

# **BEE** INTERNATIONAL

NEXT GENERATION HOMOGENIZERS



# DeBEE 4000 Series

## Automation, Compliance and Production Capacity Ultra-High Pressure Homogenizer

- Scaled to meet capacity, process and regulatory requirements
- Efficient continuous operation
- Built for 24x7 operation
- Suitable for:
  - Micro and nano emulsions and dispersions
  - Biotech and pharmaceutical cell lysis

***Unmatched Results in Fewer Passes***

# DeBEE 4000 Series

## Efficient Continuous Manufacturing

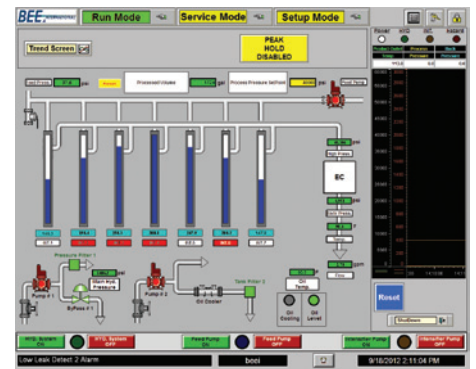
DeBEE 4000 high pressure homogenizers employ a unique fluid mechanical process. Scale up is guaranteed so the same results achieved on our laboratory systems can be mass produced.

Systems are custom build to meet capacity, process, and industry requirements suitable for a wide range of applications.

- cGMP, CE, CFR 21 Part 11
- Electronic signatures
- User management
- Audit trail
- Data collection
- SCADA
- Plant integration ready
- Clean in Place

### Monitoring

- Real time schematic
- Trend screens
- Alarm messages, tower light and sound indicators
- Color touchscreen



### Maintenance

- Menu guided maintenance and calibration
- Programmable maintenance schedule and alarms
- In-line spare intensifier

Systems are assembled from decades proven, off the shelf industrial components and multiple units of our proprietary high pressure homogenizing.

Modular design scales to large capacity using standard components with proven performance and reduces delivery time.



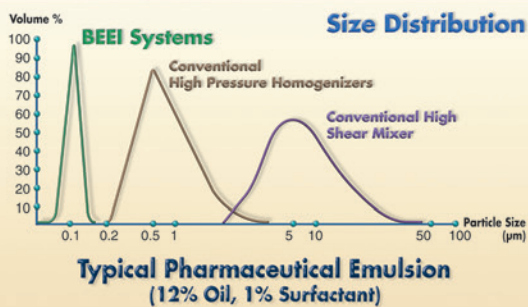
We're in business to help your business succeed and this is reflected in our dedication to service. We offer:

- Product testing
- Process consultation
- Validation services
- Training
- Spare parts
- Preventative maintenance

EMULSIFYING  
RUPTURE  
DISPERSING  
GRINDING

BEE International is dedicated to advancing the technology of homogenization. Our research and development is ongoing.

Customers worldwide depend on our precision engineering, quality manufacturing and service.



Contact us for free consultation, and confidential, no obligation product testing.



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