



The TRR overturning container mixer is the ideal alternative to traditional turbomixers when production conditions require high levels of flexibility and involve a wide range of different products to be mixed with the same machine.

Thanks to the special construction which is divided into two distinct and separate parts (mixing head and container hopper), **cleaning times are reduced to a minimum, as is the risk of contamination when changing from one type of product to another.** Storage and transport of the mixtures is also facilitated by direct use of the same containers, which can easily be inserted into a batching system. It is suitable for:

- Cold mixing of polymers in powder or granular form with pigments, fillers and additives.
- Powder Coatings
- Pre-mixing of all kinds of powders
- Concentrated masterbatches
- Compounds of PVC, PE, PP, PS, PA, TPE, ABS, EPS...

FEATURES

MIXING VESSEL

- Internal surfaces in contact with the material are made of stainless steel
- Double or triple insulated jacket for the circulation of water or oil

MIXING TOOL

- Made of stainless steel, with coating of wear proof material on the parts subject to most friction

TEMPERATURE CONTROL

- By means of thermocouple located at the side of the mixing vessel to control operating and safety temperatures.

DISCHARGE

- Discharge stations

| Type | Total capacity Lt. | Weight per batch kg (1) | Main motor kW (2) | Tilting motor kW |
|----------|--------------------|-------------------------|-------------------|------------------|
| TRR 150 | 150 | 60 | 11 | 0,75 |
| TRR 300 | 300 | 120 | 18,5 | 1,1 |
| TRR 500 | 500 | 200 | 30 | 1,1 |
| TRR 600 | 600 | 240 | 37 | 1,1 |
| TRR 700 | 700 | 280 | 45 | 1,1 |
| TRR 1000 | 1000 | 400 | 55 | 1,5 |
| TRR 1500 | 1500 | 600 | 75 | 1,5 |
| TRR 2000 | 2000 | 800 | 90 | 2,2 |

NOTE: The data in the table are given merely by way of example and will have to be confirmed by PLAS MEC.

(1) The weights per batch hold for mixer with an apparent density of 0.5 Kg/l.

(2) On request it is possible to apply twin-speed motors with a frequency converter to control the speed of the mixer tool.

DIFFERENT ROTATION SPEEDS

for the bottom blade (slow) and the top blade (fast). Speed ratio 1:8

Optimum dispersion in applications involving a high percentage of pigments.



DUAL MOTOR WITH INFINITE SPEED RATIO

Ability to mix the top phase and the bottom phase in counter-rotation, allowing a wide range of applications and maximum working flexibility.



MIXING CONTAINER AIR EXHAUST SYSTEM

Ability to bleed off pressure from inside the mixing chamber when an air or nitrogen shaft seal is used, connecting to an optional suction filter or central suction system.

No cross contamination.



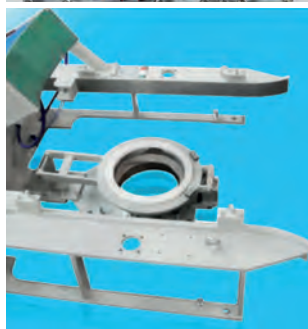
NITROGEN INSUFFLATION + OXYGEN %O2 ATMOSPHERE CONTROL SYSTEM

Neutralization of mixing chamber when using potentially explosive materials.



MIXING CONTAINER CONNECTION AND UNLOADING STATION

Allows unloading with an automatic powder-sealed and safe container emptying procedure.



USE EXISTING CONTAINERS

Machine designed to use existing containers manufactured by use, and to specific customer requirements.



SPECIAL MIXING CONTAINERS FOR SMALL BATCHES

Special design to allow mixing of small batches (-50%) without compromising the mixing quality and increasing flexibility.



TOUCH SCREEN OPERATING PANEL

Different mixing programs and cycles (recipes) can be used without having to use the operator control panel.



MIXING CONTAINER CONNECTION AND LOADING STATION

Allows loading of the container and optional weighing of the various components to be mixed.



LIQUID INJECTION AND RELEVANT DOSING SYSTEM

A special injector allows ideal absorption of liquid components into the mix.



**CONTAINER WASHING STATION
USING PRESSURIZED
HOT/COLD WATER**

Optimum cleaning and drying
of the container.



BOTTOM BLADE LIFTING SYSTEM

Allows better cleaning of the bottom
of the bowl and the bottom blade,
particularly indicated when various
pigments are to be used.



**MIXING HEAD WITH
DOUBLE SLEEVE**

Allows cooling of the material
to prevent it from reaching
danger levels.

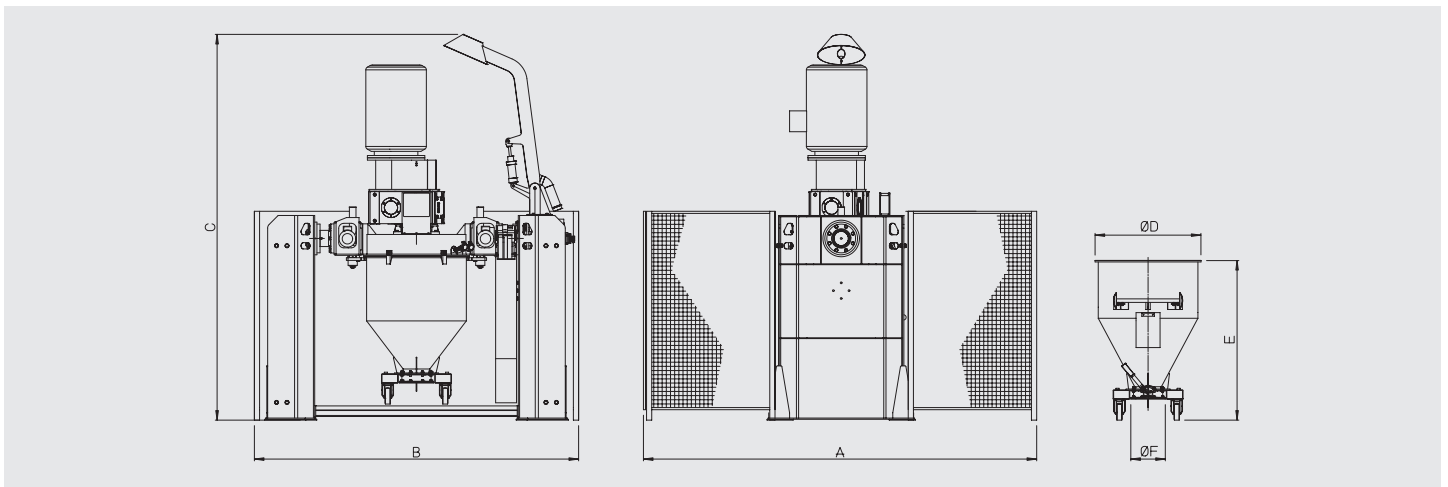


**HEAT EXCHANGER FOR
CIRCULATION OF COOLING H₂O**

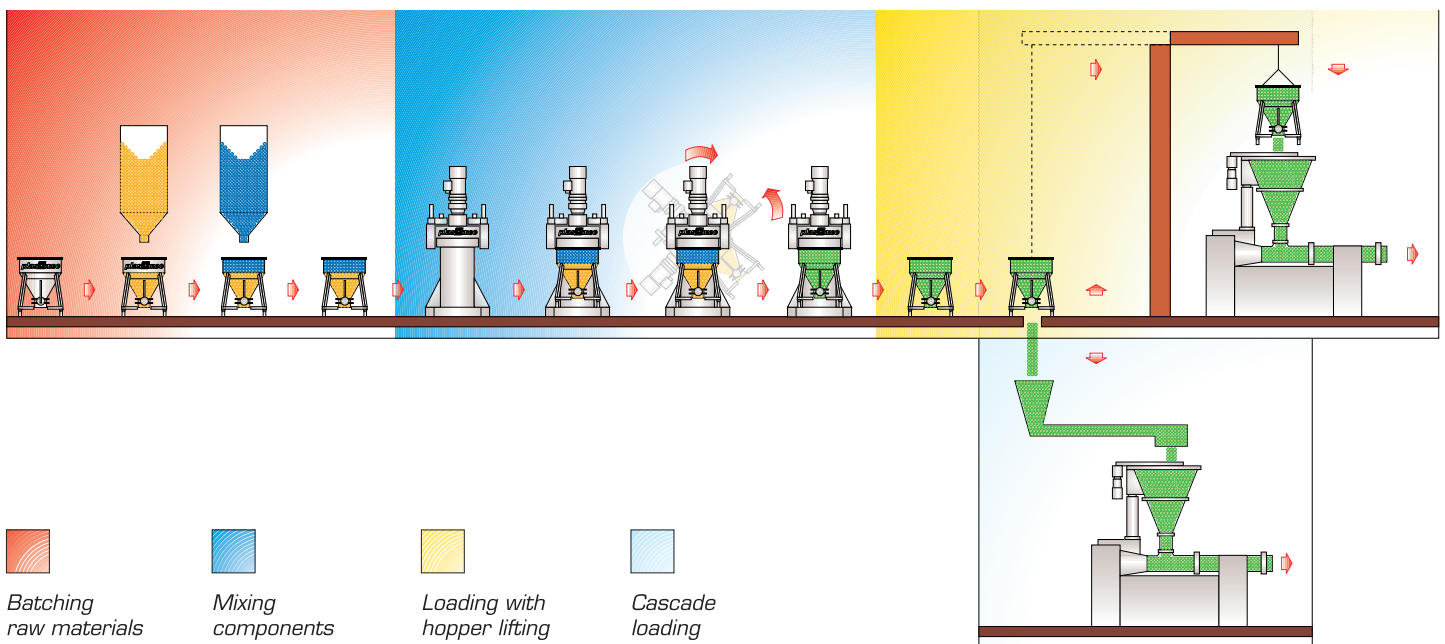
Keeps the water supply circuit separate
from the cooler jacket, preventing
material/calcium carbonate/dirt from
depositing inside the jacket.



| Dimensions | A | B | C | D | E | F |
|------------|------|------|------|------|------|-----|
| TRR - 150 | 4200 | 2765 | 3275 | 715 | 1000 | 250 |
| TRR - 300 | 4200 | 2765 | 3450 | 865 | 1200 | 250 |
| TRR - 500 | 4700 | 3100 | 3715 | 1015 | 1420 | 250 |
| TRR - 600 | 4750 | 3100 | 3850 | 1015 | 1530 | 250 |
| TRR - 700 | 4750 | 3250 | 4050 | 1065 | 1600 | 250 |
| TRR - 1000 | 5300 | 3500 | 4050 | 1276 | 1544 | 300 |
| TRR - 1500 | 6100 | 4000 | 4800 | 1486 | 1900 | 300 |
| TRR - 2000 | 6100 | 4200 | 4900 | 1626 | 1900 | 300 |



Mixing process, transfer and loading



PVC DRY BLEND, POWDER COATINGS, MASTERBATCH AND PIGMENTS, THERMOPLASTIC RUBBERS, WOOD PLASTIC COMPOSITES AND MORE...

PLAS MEC S.R.L. Mixing Technologies

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