

Ultrasonic Food Processing Technology Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Ultrasonic Food Processing Technology Market was valued at USD 315 million in 2024 and is estimated to grow at a CAGR of 8% to reach USD 664 million by 2034.

The growing popularity of non-thermal processing methods is reshaping food manufacturing trends, as consumers prioritize food safety, nutrition, and shelf life without compromising on quality. Technologies such as ultrasonic processing, high-pressure treatment, and pulsed electric fields are becoming more widely accepted due to their ability to maintain sensory and nutritional properties while meeting regulatory safety standards. With rising consumer concerns over contamination and the demand for traceable and hygienically processed food, manufacturers are investing in innovative processing systems that meet strict global safety guidelines. In response to evolving export standards and consumer expectations, producers are increasingly turning to ultrasonic technology to improve productivity and ensure compliance. These systems help meet the industry's growing need for clean-label products, enhanced processing efficiency, and sustainable production practices. The integration of ultrasonic equipment into broader food tech ecosystems is also streamlining operations across production lines, especially in regions with advanced food manufacturing infrastructure.

The power ultrasound systems operating within the 20–100 kHz range segment generated USD 191.9 million in 2024. These systems play a critical role in boosting mass transfer operations such as emulsification, homogenization, and extraction. By leveraging cavitation effects, ultrasonic systems facilitate the release of valuable bioactive compounds, nutrients, and flavors, making them highly effective in processing plant- and animal-based materials. Their benefits are especially notable in producing

high-yield emulsified products, where consistency and quality are key.

The food processing and preservation segment held 35% share in 2024. This segment is expanding rapidly as manufacturers prioritize techniques that preserve nutritional integrity and maintain desirable sensory attributes in food products. As consumer demand shifts toward minimally processed, functionally rich foods, methods like ultrasonic treatment, freeze-drying, and vacuum packaging are gaining ground. These techniques are instrumental in extending shelf life while retaining the functional value of ingredients.

U.S. Ultrasonic Food Processing Technology Market held 75.6% share and generated USD 83.8 million in 2024. This leadership position stems from a strong emphasis on food innovation, digital transformation, and compliance with food safety mandates. As North America continues to embrace automation and digitized tracking solutions, demand for advanced processing technologies is rising across both large-scale and mid-tier food production facilities. The region's focus on clean-label product development and longer shelf stability is pushing manufacturers toward non-thermal methods for enhanced competitiveness.

Key players operating in the Global Ultrasonic Food Processing Technology Market include Dukane, Telsonic, FoodTools, Cavitus, Emerson Electric, Herrmann Ultrasonics, Weber Ultrasonics, Hielscher Ultrasonics, AERZEN, Marchant Schmidt, Ultrasonic Power, MS Ultrasonic Technology Group, Innovative Ultrasonics, RINCO ULTRASONICS, Sonimat, and Sonics & Materials. To strengthen their position in the Ultrasonic Food Processing Technology Market, leading companies are focusing on developing application-specific ultrasonic systems tailored to different food product categories. Many are expanding global distribution networks, net manufacturers and strategic partnerships with OEMs and food manufacturers and investing in automation integration for seamless plant operations. Emphasis is also placed on advancing cavitation control and power efficiency to maximize yield and consistency.

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