

# Hand Drive, Mini High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

## Unique Benefits:

- **Budget-Friendly Mini Homogenizer**
- **Portable design deliver the light weight and small dimensions**
- **Pressure up to 30,000 psi (2,070 bar)**
- **Manual Operation:** No need compressed air or electricity
- **CE Compliant**



The HandGenizer is an environmentally and budget-friendly mini homogenizer compared to hydraulic or pneumatic liquid processors. It's a manual homogenizer that is hand-operated by moving the handle up and down to generate high pressure on samples. Additionally, it requires no PLC control system, no electricity and is ideal for simple experimental tasks, especially when dealing with small amounts of liquid nano-emulsions.

The mini pump of the HandGenizer is designed to supply the desired pressure to the product stream. When lifting the pump handle, a small portion of the sample will be drawn into the mini-pump body. By moving the pump handle way down to create a high-pressure profile (max. 30,000 psi) to the sample stream, this portion of the sample will pass through the check valve and through the Genizer Y-Type Diamond Interaction Chamber. It then exits the outlet and is collected.

## Specifications

Catalog No.	HG-10K	HG-15K	HG-20K	HG-25K	HG-30K
Max. Pressure	10,000 psi	15,000 psi	20,000 psi	25,000 psi	30,000 psi
Mini Sample	3mL	3mL	3mL	3mL	3mL
Flow Rate	10mL~30mL/min (base on the operator operational strength)				
Dimensions	25×40×50(cm)				
Weight	15 kgs (33 lbs)				
Power Source	Hand Drive, requires no PLC control system, no electricity or compressed air source				
Cleaning	Flush to clean				



Phone: +1(949) 932-0294  
Fax : +1 (323) 978-4693  
Email: Nano@Genizer.com  
[https://www.genizer.com/handgenizer-laboratory-hand-drive\\_p0009.html](https://www.genizer.com/handgenizer-laboratory-hand-drive_p0009.html)

Discount available for public research. Genizer.com reserves the right to change specifications without notice. © 2022 by Genizer. All rights reserved. English Version 091620.

# Hand Drive, Mini High Pressure Homogenizer



Genizer Y-Type DIX Chamber



Liposome Applications

## Standard Features

<i>Including Parts</i>	<ol style="list-style-type: none"> <li>1) Y-Type diamond interaction chamber</li> <li>2) Genizer sanitary mini pump</li> <li>3) High pressure gauge, G35000</li> <li>4) Inlet, outlet check valves</li> <li>5) 316L stainless piping and tubing</li> </ol>
<i>Applications</i>	Nano emulsions, liposomes
<i>Inlet</i>	1/4" HP coupling
<i>Outlet</i>	1/4" HP coupling
<i>Feed Reservoir</i>	20mL syringe
<i>Collection</i>	20mL syringe
<i>Spare</i>	Spare O-ring packs, spare check valves
<i>Warranty</i>	1 year against any manufacturing defects

## Available Options

<i>Available Parts</i>	<ol style="list-style-type: none"> <li>1) Y-Type diamond interaction chamber with cooling</li> <li>2) Genizer online liposome extruders</li> <li>3) G58000, high pressure gauge</li> <li>4) 316L stainless heat exchangers</li> <li>5) Track-Etched liposome filter membranes</li> </ol>
------------------------	--

<i>Chamber Type (Diamond)</i>	<ul style="list-style-type: none"> <li>Interaction chamber (Microfluidizer)</li> <li>Static Homogenizing Valve (Avestin)</li> <li>Cavitation Chamber (BEE without EC)</li> <li>Impact Chamber (Most manufactures)</li> <li>Membrane extruder (Millipore)</li> </ul>
<i>Detector</i>	Pressure gauge, Pressure and Temp. transducer
<i>Feed Reservoir</i>	10mL, 20mL, 50mL, 100mL, 200mL, 500mL Syringe, Cylinder, Tank or Online
<i>Warranty</i>	1 year against any manufacturing defects



HandGenzier Combines with Genizer Online Liposome Extruder (GOE)

