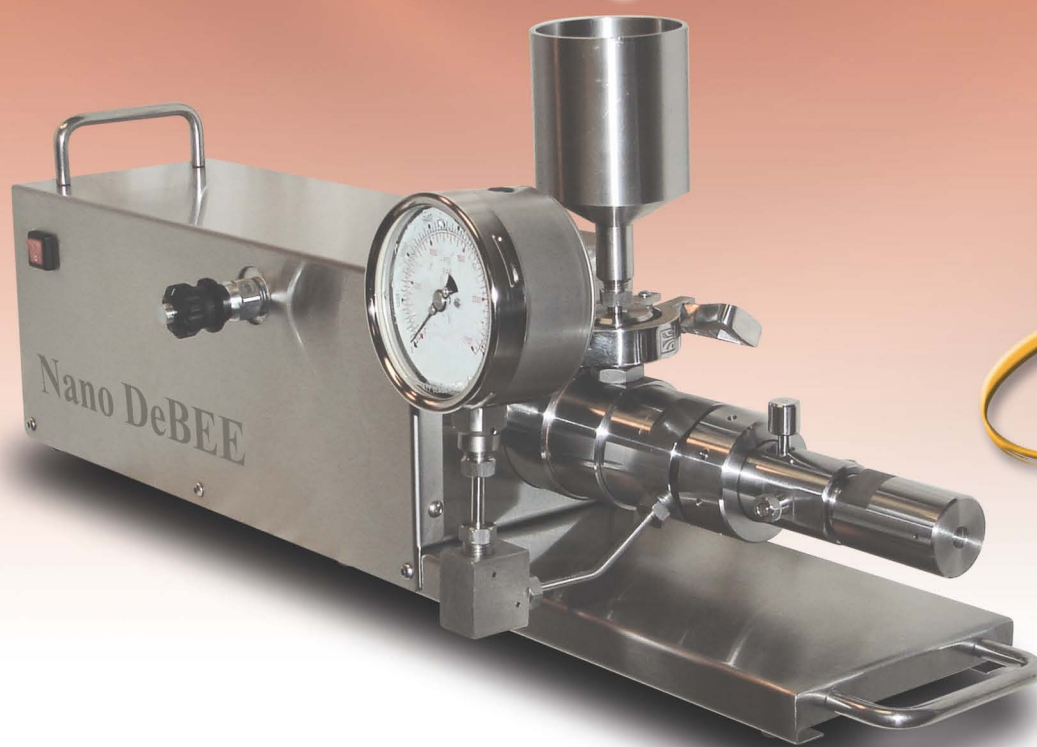


# Nano DeBEE

**BEE**  **INTERNATIONAL**  
NEXT GENERATION HOMOGENIZERS

EMULSIFYING  
CELL RUPTURE  
DISPERSING  
GRINDING



Patented  
Technology

## Electric Benchtop High Pressure Homogenizer

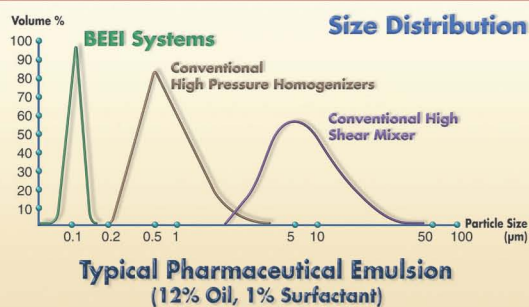
- Stable micro/nano emulsions and dispersions
- Cell rupture
- Bacteria reduction
- Micro/nano encapsulation
- Deagglomeration

*Unmatched results in fewer passes*



EMULSIFYING  
CELL RUPTURE  
DISPERSING  
GRINDING

We're experienced with every nuance of high energy product processing. Unlike any homogenizer before, the Nano DeBEE gives you the highest process intensity in the industry and our patented modular homogenizing cell. You now have independent control of pressure, flow, cavitation, impact, shear, *and* process duration. Now you can fit the machine to your application and get the results you want *fast*.



BEE INTERNATIONAL is dedicated to advancing the technology of homogenization. Our research and development is ongoing, and you can depend on our precision engineering, quality manufacturing and worldwide service for the highest reliability.

Contact us for FREE consultation and confidential, no obligation sample testing.

**BEE** INTERNATIONAL  
NEXT GENERATION HOMOGENIZERS

BEE INTERNATIONAL, INC.  
46 Eastman Street  
South Easton, MA 02375

Phone: 508-238-5558  
Fax: 508-238-3860

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Web: www.bee.com

# Nano DeBEE

The highest processing energy in an electric bench-top unit

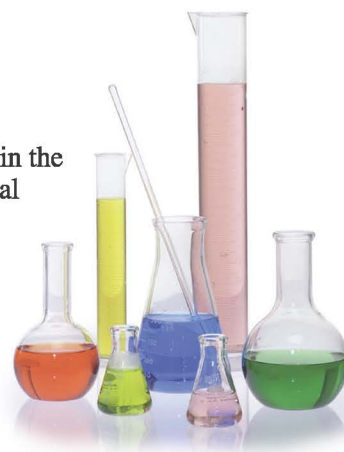
An invaluable formulation tool, the Nano DeBEE allows developers to easily adjust a wide variety of parameters to ensure the optimum process for unprecedented results.

## BEE International's innovative homogenizing technology is:

- Easy to use and clean
- 100% scalable
- Designed to produce:
  - A tighter distribution of results
  - Maximum particle size reduction
  - Increased product stability
- Suitable for a wide variety of applications in the pharmaceutical, biotech, cosmetic, chemical and food industries

## Experimentation options include:

- Parallel flow - cavitation, less shear and impact
- Reverse flow - maximum shear, cavitation and impact
- Short or long process time
- Variety of processing nozzle sizes and reactors
- Vary operating pressure



## Specifications:

- Maximum operating pressure 30 KPSI / 2000 bar or 45 KPSI / 3100 bar
- Flow Rate: 70 or 120 ml/min
- Minimum sample size 12 ml
- Heat exchanger and back pressure options
- Maximum product inlet temperature: 75°C / 167°F
- Dimensions:
  - Benchtop unit: 31x8x9 inch, 45 lbs. / 78x20x23 cm, 20 kg
  - Separate floor power unit: 16x16x26 inch, 88 lbs. / 41x41x68 cm, 40 kg

