**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 time, moistening of dust, extinction of quicklime etc.

**Advantages**

- 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

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antiwear coating</td>
<td></td>
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<tr>
<td>Liquid additive system</td>
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</tbody>
</table>

**Blades Continuous**

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

- Homogeneous conveying and mixing
- Self-cleaning rotors thanks to overlapping blades
- Adjustable blades with or without wear protection
- Powers adapted to demand

**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.

**Dimensions in mm.**

<table>
<thead>
<tr>
<th>Models</th>
<th>T</th>
<th>S</th>
<th>C</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>X</th>
<th>Installed power in kW</th>
<th>Rate in m³/h</th>
<th>Kg</th>
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</thead>
<tbody>
<tr>
<td>BRPC 200</td>
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<td>522.5</td>
<td>528</td>
<td>325</td>
<td>390</td>
<td>445</td>
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<td>525</td>
<td>595</td>
<td>655</td>
<td>3,046</td>
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<td>1,329</td>
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<td>300</td>
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</table>

**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

**Download videos & layouts from our website:**

www.palamaticprocess.com/powder-machine/powder-mixer/blades-mixer

Support bearings with sealing by stuffing box

Vessel equipped with filling mouth and discharge mouth

Clamp

Material inlet

Material outlet

Pallets

Support bearings with sealing by stuffing box
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

Typical diagram of a sludge liming facility.

Typical diagram of a sludge liming facility.