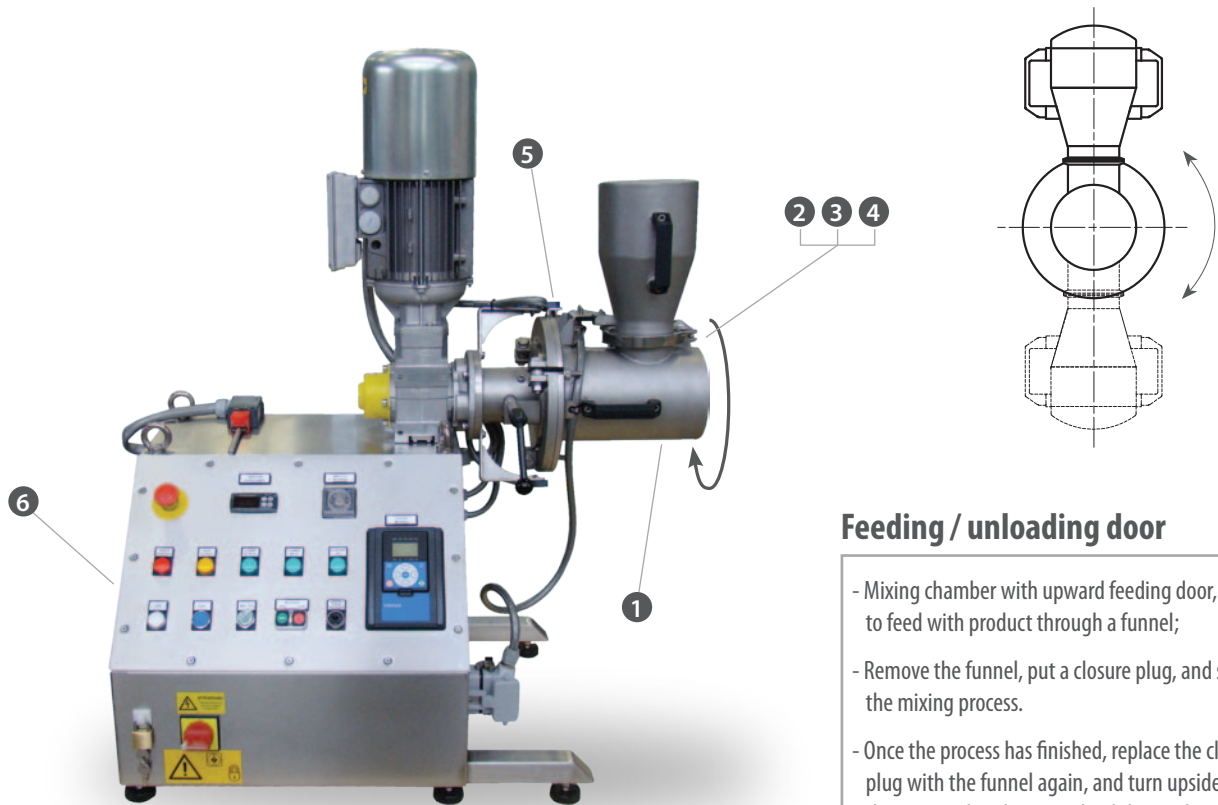
CUSTOMIZATION

- Frequency inverter, and motor with cooling fan
- Detector of rotations
- Timer, to control the mixing time
- Ammeter, to control the absorption in the motor
- Thermal sensor, to detect working temperature, with a display device
- Chopper
- Double jacket, for thermal exchange (heating / cooling)
- Valve to vent the pressure inside the mixing chamber
- Mechanical seals MX.0012 – MX.0030
- Nozzle for injection of liquid ingredients
- Feeding hopper complete with a limit-switch / closing door
- Dust collector
- Wheeled frame
- ATEX certification

Mixer for laboratory purposes

MX.0002 - MX.0005

Mixer / reactor, model MXC for BATCH productive process, with ploughshare-shaped mixing tools. Removability of the mixing chamber, for a complete cleaning process. Mixing chamber (endplates excluded) is complete with a heat-exchanger. Surface finish: polished inside; glass-pears blasted outside.



Feeding / unloading door

- Mixing chamber with upward feeding door, to feed with product through a funnel;
- Remove the funnel, put a closure plug, and start the mixing process.
- Once the process has finished, replace the closure plug with the funnel again, and turn upside-down the mixing chamber, to unload the product.



Internal chamber with welded ploughs, and polishing treatment



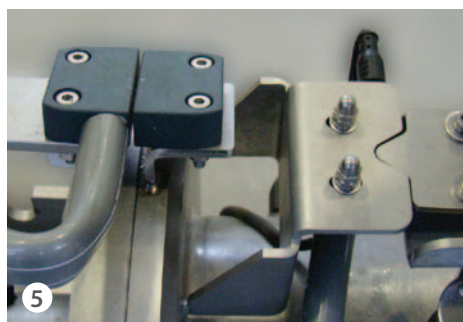
Funnel for product feeding/unloading



Closure plug for the feeding door



Upside-down turning, to unload product



Magnetic sensor, as accident-prevention device

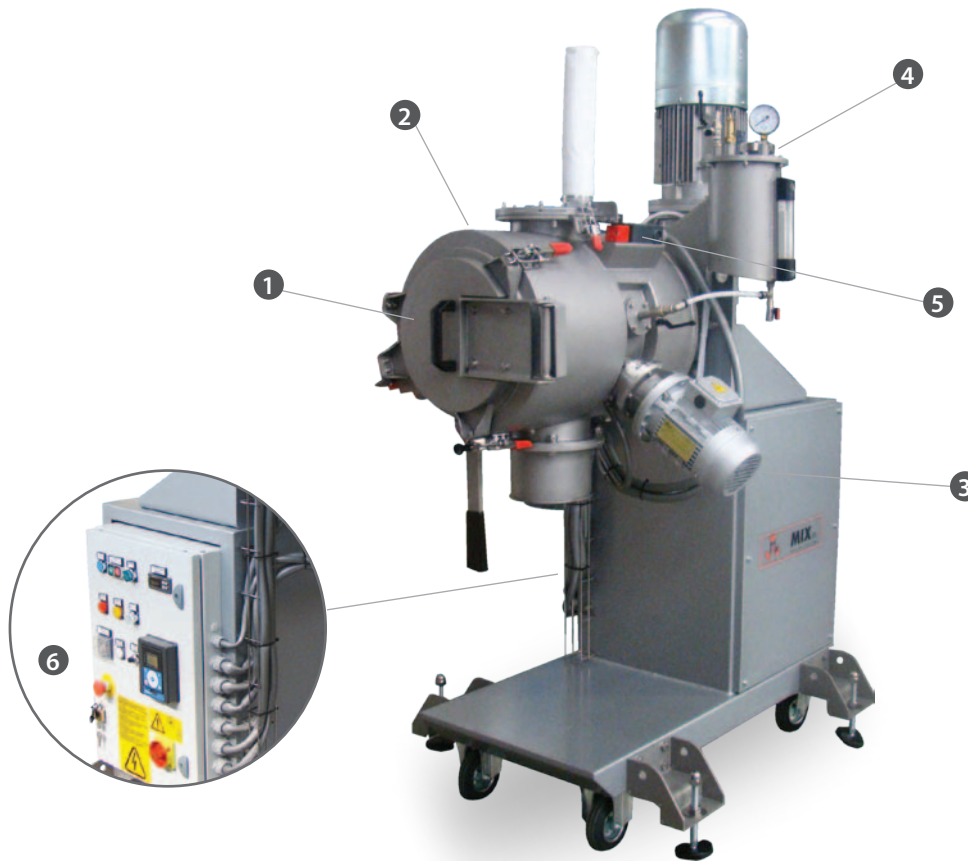


Control panel

Mixer for laboratory purposes and for production

MX.0012 - MX.0030

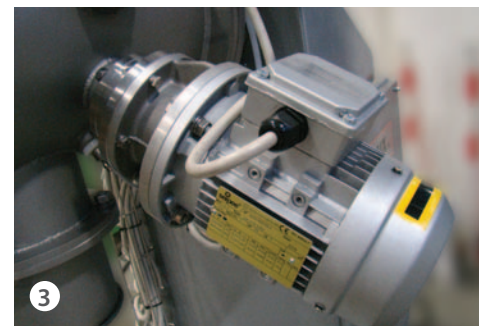
Mixer/Reactor for laboratory, model MXC0030 for BATCH productive process, with ploughshare-shaped mixing tools. Mixing chamber (endplates excluded) equipped with double jacket for heat exchange. Polishing treatment inside; glass-pears beaded outside.



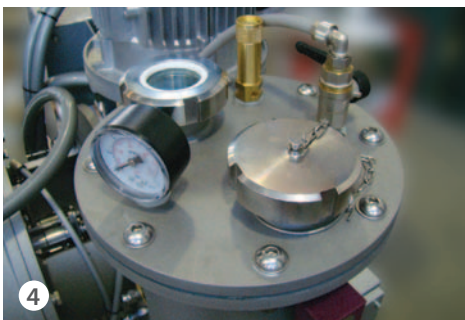
1 Internal chamber with welded ploughs, and polishing treatment



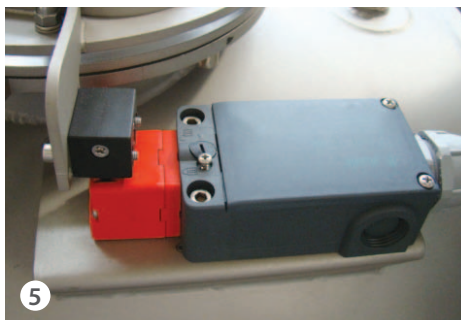
2 Mixing chamber, endplates excluded, equipped with heat exchanger (as an option)



3 Chopper



4 Tank for liquid injection (as an option)



5 Accident-prevention electric lock

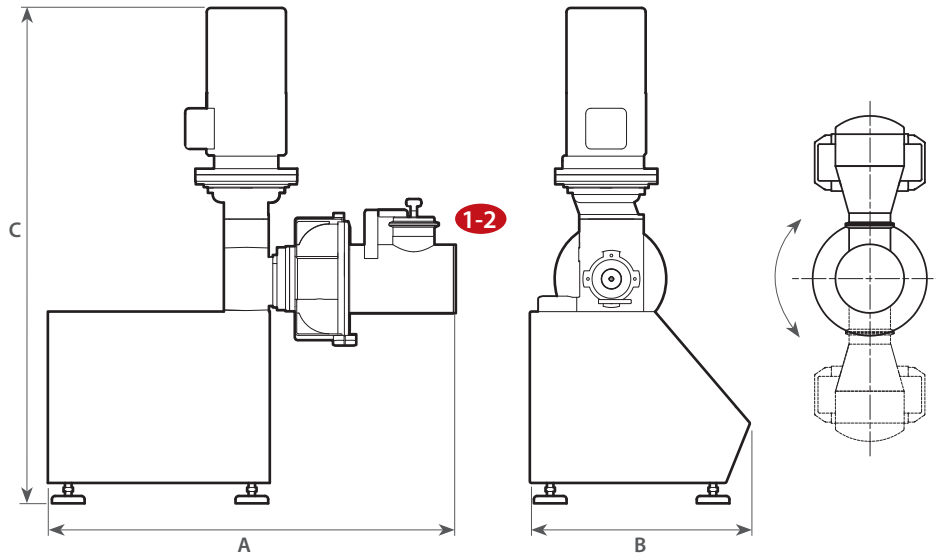


6 Control panel

Technical Data Sheets

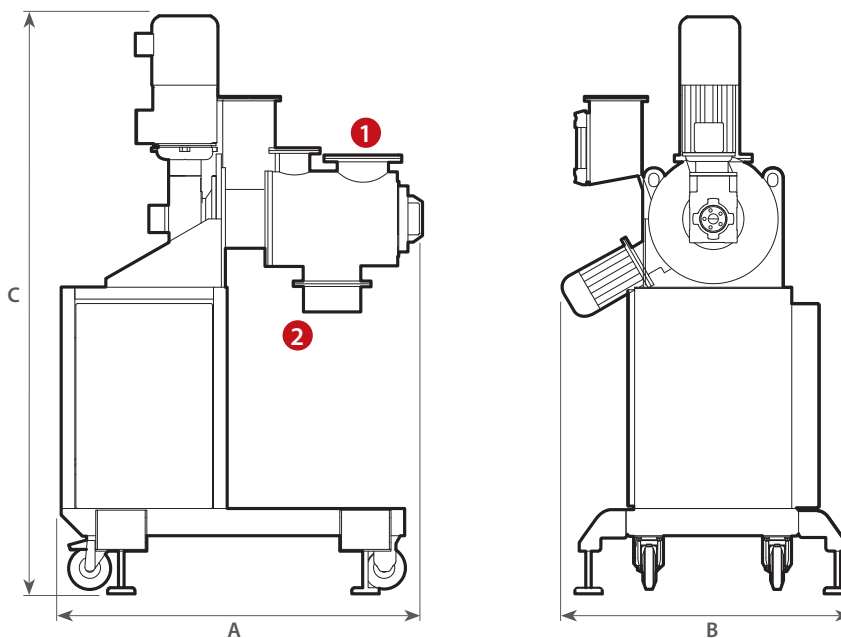
MX.0002 - MX.0005

1-2 Door for product feeding/unloading



MX.0012 - MX.0030

1 - Feeding door
2 - Unloading door



STD	ATEX	TYPE	A	B	C	kg	Working capacity in liters	
							MIN.	MAX
N-	A-	MXC0002	1000	600	1350	170	0,7	1,4
N-	A-	MXC0005	1000	600	1370	180	1,5	3
N-	A-	MXC0012	1020	650	1450	270	3,5	7
N-	A-	MXC0030	1120	700	1520	320	10	20

NOTE: Height expressed in mm, if not specified otherwise. The company MIX reserves the right to make changes without prior notice. All sizes shown are approximate. The values are intended with tolerances resulting from normal production fluctuations. In special cases, and for precise values, our written confirmation is required.

Process-Specific Solutions



MIXER

Suitable for mixing dusty ingredients/granular ingredients/fibres/and cakes , with possible injection of some liquid. MIX technology ensures a perfect mixture, a very good unloading, and a perfect tightness in the unloading door.

GRANULATOR

Suitable for transformation of dusty particles into granules, with the injection of some liquid. Granules are obtained according to the required dimension, and, if necessary, they are dried inside the mixer.



REACTOR

Suitable for mixing process / chemical or physical reactions, in vacuum, or with pressure, with an heat-exchanger to cool or to heat the product.

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QUALITY
SERVICE
TECHNOLOGY
INNOVATION

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