



**mixron**  
*Think smart. Mix better.*

# mixron MFC

High-Productivity Container Mixer for  
MasterBatch and Powder Coating





## **mixron MFC**

Higher productivity with simultaneous operation of 2 containers

Designed to maximise the efficiency of your production system

Thanks to its highly flexible design, the system easily adapts to any type of production layout

## High performance, efficiency and technological innovation.

The mixron MFC container mixer enables excellent mixing of powders, particularly for coloured pigments, material compounds, plastics and coatings.

Easy cleaning is essential to ensure high efficiency in every application, especially when the presence of residues or contamination from other preparations is a critical issue.

The ability to handle two containers independently at the same time significantly increases the machine's productivity.

Operator waiting times are reduced to almost zero, contributing to a workflow without interruptions.

The product range offers the flexibility to select from a variety of versions (from 200 to 1,500 litres), different loading options and a wide range of containers and mixing tools that can be matched.



**Mixing tools**



**Clamping system**



**Mixing operation**

## Clamping system

- › Pneumatic or hydraulic
- › Powerful clamps designed to lift and hold containers
- › Extremely easy cleaning and maintenance operations

## Innovative mixing head with vertical and inclined positioning options

- › During operation, the mixing head moves vertically, lowering the centre of gravity and providing a significant reduction of vibrations
- › The height of the heads can be easily adjusted for easy cleaning and maintenance
- › No ladders are needed to clean or maintain the mixer

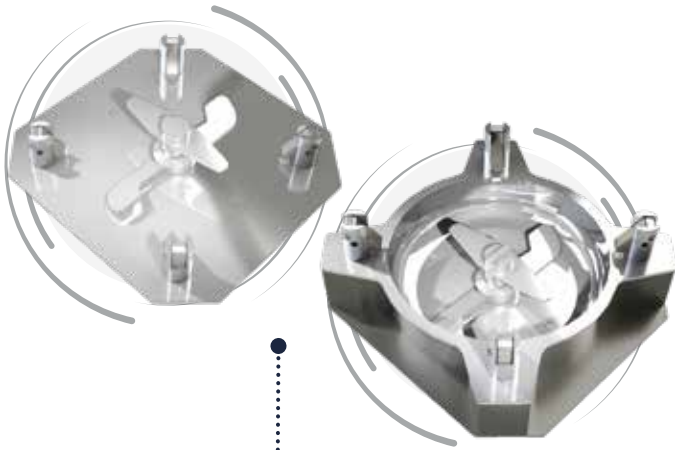
## Container guide

- › Robust and firmly anchored to the ground
- › The operator can position the container easily and always in the correct
- › Indicator light confirms correct positioning of the container in real time

## Container with guide pin

- › The extremely robust design of the pin and guide guarantees a longer service life for your container
- › The gap between pin and guide ensures smooth insertion and correct positioning of the container





### Multiple choice of mixing head

- › Flat or concave head
- › Heads interchangeable
- › One head can receive containers of different sizes



### Container seal

- › The seal located on the upper flange of the container guarantees a perfect tightness between mixing head and container



### Dust suppression system

- › The integrated filter system prevents dust from being released when the container has been repositioned



### Integrated electrical control panel

- › Reduced overall dimensions
- › Wiring contained within the machine structure
- › Easy access for maintenance operations

# Container loading layouts

Discover a world of possibilities with mixron MFC's modular design, which offers a variety of configurations for both single and double versions.

Once the machine is in position, you can choose to place the bin at the front or side, making use of all available combinations to optimise your space.



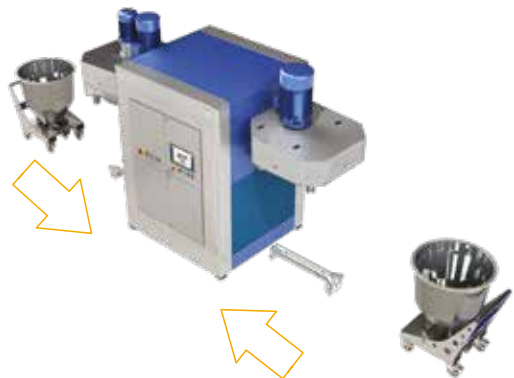
**Single**  
right-front



**Single**  
right-side



**Double**  
front



**Double**  
side



**Double**  
left front-right side

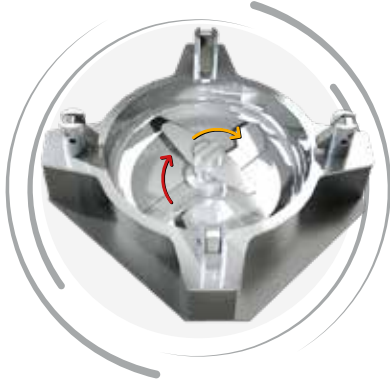


**Double**  
left side-right front

## Mixing solutions

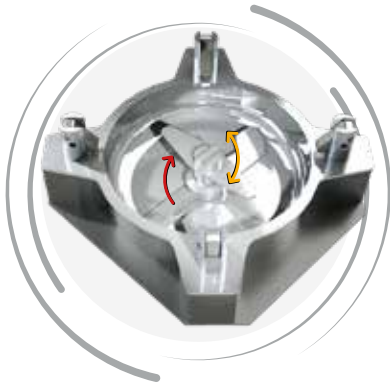
Achieve optimal mixing with mixron MFC.

The mixing tool assembly consists of a lower blade that generates a dynamic vortex and an upper wing that optimises the dispersion of powders, guaranteeing optimum performance.



$V1=V2$

Same angular speed  $V1=V2$  using a single motor and a single axis of rotation.



$V1 \neq V2$

Independent speeds  $V1 \neq V2$  thanks to two separate motors and a dual coaxial rotation axis. In this case, the direction of rotation can also be different between the two tools.



Chopper V3

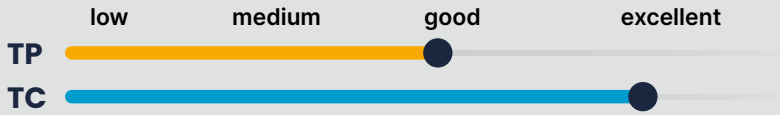
The efficient action of a chopper dissolves any lumps in the ingredients of your recipe.

# Mixing Heads

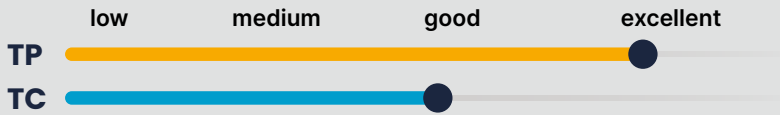
Discover the range of mixing heads available for mixron MFC. You can opt for a flat-bottomed head, for extremely easy cleaning, or choose one with a concave bottom. Both solutions include a de-dusting system to ensure that dust does not escape once the container is returned.

The choice between these solutions depends on your specific needs.

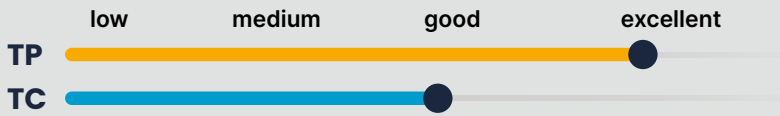
## MIXING QUALITY



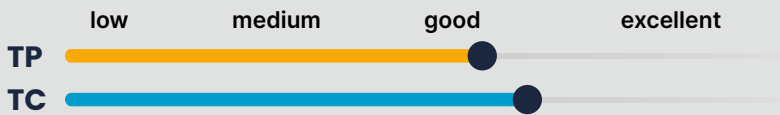
## CLEANING TIME



## FLEXIBILITY



## MIXING TIME



**TP** Flat-bottomed head

**TC** Head with concave bottom



**Flat-bottomed head**



**Head with concave bottom**



## Typical layouts

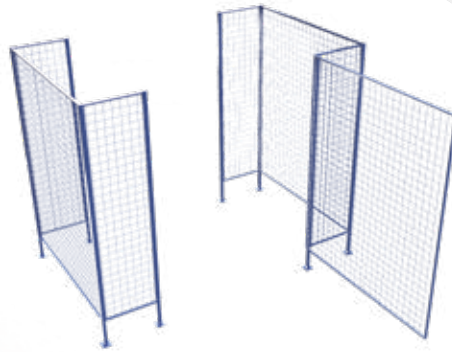
mixon MFC offers excellent mixing capacity for a wide range of powdery materials, with a focus on coloured pigment masterbatches, plastic compounds and coatings.

## Accessories

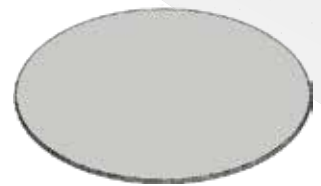
A wide range of accessories completes the supply of mixron MFC.



**Unloading station**



**Safety nets**



**Covers for containers**



**Containers**



**Lifting equipment**

# HMI Control



A single system which can split into two.  
The large 15.7 inch screen allows to display and manage both containers simultaneously.



The split safety system enables work with one container and "clean" the second mixing head.



The assembly and disassembly of the mixing tools becomes simple as never before.

You can also schedule the position for maintenance and cleaning.



The head, moving on the vertical axis and equipped with rotation, offers comfortable positions for cleaning operations. This feature eliminates the need for the operator to use temporary ladders to reach distant areas.

# mixron MFC Range



Type	Volume (l)	Drive unit (kW)			Overall dimensions				
		V1 = V2	V1 ≠ V2	Chopper	A (mm)	B1 (mm)	B2 (mm)	B3 (mm)	C (mm)
<b>MFC 200</b>	160	15	11 - 4	2.0	1,600	1,720	2,900	4,000	2,300
<b>MFC 300</b>	240	18.5	11 - 7.5	2.0	1,600	1,720	2,900	4,000	2,300
<b>MFC 400</b>	320	22	15 - 7.5	2.0	1,600	1,720	2,900	4,000	2,500
<b>MFC 500</b>	400	30	18.5 - 11	2.0	1,600	1,920	3,600	5,200	2,700
<b>MFC 600</b>	480	37	22 - 15	3.0	1,600	1,920	3,600	5,200	2,950
<b>MFC 700</b>	560	45	30 - 15	3.0	1,600	1,920	3,600	5,200	3,250
<b>MFC 800</b>	640	55	37 - 18.5	4.0	1,600	1,920	3,600	5,200	3,300
<b>MFC 1000</b>	800	55	37 - 18.5	5.5	1,900	2,120	4,100	6,000	3,600
<b>MFC 1200</b>	960	75	55 - 22	5.5	1,900	2,120	4,100	6,000	3,750
<b>MFC 1500</b>	1,200	75	55 - 22	7.5	1,900	2,120	4,100	6,000	4,000

## Complementary equipment



**mixron CP**  
Control panel and software



**WAMFLO®**  
Dust collectors



**mixron MLI**  
Heating, feeding and liquid injection system



**mixron MDB**  
Integrated mixing system

# MIC mixron Innovation Centre



## Test us

The mixron team of experts is at your disposal.

Test your recipe under production conditions at the MIC (mixron Innovation Centre), an automated loading, feeding and mixing plant for Dry-Blend.



MIXRON SRL - Via Brigata Ebraica, 50  
48123 Ravenna (RA) P.I. 03456680366  
tel. +39 0544 410511 - info@mixron.it - www.mixron.it

**made in italy**