BT200 Batch Homogenizer - is high-performance dispersing machine for the production of emulsions and suspensions in batch operations. Using the rotor-stator principle, it is best suited for applications that cannot be accomplished using conventional stirring methods. The machine is capable of processing highly abrasive products and media with a viscosity of up to 80,000 mPas. The stator is connected to the motor with a mounting flange and extension rods as the propeller mounted on the rotating shaft generate circulating flowing force for products. Because the rotating shaft seal is located directly on the motor flange, seal contact with the actual product is prevented. The machine design meets specifications for dispersion production in the pharmaceutical industry or for processing of abrasive products in other industries.

### Features & Specification

<table>
<thead>
<tr>
<th>Working Volume (ml)</th>
<th>25 – 5,000</th>
<th>Operating Environment</th>
<th>0-175°C, 95% rel. humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power(kW)</td>
<td>0.37 - 37 - 3 phase Normal or Ex-Proof</td>
<td>Protection class</td>
<td>IP55</td>
</tr>
<tr>
<td>Voltage/ Frequency</td>
<td>380-450V / 50-60Hz</td>
<td>Certified standards</td>
<td>IEC/EN 61000-6-2 / 3,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IEC/EN 61010-2-51 Safety acc.</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>Up to 160°C</td>
<td>Seal type</td>
<td>Teflon Bush Seal (Open System), Lip Seal (150°C) or Double Acting Mechanical Seal (160°C and 15 bar)</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>1,000 – 3,000 bar</td>
<td>Warranty</td>
<td>2 years – spare part due to manufacturing defects</td>
</tr>
<tr>
<td>Speed range (rpm)</td>
<td>1,000 – 3,000</td>
<td>Sterilization Method</td>
<td>All</td>
</tr>
<tr>
<td>Speed control type</td>
<td>2200V/50-60Hz</td>
<td>pH Range:</td>
<td>2-13</td>
</tr>
<tr>
<td>Lifting system</td>
<td>Motorized S/S 304 or Mild Steel epoxy coated</td>
<td>Suitable for solvents &amp; abrasive substances:</td>
<td>YES</td>
</tr>
<tr>
<td>Standard Shaft Length ( mm)</td>
<td>300 – 1650</td>
<td>Ultimate Fineness, Suspensions &amp; Emulsion (μm), Max Viscosity (mPa)</td>
<td>Suspension: 10-15 Emulsion: 1-10, 80,000</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>15-700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Why purchase our homogenizer?

**Excellent Result For Ultimate Fitness**

- Elimination of “Fish Eyes” & “bubbles” within minutes

![Before our batch mixer](image1)

![After our batch mixer](image2)

Achievable Suspension fitness (μm): 20-50,

Achievable Emulsion fitness (μm) : 10-30

**Multiple function in one tank**

By varying the speed and direction of the three mixers – U-anchor mixer, homogenizer, disperser you can achieve four separate operating modes: dispersion, homogenization, deaeration and cleaning.

![Dispersion](image3)

![Cleaning](image4)

![Homogenization](image5)

![Deaeration](image6)

**Unlimited Customer Support**

“Pre-Order Questionnaire” & “Let’s trial Run” programme if you suspect the correct equipment to purchase? Let’s you help us by fill in the questionnaire or you can ship us the samples for trial run! It’s totally “FREE”

Dial our hotline for 7/24 hrs products enquiry online technical support, after sales services and warranty spare parts replacement.

**Equipment Designed Compliance:**

- Pharmaceuticals manufacturing equipment’s guidelines and standards.- Accredited to GMP audits standard

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Please contact us for more info and quote:
Modular "Dyna-Stream" Batch Homogenizer Systems

Choose from shaft-generator assemblies to create the perfect system for your current application—Shaping the homogenizer future!

- Customize your own system by choosing a variable-speed motor and a shaft depending on the viscosity of your sample
- Quick processing protects your samples from heat damage
- Quickly process volumes from 50 to 5,000 mL

A. Motor Drive and Technical Data

Built-in variable-speed controller VFD to lets you adjust speed from 0 to 6,000 rpm. Motors can be mounted on a lantern (vacuum or pressure, may be removed). Stator and rotor system can be custom made to suit your processing requirements.

The 110-120 VAC VFD inverter - US plug; the 220-240 VAC VFD inverter - European plug. User operation manual, accessory kit to open the starter rotor generator.

B. Lifting System Assemblies

The lifting and carriage system can be used in open or pressure-less closed vessels. The variables choice of stand with different system to carry the batch homogenizer suitable weight and cost adapation to customer needs. The flexible choice of stand materials, roller types, height adjustment can be customs made to suit customers individual requirements.

C. Optional Stator-Rotor and Accessories Parts

Replacement for stator generators customize your system to your unique processing requirements. Choose from the below interchangeable stator rotors to add to a shaft-generator assembly or replace the worn generators.

Please contact us for more info and ordering information.

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**Ordering Information**

**What’s included:**

- 5,000L and 80,000 cps. direct mount on tank. To process higher volumes and viscosity up to 0 to 6,000 rpm. Motors can be mounted on a lantern (vacuum or pressure type) or a stand.
- Built-in variable-speed controller VFD to lets you adjust speed from 0.5 to 37.0 up to 3000 rpm. Motor Drive and Technical Data

**B. T200-03~50**

- Model: BT210-0.5~50
- Type: Vacuum or Pressure Tank with lantern
- Seal Type: Single, Double Mech Seal or Lip-seal.

**Warranty & Electricity Compliance:**

- Tested to meet equipment’s manufacturing guidelines and standards
- Equipment compliance: pharmaceuticals
- UL, TUV, CE, FDA, ISPE, E.E.C. Certification

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**Model: BT200-0.5~50**

- Order No.: 171000000
- Motor Power(k W): 0.37
- Application Volume (l): Up to 25
- Speed range (rpm): 3,000
- Standard Shaft Length (mm): 350
- Flange Size (mm): 45
- Max Tip Speed (m/s): 12
- Lantern Flange hole (mm): 4-ø10
- Weight (kg): 22

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**Model: BT200~1.5-50**

- Order No.: 171012000
- Motor Power(k W): 8.81
- Application Volume (l): 1,000-3,500
- Speed range (rpm): 1,000-3,500
- Standard Shaft Length (mm): 650-1650
- Flange Size (mm): 80-350
- Max Tip Speed (m/s): 15-35
- Lantern Flange hole (mm): 8-ø19
- Weight (kg): 585

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**C. Optional Stator-Rotor and Accessories Parts**

Replacement for stator generators customize your system to your unique processing requirements. Choose from the below interchangeable rotor-stator generators to add to a shaft-generator assembly or replace the worn generators.