

MIX s.r.l. MIXING SYSTEMS AND COMPONENTS FOR PLANTS

www.mixitaly.com

Mixing Division



Quality and Innovation

MIX PRODUCTS AND SOLUTIONS

The laboratory mixer series was developed to focus on the needs of R&D laboratories, research institutes and small pilot plants.

The main characteristics are:

- ✓ Versatility
- Easy disassembly and cleaning
- ✔ Repeatability of the results obtained and scale up of the process on industrial mixers
- Plug and play solution

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).

Process Specific Solutions

MIXER

with possible injection of liquids. The MIX technology guarantees a perfect mixing, an excellent emptying, as well as a complete sealing of the discharge outlet.

GRANULATOR

Machine suitable for transforming powder particles into granules, by injection of liquids. The granules are obtained in the required size and eventually dried in the machine.

REACTOR / DRYER

Machine suitable for mixing processes with a chemical or physical reaction, in vacuum or in overpressure, with heat exchanger for cooling or heating of the product.







Technical features

MX.00 02-05				
MODEL	Load capacity (liters)			
	MIN	MAX		
MXCM00 02	0,7	1,4		
MXCM00 05	1,5	3		



STANDARD

- mixing chamber in AISI 304
- 1 loading/unloading port with safety block, manual rotation of the chamber according to the working phase
- overhung rotor shaft with ploughshare tools
- mechanical rotor shaft seal
- removable chamber for easy cleaning with safety block
- 1 cover reconstructing the shape of the mixing chamber
- 1 container for loading/unloading of product
- electric control panel with inverter
- suitable for applications in atmospheric pressure

OPTIONALS

- heat exchanger
- isolation of the chamber
- liquid injection kit
- chopper
- internal chamber in AISI 316
- rotorshaft with paddle or ribbon tools
- suitable for processes in vaccuum or overpressure
- ATEX certification according to 2014/34/EU
- Declaration of conformity for 1935/2004/CE and 2023/2006/CE
- Certification for PED 2014/68 /EU
- touch screen

MX.00 12-30				
MODEL	Load capacity (liters)			
	MIN	MAX		
MXCM0012	3,5	7		
MXCM00 30	10	20		



STANDARD

- mixing chamber in AISI 304
- loading port with safety
- front hatch with safety
- manual discharge port
- overhung rotor shaft with ploughshare tools
- flushed rotor shaft seal with packing
- 1 side chopper
- 1 predisposition for liquid injection kit
- 1 filter bag
- electrical control panel with inverter
- compressed air control line
- mild steel frame
- suitable for application in atmospheric pressure

OPTIONALS

- heat exchanger
- isolation of the chamber
- liquid injection kit
- chopper
- internal chamber in AISI 316
- rotorshaft with paddle/ribbon tools
- suitable for processes in vaccuum or overpressure
- ATEX certification according to 2014/34/EU
- Declaration of conformity for 1935/2004/CE and 2023/2006/CE
- Certification for PED 2014/68 /EU
- touch screen

MX.00 75				
MODEL	Load capacity (liters)			
	MIN	MAX		
MXCM00 75	10	65		



STANDARD

- mixing chamber in AISI 304
- loading hatch with safety
- front hatch with safety
- pneumatic discharge port
- overhung rotor shaft with ploughshare tools
- flushed rotor shaft seal with packing
- 1 side chopper
- 1 predisposition for liquid injection kit
- 1 filter bag
- electrical control panel with inverter
- pneumatic control panel
- mild steel frame
- suitable for application in atmospheric pressure

OPTIONALS

- heat exchanger
- isolation of the chamber
- liquid injection kit
- chopper
- internal chamber in AISI 316
- rotorshaft with paddle or ribbon tools
- suitable for processes in vaccuum or overpressure
- ATEX certification according to 2014/34/EU
- Declaration of conformity for
- 1935/2004/CE and 2023/2006/CE
 - Certification for PED 2014/68 /EU
 - touch screen

Tabletop Laboratoy Mixer 02-05

Laboratory mixer type MXC for BATCH production processes with ploughshare mixing tools. Possibility to remove the mixing chamber for a thorough cleaning. Polishing treatment on the inside of the chamber, shot blasting treatment on the outside.



Internal chamber with welded ploughs, and polishing treatment



Container for product feeding/unloading



Closure plug for the feeding door







Upside-down turning, to unload product



Magnetic sensor, as accident-prevention device

Control panel

Laboratory Mixer 12-30

Laboratory mixer type MXC for BATCH production processes with ploughshare mixing tools. Polishing treatment on the inside of the chamber, shot blasting treatment on the outside.



Internal chamber with welded ploughs, and polishing treatment



Mixing chamber complete with heat exchanger on the Ch cylindrical part (optional)



Chopper



4

Tank for liquid injection (as an option)

Accident-prevention electric lock

5

6 Touch screen (optional)

Laboratory and Production Mixer 75

Laboratory mixer type MXC for BATCH production processes with ploughshare mixing tools. Polishing treatment on the inside of the chamber, shot blasting treatment on the outside.



Front hatch with safety block



Chopper and liquid injection



Loading and inspection hatch with safety block





Pneumatic control panel

Safety electro block

Touch screen (optional)

Technical Data Sheets



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.

1350

1370

1450

1520

1550

170

180

270

320

750

600

600

650

700

1200

STD

N-

N-

N-

N-

N-

ATEX

A-

A-

A-

A-

A-

TYPE

MXC0002

MXC0005

MXC0012

MXC0030

MXC0075

1000

1000

1020

1120

1600

Capacity liters of work

MAX

1,4

3

7

20

65

MIN.

0,7

1,5

3,5

10

10

MIXING SYSTEMS AND COMPONENTS FOR PLANTS

QUALITY SERVICE TECHNOLOGY INNOVATION

www.mixitaly.com



MIX s.r.l. - 41032 CAVEZZO (MO) - Via Xoltumo, 119/A - ITAL Tel. +39 0535.46577 - Fax +39 0535.46580 - Info@mixitaly.c

09A105HEN/221