

FrymaKoruma Compounding Suite

Precision Formulation With Advanced Small-Batch Technology for Emulsion, Suspensions and Product Development



SCIENCE. CRAFTSMANSHIP. PASSION.

At Elba Labs, we specialize in delivering high-quality emulsion and suspension solutions for the oral care, healthcare, cosmetic and personal care industries. From emulsions and suspensions to creams, gels and ointments of varying viscosities, our expertise ensures consistent, reliable formulations. By streamlining the development process, we help reduce both time to market and overall production costs.

We use state-of-the-art equipment, including the FrymaKoruma 50kg specifically designed for small-batch production, formulation development and process scale-up to meet the demands of the pharmaceutical, healthcare, cosmetic and personal care product industries. Elba Labs offers a seamless, reliable and efficient approach to ensure formulation and process parameters remain consistent, ensuring that your products meet regulatory standards.



Our Small-Batch Production and Formulation Development

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.

The suite offers different capacities to accommodate various production scales, including 50kg, 200kg and 700kg, and provides scale-up for OTC items from R&D to pilot to production.

Integrated Process Efficiency

Experience the efficiency and simplicity of vacuum processing, homogenization, heating/cooling and clean-in-place capabilities in one compact system. With Elba Labs, you can improve lab productivity while reducing costs, time, labor and cleaning requirements.

High Shear Mixing and Homogenization

Obtain precise control of shear forces while ensuring fine, stable emulsions and uniform product quality. At Elba Labs, our solutions provide you with reproducible results critical for validation and regulatory submissions.

Key Functions and Features

Our solutions prevent air incorporation, essential for high-quality creams, ointments and gels. Precision temperature control capabilities protect the quality of heat-sensitive ingredients in OTC and cosmetic formulations. At Elba Labs, our high-shear homogenization process results in the desired textures for eye creams, toothpaste and emulsified ointments, while our scalable batch processing replicates full-scale production, enabling efficient clinical trial or pilot batch manufacturing.

Quality Control and Compliance

At Elba, our all-in-one solution allows us to minimize equipment footprint while maximizing operational flexibility and consistency across batches. By consolidating these critical functions, we reduce the need for multiple pieces of equipment and eliminate time-consuming transitions between steps.

Why Choose Elba Labs for Your Emulsion and Suspension Needs?

Experience and Expertise

With years of industry experience, we understand the complexities of emulsion and suspension development. 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

- Linear scale-up for smooth transition to validation batches
- Shorter batch cycles
- Consistent product quality
- High reproducibility

Vessel Suite

FrymaKoruma V 50 for R&D
FrymaKoruma V 200 for Pilot
FrymaKoruma H 700 for Production

The FrymaKoruma suite is a series of vacuum processing units designed for the OTC and cosmetic industries.

Ideal for producing a wide range of products, including creams, lotions, gels, ointments, eye drops and toothpaste.

The suite offers different capacities to accommodate various production scales, including 50kg, 200kg and 700kg.