

## TWIN SHAFT PADDLE MIXERS RMW

### Twin shaft paddle mixers / conveyors

#### MACHINE DESCRIPTION

**R.E.M.** range of twin shaft paddle mixers, are made of stainless steel and completed with paddles installed on shafts.

The peculiarity of this type of mixers is a shaftless section at the loading endside which does both the feeding system and the support of the mixer itself. The design of the paddles is studied to improve the sludge/lime mixing and conveying ability of the machine; mixers are made of the following sections:

- **Transport section.**
- **Mixing section.**
- **Discharge.**
- **Drive.**
- **Support**

**R.E.M.** offers this type of machine, that can treat the following materials:

- **dewatered sludges.**
- **floating substances from civil or industrial plants.**
- **waste deriving from food processing (both animal and vegetable foodstuffs).**

#### WORKING LOGIC FOR TWIN SHAFT PADDLE MIXERS RMW

**REM RMW** are twin shaft mixers featuring 2 counter-rotating rotors fitted with paddles. Paddles have an adjustable inclination to adjust the process of mixing enhancing the mixing effect of the throughput.

The counter-rotating set-up allows to convey the sludge toward the center of the mixer and have an exchange between the right and left side of the mixer itself increasing the mixing efficiency.

The shallow design and the possibility to install the mixer on an angle allow to install the mixer in confined spaces. The 2 rotors also allow to convey the material.

An extended version version of the mixer will consequently allow to have a longer mixing time and some conveying facility too. **RMW** mixers are mostly used for:

- **Dry or humid solids (but still pileable).**
- **Sludges at minimum 18% DS.**

The main advantages are:

1. **Possibility to handle and mix material of different nature or source and not constant over time.**
2. **Easy maintenance and cleaning.**
3. **Short mixing time.**
4. **Shallow construction.**
5. **Conveying and mixing at once.**



#### MAIN FEATURES FOR TWIN SHAFT PADDLE MIXERS RMW

**RMW** twin shaft paddle mixers are offered in several versions and materials of construction depending on the material nature. The main characteristics are:

1. Standard execution in mild steel, st. st. AISI 304/AISI 316 (optional).
2. Inlets and outlets having shape in reference to the layout of installation.
3. Twin shaft paddles mixer made of high resistance micro-alloy carbon steel, st. st. AISI 304/316 (optional).
4. No mechanical parts in direct contact to mixed and conveyed product.
5. Low speed - No blocking or clogging even when fibrous materials has to be mixed and conveyed.
6. Entirely sealed unit for leakage and odour-free environments.
7. Possibility to discharge in bags.
8. Ease of conveying of not-free-flowing materials.
9. Complete absence of emission of bad smells, as equipped with closing covers.
10. Minimum overall dimensions and maximum versatility, high processing outputs.
11. No nuisance or emissions.
12. Perfect mixing of the materials (even liquids as option).
13. Easy and quick maintenance.
14. Low power consumption.
15. Tungsten carbide coated paddles.
16. HDPE liner of the mixer chamber.

## GENERAL DIMENSIONAL DATA FOR TWIN SHAFT PADDLE MIXERS RMW

The data in the chart are to be considered approximate; since the machine is able to process materials of different types and therefore of different organic compositions, take these values as illustrative references that must be clarified and requested from our Engineering - Sales department.

RMW MODELS	A min. - mm	A max. - mm	B - mm	C - mm	Flowrates m <sup>3</sup> /h	CAPACITY RATE ANGLE 30° MAX.
RMW200	1000	15000	400	255	3	60%
RMW250	1000	20000	520	305	6	60%
RMW300	1000	20000	620	365	12	60%
RMW400	1000	22000	780	488	18	60%
RMW500	1000	22000	980	608	25	60%

ATTENTION THE MACHINE CAN BE USED IN THE INCLINATED POSITION UP TO A MAX. OF 15°

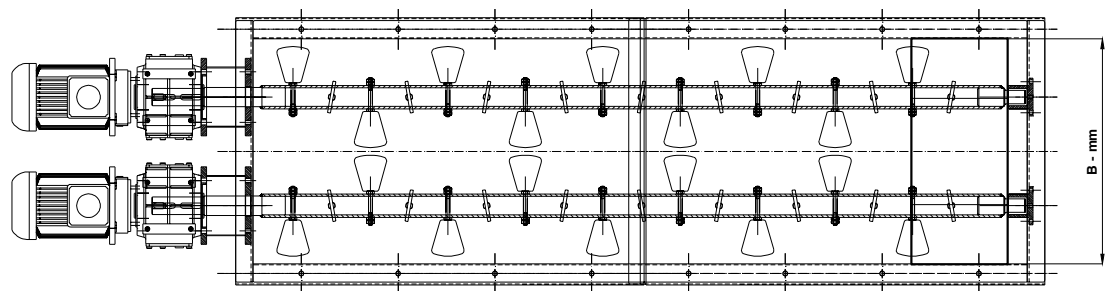
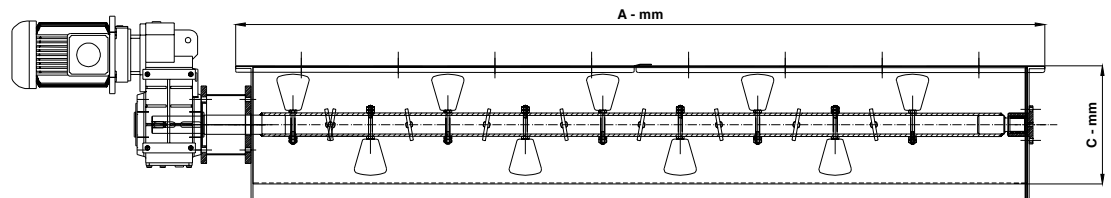


## Fabricated parts material:

- \*Stainless Steel AISI304
- \*Stainless Steel AISI316

## Shaft paddle mixer material:

- \*Stainless Steel AISI304
- \*Stainless Steel AISI316
- \*High resistance steel HRS



n.b.: the manufacturer may modify some dimensions or sizes without prior information