

# Mini DeBEE

**BEE** INTERNATIONAL  
NEXT GENERATION HOMOGENIZERS

EMULSIFYING  
CELL RUPTURE  
DISPERSING  
GRINDING



## **Ultra-High Pressure Homogenizer** High Capacity for R&D

- Cell rupture with the highest yield
- Particle size reduction
- Stable micro / nano emulsions & dispersions
- Guaranteed scalability

***Unmatched Results in Fewer Passes***



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We're experienced with every nuance of high energy product processing. Unlike any homogenizer before, the Mini 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.

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NEXT GENERATION HOMOGENIZERS

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# Mini DeBEE

## An Essential Tool for Effective Experimentation

A leader in process technology, the Mini DeBEE combines a variety of mixing tools into one advanced instrument. With unique process setups you can select the intensity and force of mixing parameters:

- Cavitation
- Shear
- Impact
- Pressure
- Back-pressure
- Process duration

Proven to achieve industry leading results for **cell lysis, nano emulsions and dispersions, and particle size reduction**:

- High yield cell lysis
- Extend product stability
- Improve Bioavailability
- Tighter particle size distribution

## The Mini DeBEE is easy to use:

- PLC Control and monitoring for easy operation
- Highest process intensity in the industry
- Easy cleaning and maintenance
- Low cost replacement parts
- 100% Scalable



|                | Pressure   | Flow Rate                              |        |          |
|----------------|------------|--|--------|----------|
|                |            | mL / min                               | L / hr | gal / hr |
| Mini DeBEE 30  | 30,000 PSI | 400                                    | 22     | 6.3      |
|                | 2,000 bar  |  |        |          |
| Mini DeBEE 45  | 45,000 PSI | 400                                    | 22     | 6.3      |
|                | 3,100 bar  |  |        |          |
| Dimensions     |            | 140 x 51 x 76 cm H / 55" x 20" x 30" H |        |          |
| Weight         |            | 250 kg / 552 lb                        |        |          |
| Minimum Volume |            | 30 mL with Small Volume option         |        |          |

