

BHS Process Drying – Mixing Rental Units

BHS-Sonthofen GmbH

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BHS-Sonthofen Inc.: Charlotte, NC Process Filtration, Drying & Mixing

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BHS-Sonthofen Inc.: Process Technologies



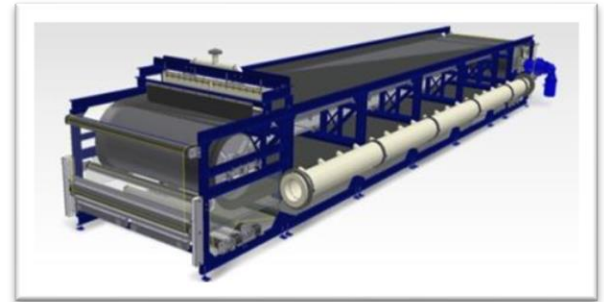
- **BHS Process Filtration**
 - Batch & Continuous
 - Pressure & Vacuum
 - High Solids (50%) to Clarification (<1%)
- **BHS Process Drying, Mixing & Reacting**
 - Batch & Continuous
 - Vertical & Horizontal
 - Bone-Dry Powder
- **BHS Integrated & Optimized Systems**

BHS Process Technology: Filtration-Cake Washing-Dewatering

**Rotary Pressure Filter Continuous-Indexing
Belt Filter**



Rubber Belt Filter



Candle Filter



Pressure Plate Filter



Autopress

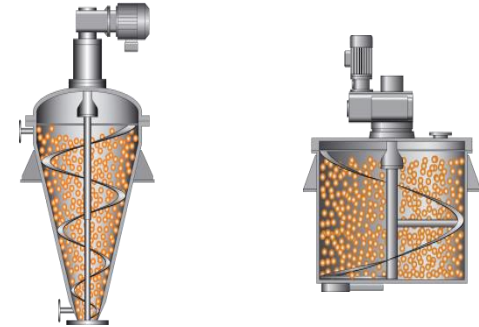
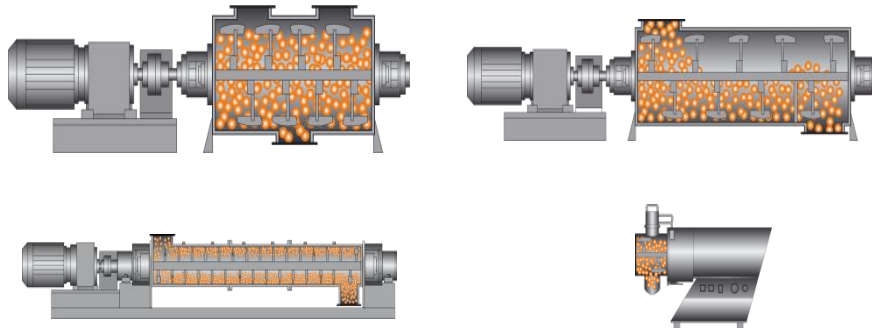


BHS Process Technology: AVA Dryers, Mixers & Reactors

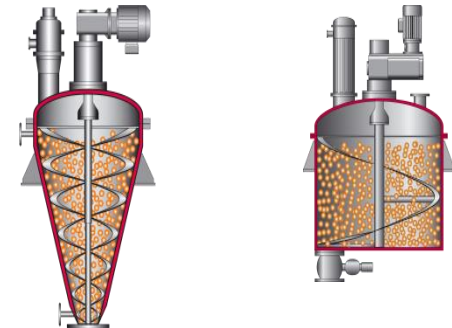
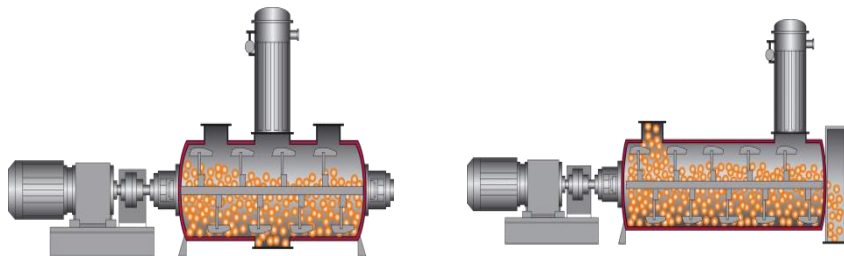
Batch / Continuous Horizontal
Capacities to 60,000 liters

Batch / Vertical
Capacities to 60,000 liters

Mixers



Dryers



Design Conditions: FV to 30 bar; -30°C to 700°C

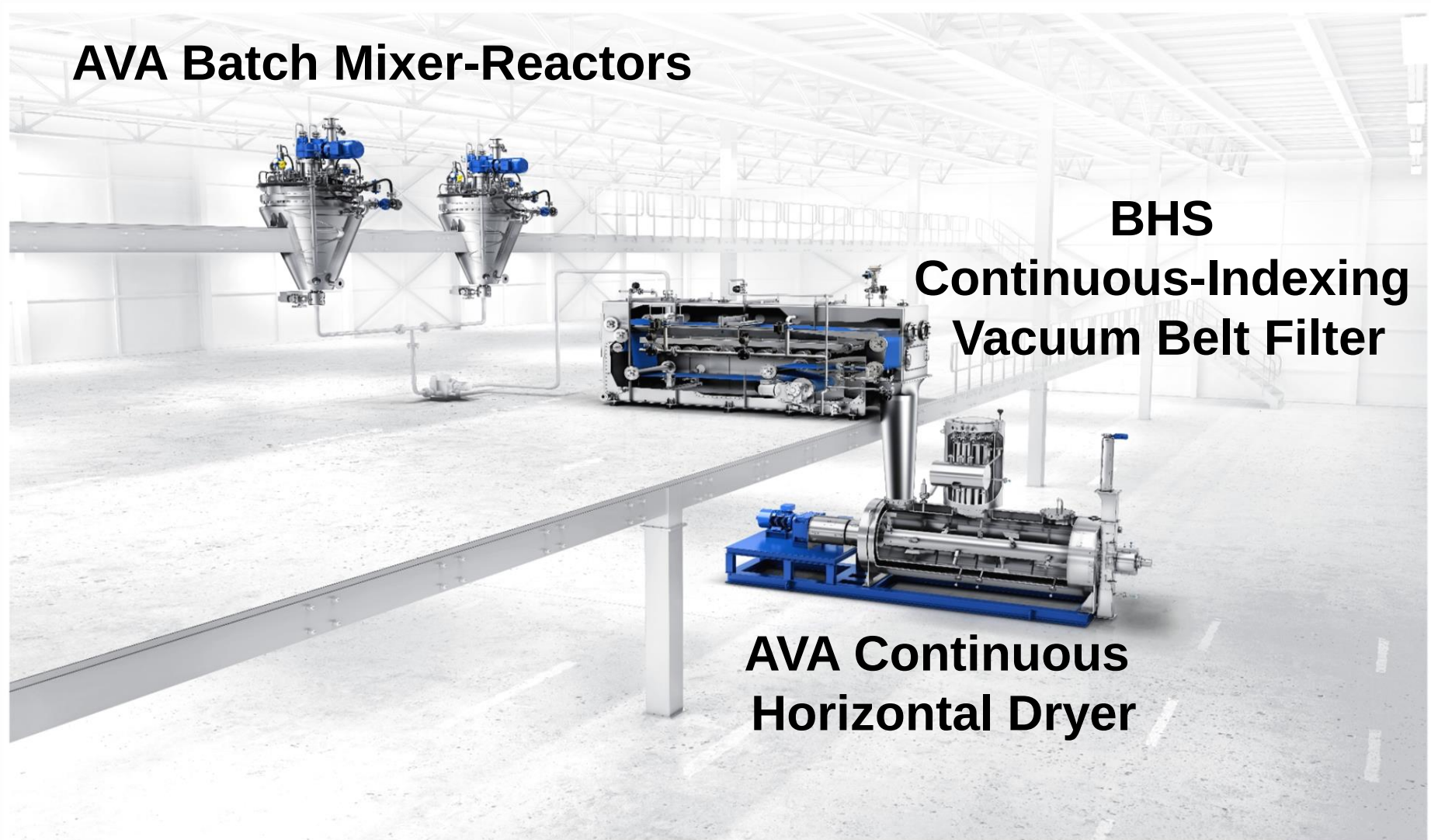
BHS INTEGRATED & OPTIMIZED DESIGNS

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AVA Batch Mixer-Reactors

**BHS
Continuous-Indexing
Vacuum Belt Filter**

**AVA Continuous
Horizontal Dryer**



BHS HORIZONTAL DRYER

AVA MODEL HTC-VT 140



HTC-VT 140 – Horizontal Dryer

Wetted Materials: 1.4404 stainless steel (316 L)

Specifications:

- Max Batch Volume: 100 L
- Design Pressure Vessel: -1 / 6 bar g
- Volume Vessel Jacket: Approx. 24 L
- Design Temperature: +5 / 350°C
- Electrical Classification:
 - Motor and Instruments: Class 1, Div. II
 - Controls & Ancillary Components: Unclassified
- Empty Weight: 1,600 kg

BHS VERTICAL DRYER

AVA MODEL HWV-VT 100



HWV-VT 100 – Vertical Dryer

Wetted Materials: Hastelloy C-22 (2.4602)

Specifications:

- Max Batch Volume: 100 L
- Design Pressure Vessel: -1 / 4 bar g
- Design Temperature: -10 / 150°C
- Electro-polished: 0.2 um
- Electrical Classification:
 - Motor and Instruments: Class 1, Div. II
 - Controls & Ancillary Components: Unclassified
- Empty Weight: 1,800 kg

BHS HORIZONTAL RING-LAYER MIXER AVA MODEL HRM-10



HRM-10 Horizontal Ring-Layer Mixer

Wetted Materials: 316L stainless steel

Specifications:

- Max Batch Volume: 10 L
- Design Pressure Vessel: Atmospheric
- Design Temperature: 5 / 200°C
- Electro-polished: 0.8 um
- Electrical Classification: XP
- Empty Weight: 200 kg

BHS Small-Scale Process Units for Filtration & Drying/Mixing/Reacting



0.3 m2 BHS Vacuum Belt Filter



50-liter AVA Dryer-Mixer-Reactor



Summary: BHS Process Solutions



- **Process Design with lab and pilot testing**
- **BHS Process Technologies:**
 - **Filtration, Cake Washing & Dewatering**
 - **AVA Drying, Mixing & Reacting**
 - **Continuum Systems**
- **Project & Process Engineering**
- **Complete Turnkey Technology Systems:**
 - **Filtration & Drying with PLC Controls, Tanks, Pumps, Piping/Wiring, Structures**
- **Performance Guarantees & Testing**
- **Commissioning, Spare Parts & Service**

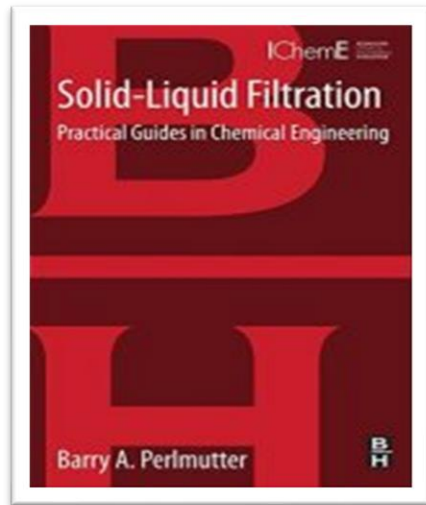
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BHS Blog: <https://perlmutterunfiltered.com/>

BHS Book: **Practical Guides in Chemical Engineering:
Solid-Liquid Filtration
Published by Elsevier**



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