Birotor Mixer

Capacity: 48 to 5,000 liters **Objectives:** homogenization and mixing of products with different characteristics

The BRP double shaft mixer with blades is a continuous mixer with two parallel tanks, each fitted with blades which promote a homogeneous

The intensive mixing action ensures, even with delicate or very brittle

Blades Discontinuous 🔯



Coefficient of variation reached (CV): less than 3% Mixing ratio: 1/100,000

High homogeneity (CV < 5%)

Bearing end with rotor sealing group in various versions with optional air or gas pressurization

Double bomb bay discharge

Robust mixing tank made of carbon steel or

304 L stainless steel

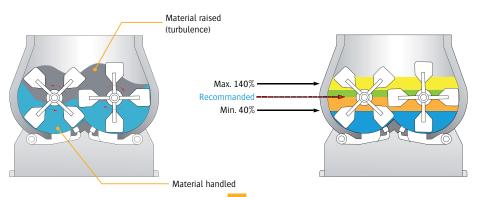
The BRP batch mixer is used for dry solids (powders, granulating, coating), as well as for liquid and low-vis-





OPERATING MODE

The horizontal rotors, which rotate in opposite directions, create a fluidization zone which ensures accurate mixing of products. The fluidization zone is generated by combining two technologies, the first in turbulence and the second in conveying. In these fluidized zones, powders and granules are dispersed optimally within a very short time. The double shaft mixer with blades, BRP, guarantees high performance in terms of homogeneity and mixing speed.





Shorter discharge time due to double discharge mouth



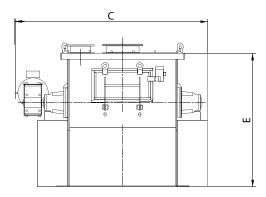
Low residue (0-5.5% of the

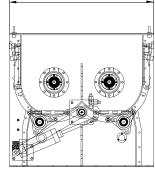






DIMENSIONS in mm.





	С	D	E	Nominal volume		g capacity itres	
				in litres	Min.	Max.	
BRP 120	1,484	1,059	1,004	120	48	168	Possibility to manu- facture tanks with a
BRP 250	1,784	1,363	1,104	250	100	350	capacity up to 5,000
BRP 500	2,269	1,835	1,630	500	200		liters
BRP 1000	2,690	2,170	2,036	1,000	400	1,400	
BRP 2000	3,170	2,662	2,373	2,000	800	2,800	

Options



heating/cooling



manufactured in 316 I stainless steel

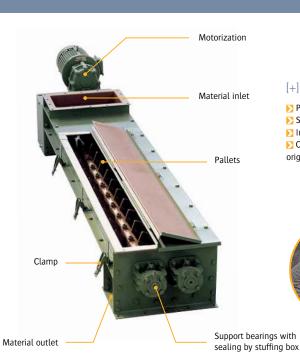
Objectives: homogenization and mixing of dry or wet materials

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...

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,
- Driven by gear motor with hollow shaft or coupling

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 very good adaptation to the products to be mixed. The continuous mixer is made of a tank which contains two 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)



Momogeneous conveying and mixing



Self-cleaning rotors thanks to overlapping blades



Adjustable blades with or without wear protection

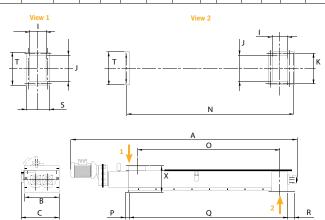


Powers adapted to demand



DIMENSIONS in mm.

Models	Α	В	С	1	J	К	N	0	Р	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



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



This mixer enables sludge handling with quicklime or dead







Liquid additive system

LBirotor Mixer

Sludge Processing Facility

Blades Continuous



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 studge





6 Sludge centrifuge

Belt conveyor