

LE220R-plus Focused-ultrasonicator

High-performance, Scalable, Automated Sample Preparation

Proprietary Covaris AFA-energetics™ for Standardization of Pre-analytical Sample Preparation:

- Easily integrated with liquid handlers or automation work cells
- AutoFill option allows automatic filling of the water bath without any user intervention
- Certified light curtain to maintain safety standards

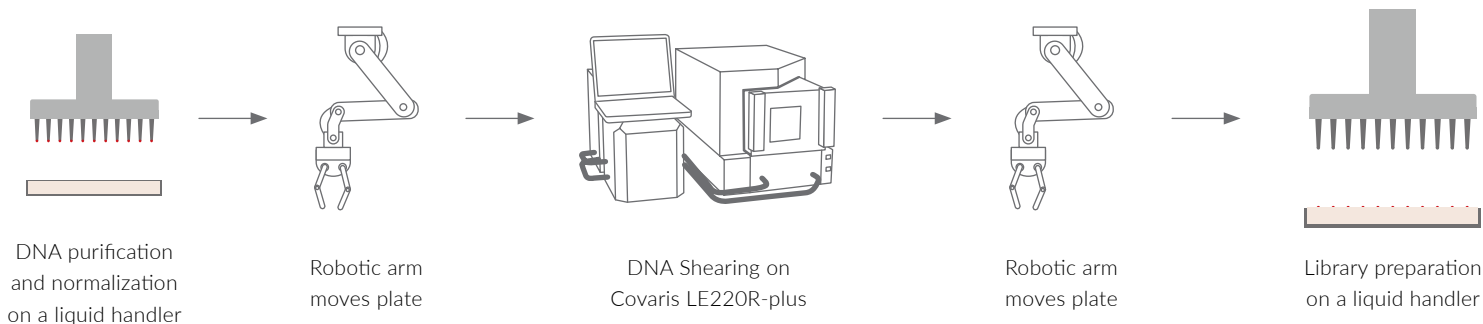


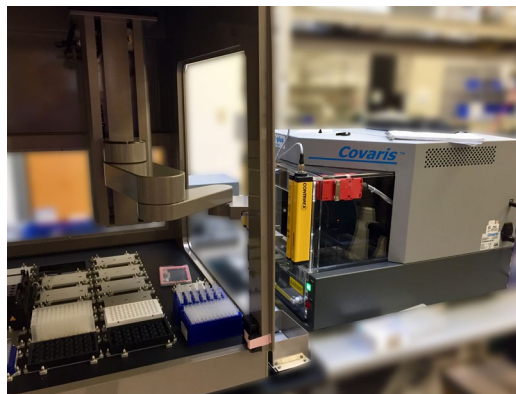
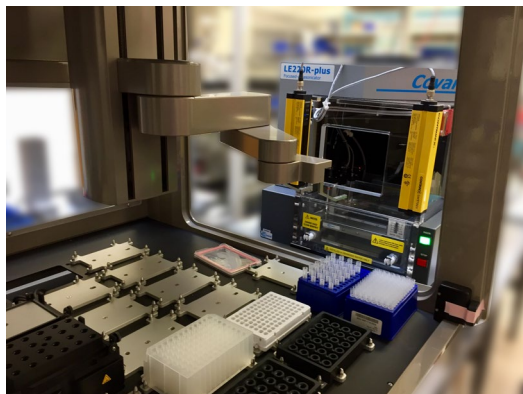
Supported Applications:

- Clinical NGS DNA/RNA Shearing
- Chromatin Shearing
- Total NA/DNA/RNA/Protein Extraction from FFPE
- Cell Lysis
- cfDNA Extraction from Plasma
- DNA Extraction from Dried Blood Spots
- High Molecular Weight DNA Extraction

Features	Benefits
Automatic water level detection	Reduces hands-on time and user variability
User-defined scheduling for system set-up	Maximizes laboratory efficiency
Designed for integration with high-throughput laboratory automation	Accurate, reproducible, and robust sample preparation
Multi-sample capability	Higher productivity, less operator intervention

Fully Automated NGS Library Preparation Workflow



Integration with Liquid Handlers (*Images below show LE220R-plus integrated with Dynamic Devices Lynx*)

Product Specifications

Part Number	500578
Treatment Power	2.5 to 500 Watts Peak Incident Power 0.1 to 250 Watts Average Incident Power
Dimensions	61 cm (width) x 81 cm (depth) x 48 cm (height)
Power Requirements	100 to 240 VAC 500 VA, 50 to 60Hz
Operating Environment	Ambient temperature: 19° C to 25° C (66° F to 77° C) Relative humidity: 30% to 70%
Operating Temperature	5 to 40 °C
Regulatory Labeling	CE, ETL Mark (for Product Safety), WEEE
Operating System	Includes: Notebook computer interface via USB with Microsoft Windows and Covaris SonoLab™ Operating Software installed with SonoLab 8
Chiller	System includes chiller and WCS 2.0
Sample Volumes	<ul style="list-style-type: none"> • NGS (dependent on protocol): 5 to 320 µl • truXTRAC® FFPE: LCM, 5 to 20 micron slides, up to 80 micron slices, and 1.2 mm cores • truXTRAC cfDNA: Up to 4 ml plasma • truXTRAC DBS: Up to seven 3 mm punches • truCHIP®: Up to 1 mL for mammalian cells • truCOLLECT™: Up to 35 µL fresh whole blood
Recommended Batch Size	8 tubes simultaneously processed; 96 tube capacity
Covaris-qualified Consumables	<ul style="list-style-type: none"> • Individual microTUBEs; 8 microTUBE strips (rack required) • 96 microTUBE plate • 8 AFA-TUBE TPX Strip • 96 AFA-TUBE TPX plate (with RFID) • miniTUBEs • milliTUBEs
Integration with Lab Automation	Yes: Recommended use in conjunction with 96 AFA-TUBE TPX plate