

**Simplicity at your  
fingertips!**



# ShearJet® HL60

## ELECTRIC HYDRAULIC HIGH SHEAR HOMOGENIZER

FOR SMALL VOLUMES STARTING AT 3 ML AND CERTIFIED PROCESSES

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## Electric Hydraulic High Shear Homogenizer



The Dyhydromatics ShearJet HL60 is a first-of-its-kind unit that allows the operator to process multiple samples with ease.



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### Specifications:

Sample size:	3 ml to 100 ml (minimum with syringes 2 ml, minimum with cooling jacket 5 ml)
Pressure:	5 - 30 Kpsi (345 - 2,068 bar)
Stroke:	1 ml
Output:	65 ml/min at 30 Kpsi (345 - 2,068 bar)
HMI:	Touch screen
Power:	Electric hydraulic 220 VAC
Dimensions:	28" x 16" x 24" (71,1 x 40,6 x 61,0 cm) Small foot print saves valuable lab space!
Quite operation:	Noise levels below 70 decibels
Operating time:	System can run anywhere from seconds to hours.

### Areas of application:

Applications:	Nanoemulsions, nanodispersions, nanosuspensions, liposomes, polysaccharides, de-agglomeration, encapsulation, cell rupture
Industries:	Pharmaceutical, personal care, chemical, biotech and food

### Features:

HMI:	<ul style="list-style-type: none"> <li>Allows operator to set process duration in pulse mode. System stops automatically when completed.</li> <li>Cycle mode runs continuously until operator stops process.</li> <li>Calibrate pressure set points based on reaction chamber type.</li> <li>Data acquisition allows for the operator to capture pressure, temperature and process duration.</li> </ul>	
Standard Features:	<ul style="list-style-type: none"> <li>Diamond Reaction Chamber® for longer life and wear resistant to abrasive applications</li> <li>Glass reservoir 100 ml with sanitary connection</li> <li>Two 10ml syringes</li> <li>Lure lock connections</li> </ul>	<ul style="list-style-type: none"> <li>HP to barb adapter</li> <li>Simple feed jacketed helicoil heat exchanger</li> <li>Ceramic plunger</li> <li>Tycon tubing</li> <li>Tools &amp; spares</li> </ul>
Optional features:	<ul style="list-style-type: none"> <li>Thermocouple</li> <li>Stainless steel reservoir 100 ml with or without recirculation</li> <li>100 ml glass reservoir with recirculation</li> <li>Inline pressure transducer</li> <li>Optional spare parts</li> <li>Chiller for cooling product heat exchanger</li> </ul>	<ul style="list-style-type: none"> <li>Pharmagrade product contact parts</li> <li>Gaskets and O-rings in Viton, Telfon, Kalrez, Buna, EPDM, and EPR</li> <li>Onsite installation and operator training</li> <li>FAT/SAT and its execution</li> <li>IQ-OQ documentation and its on-site execution</li> </ul>

### Advantages:

Performance:	<ul style="list-style-type: none"> <li>Our Diamond Reaction Chamber® with our specially designed micro channels achieve consistent uniform repeatable results.</li> <li>Product yield up to 99 percent</li> <li>Greater wear resistance</li> </ul>
Easy-to-clean:	<ul style="list-style-type: none"> <li>Systems low dead volume allows cleaning in a matter of minutes.</li> <li>Multiple samples may be processed in a short time span.</li> </ul>
Economy:	<ul style="list-style-type: none"> <li>Save on raw material costs due to low dead volume</li> <li>Process samples in minutes not hours</li> <li>Low maintenance cost due to superior system design</li> <li>Minimal seals and connections</li> </ul>