

Biorotor Mixer

Blades Continuous



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Rate: 4 to 34 m³/hr.

Objectives: homogenization and mixing of dry or wet materials

SIMULTANEOUS CONVEYING AND MIXING OF TWO OR MORE PRODUCTS

PALAMATIC PROCESS continuous mixer with overlapping blades is ideal for homogenization and mixing of dry or wet materials.

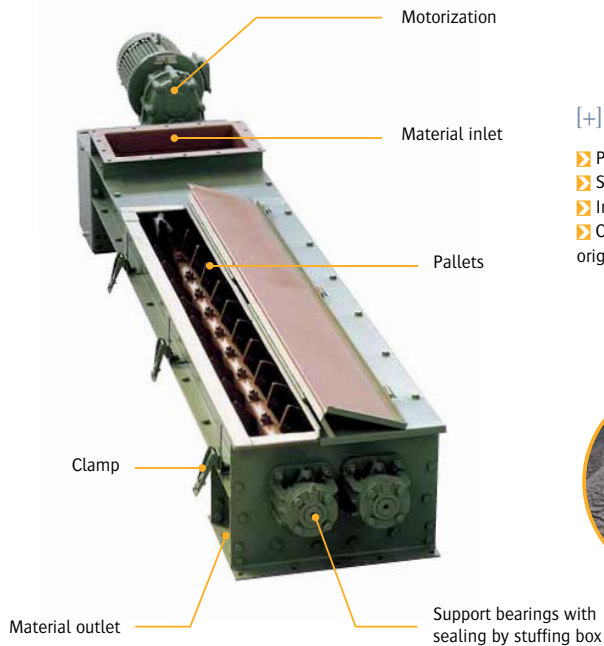
These machines, of simple and robust design, are fitted with double parallel rotors and ensure the mixing of two or more materials but also their conveying during the mixing process. These mixers are ideal to carry out neutralization of sludge with lime, moistening of dust, extinction of quicklime etc...

TECHNICAL SPECIFICATIONS

- Possibility to add up to 20% of liquid material
- Robust mixing tank made of carbon steel or stainless steel 304 L/316 L
- Trough shaped tank with bolted or welded flanges
- Gasket at the passage of the shaft supporting the rotor, external bearings
- Driven by gear motor with hollow shaft or coupling

OPERATING MODE

Double shaft mixers with blades BRPC are adapted to dust mixing, granulation, neutralization of sludge and moistening of dust, ash or sludge. The overlapping of the blades and the adjustment of their inclination ensure a very good adaptation to the products to be mixed. The continuous mixer is made of a tank which contains two parallel rotors fitted with blades which intersect during operation thus covering the entire surface of the trough. The start of the mixer is also possible when fully loaded.



[+] Most common application

- ▶ Powder handling
- ▶ Sludge granulation
- ▶ Inerting of sewage sludge
- ▶ Conditioning of dust, ash and sludge of industrial origin (metallurgy, fly ashes)



▶ This mixer enables sludge handling with quicklime or dead lime.

The horizontal shaft continuous mixers consist of:

- a mixing vessel equipped with a filling mouth
- a discharge mouth
- two mixing rotors
- two-end closure plates
- detached end bearings with passage of the shaft by packing gland
- gear units with power transmission



▶ Homogeneous conveying and mixing



▶ Self-cleaning rotors thanks to overlapping blades



▶ Adjustable blades with or without wear protection



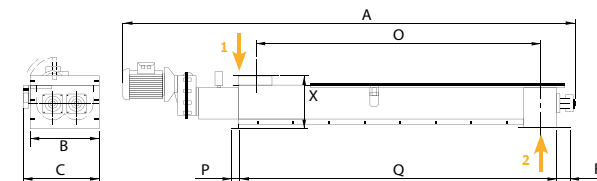
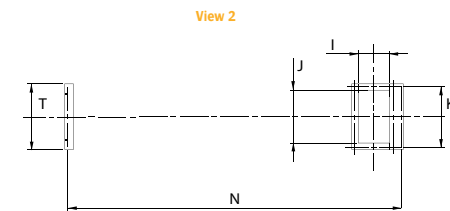
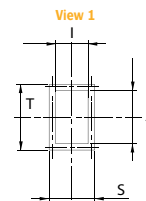
▶ Powers adapted to demand

Advantages



DIMENSIONS in mm.

Models	A	B	C	I	J	K	N	O	P	Q	R	S	T	X	Installed power in kW	Rate in m ³ /h.	Kg	
BRPC 200	3.180	522.5	528	225	390	445	2.349	2.003	56	2.228	96	311	476	390	1.5	2.2	4 to 6	400
BRPC 300	4.414	742.5	755	325	595	655	3.439	3.004	70	3.329	100	433	703	540	3.0	4.0	7.5 to 12	700
BRPC 400	5.181	922.5	905	425	745	815	4.083	3.504	80	3.929	134	533	853	675	5.5	7.5	15 to 24	870
BRPC 500	5.934	1.147.5	1.130	525	950	1.027	4.679	4.004	90	4.529	120	653	1.078	870	7.5	15.0	25 to 34	1,050



Options



Antiwear coating



Liquid additive system

Sludge Processing Facility

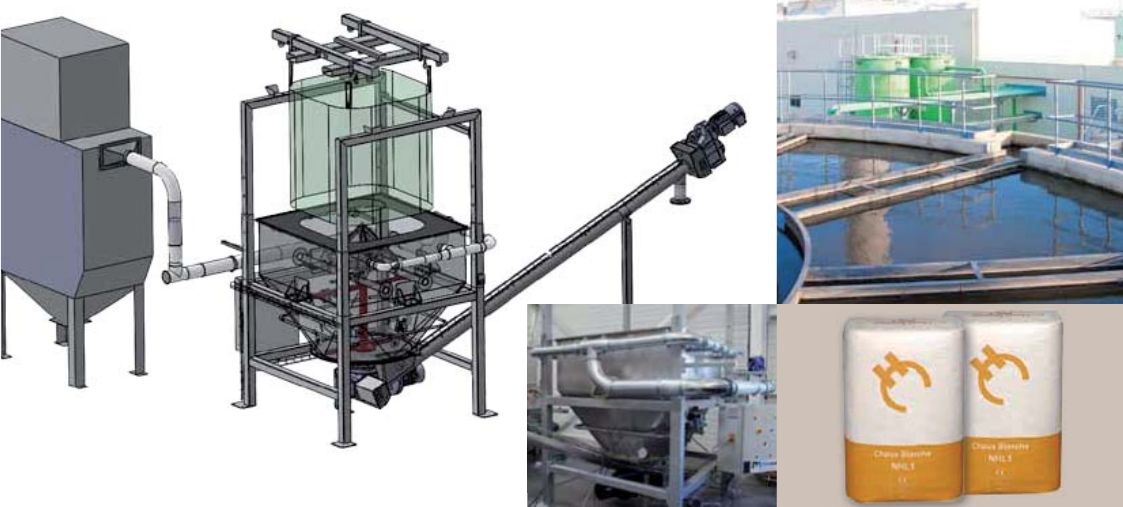
SLUDGE INERTIZATION PROCESS

Typical diagram of a sludge liming facility.

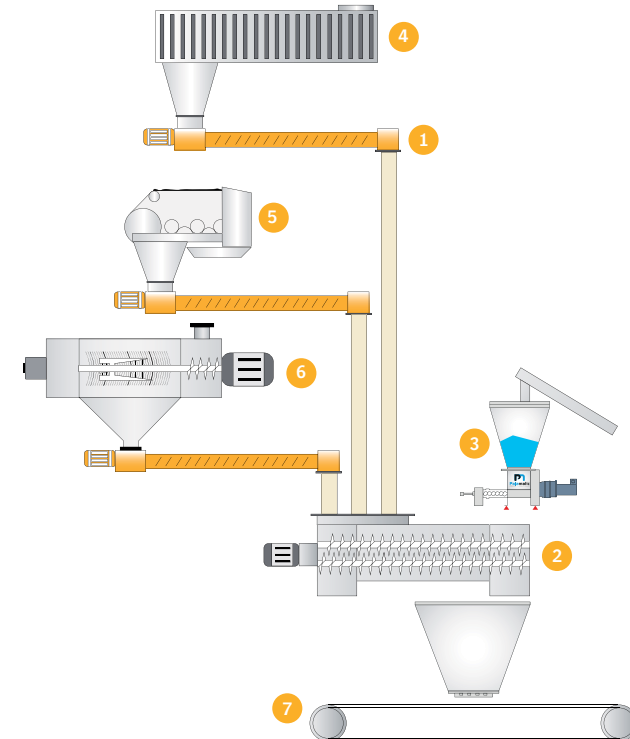


PALAMATIC PROCESS designs mixing tanks for preparing lime milk or activated carbon slurry. Our offer includes the incorporation of carbonate in smoke ducts, activated carbon dispersion or urea dissolution. The stirring methods we offer are various: homogenization, dissolution, suspension, dilution, flocculation...

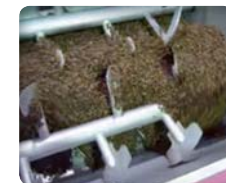
- ▶ Lime milk preparation
- ▶ Urea Dissolution
- ▶ Activated carbon treatment
- ▶ Sludge processing/Conveying/Storage/Cooling
- ▶ Smoke treatment



Sack discharging and conveying of sewage sludge



1 Screw conveyor



2 Double shaft mixer with blades



3 Dosing system for incorporation of lime



4 Press filter



5 Belt filter



6 Sludge centrifuge



7 Belt conveyor