

Compounding Equipment



SCIENCE. CRAFTSMANSHIP. PASSION.

At Elba Labs, we specialize in providing high-quality emulsion and suspension solutions for pharmaceutical, cosmetic and personal care products. When you need emulsions, suspensions, creams, gels or ointments across varying viscosities, we will provide you with the consistent formulations you need, all while reducing your time and costs for product development.

Our processing vessels provide companies with the advanced solutions and necessary tools for high-quality, efficient and hygienic manufacturing processes. With Elba Labs, you can rest assured that you have the scalability, precision and compliance that are critical for safety and reliability in your industry.

Advanced Production and Fulfillment

Custom Solutions

At Elba Labs, we offer precise compounding of a wide range of product types with varying viscosities. Our advanced systems are designed for small-batch production and scale-up, offering high-shear mixing capabilities to ensure uniform consistency and air-free formulations. The result is high-quality, homogenous batches with reliable dosing — ideal for pharmaceutical, healthcare, cosmetic and personal care applications.

High Shear Mixing and Homogenization

Preventing air incorporation during production is essential for high-quality creams, ointments and gels. Our solutions provide you with reproducible results critical for validation and regulatory submissions while facilitating deaeration and enhancing texture, stability and shelf life. With Elba Labs, you will obtain precise control of shear forces while ensuring fine, stable emulsions and uniform product quality.

Flexible Batch Sizes

You can rely on Elba Labs for manufacturing and packaging of emulsions, suspensions, creams and gels for over-the-counter pharmaceutical, cosmetic and health care products in a variety of sizes. Our flexible solutions accommodate a wide range of production needs, from research and development and pilot production to large-scale production runs.

Key Functions and Features

At Elba Labs, our integrated production equipment merges multiple processing steps — mixing, homogenizing, cooling and deaerating — into a single unit, reducing processing time, minimizing labor costs and improving overall productivity for your company.



Our scalable batch processing replicates full-scale production, enabling efficient clinical trial or pilot batch manufacturing. Bottom and side scrapers ensure complete material movement and uniformity, particularly useful for processing high-viscosity formulations. Versatile enough to handle a wide array of applications, Elba Labs' machinery is easy to clean, enhances efficiency in processing, minimizes waste and saves energy, reducing operational and maintenance costs.

Quality Control and Compliance

Our packaging services are designed to minimize contamination, provide tamper-evident seals and comply with industry-specific guidelines such as Good Manufacturing Practices (GMP), ensuring the safety and integrity of your products.

Why Choose Elba Labs for Your Emulsion and Suspension Needs?

Experience and Expertise

With years of industry experience, Elba Labs understands the complexities of emulsion and suspension development and packaging. We provide customized solutions to meet the specific needs of your product and production volume.

Contact Elba Labs Today

At Elba Labs, we are dedicated to providing the highest level of service and packaging quality. If you're looking for reliable manufacturing and filling services, we have the experience, technology and expertise to meet your needs. Let us handle your packaging so you can focus on growing your business.

For more information or to request a quote, visit us at www.elba-labs.com/contact.

SPECIFICATIONS

- 40kg FrymaKoruma Pilot vessel for scale-up
- 400kg ABBE mixer (jacketed, vacuum, side sweep, internal homogenizer)
- 2 x 660kg tanks (jacketed)
- 600kg ribbon powder blending and filling system
- 2 x 2,000kg Cassali™ Mixers (sweep, vacuum, in-line Silverson® homogenizer);
note: can be connected to produce/recirculate for 4,000kg batch
- 1,000 gal (4,000kg) single-wall vessel for liquid manufacturing