

**Simplicity at your
fingertips!**



ShearJet™ HL60

ELECTRIC HYDRAULIC HIGH SHEAR HOMOGENIZER

FOR SMALL VOLUMES STARTING AT 3 ML AND CERTIFIED PROCESSES

ShearJet™ HL60

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:

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|------------------|---|
| 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:

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

Features:

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

Advantages:

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