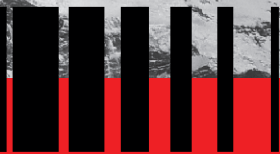


**LIST**<sup>+</sup>



**Kneading - Mixing - Drying**

**Swiss Engineered  
Solutions**  
*for Complex Rheology  
Challenges.*

# From Development to Production

**For over 50 years, LIST has developed a unique know-how in process engineering and is now the world leader in high viscosity solvent free kneading technology. Based in Switzerland LIST is a solution provider to the worlds' largest chemical plants.**

The history of LIST begins in 1966, when Heinz List founds the company LIST AG in Pratteln (Switzerland) and begins to put his vision of "solvent-free work" into practice. For more than 50 years, LIST has specialized in solving process engineering challenges and designing the corresponding kneading reactors. LIST is now the world leader in this market niche.

Since 2016 - when Jakob Müller group committed to the continuation of Heinz List's vision - the kneading reactors and engineering processes have been marketed under the brand LIST Technology AG.

Since 2018 - through the takeover of Heinz Halbich AG, now the company is manufacturing its own designed kneading reactors. Very specialized know-how and skills are required for the production of kneaders and these are now fully integrated as in-house capabilities, which enables us to offer our clients a full service solution, from development to production and commissioning.

## High Viscosity Processing With Better Efficiency, More Safety, Less Impact.

LIST is a pioneer and world leader in the processing of very tough and sticky materials. Our engineers develop innovative production processes, mainly for the polymer, chemical, fiber, petrochemical and food industries, using our specially developed single or double-shaft kneading reactors.

Today, LIST technology is used in the production of everyday goods such as raw materials for baby soothers, diapers, car tires or textile fibers.

In contrast to conventional mixing or stirring processes, the LIST kneading technology requires no or only a few solvents. In addition, it also enables the recovery and transformation of volatile, often hazardous substances from a wide range of distillation residues into valuable side-products.

As a result, LIST Technology processes not only help our clients simplify their process, save energy, material and storage costs. They are also instrumental in reducing environmental pollution.



**Heinz List**  
Founder of the LIST Company.

*His innovations earned Heinz List an induction into the Polymer Processing Hall of Fame at the University of Akron, OH, USA and a place in the gallery of celebrities of the Stuttgart University, Germany*



LIST Headquarters and Test Center in Arisdorf, near Basel, Switzerland

**LIST**   
Kneading - Mixing - Drying



Bay One at our Test-Centre: available for full-stack customization.

## From Process Simplification to Large Scale Intensification: First, We Listen.

When a client is interested in a kneading solution from LIST, a close partnership begins. Because LIST kneading reactors and the corresponding processes are used in the world's largest chemical plants, where our kneaders are often the key technology, the client's full confidence in the technology and process is a decisive factor. If the process did not work, the damage would be enormous.

Therefore, LIST is committed to a perfect understanding of each client's specific challenges, is fully focused on problem solving and has developed a proven, state-of-the-art testing and intensification procedure.

Of course, clients' process engineering problems or wishes are not solved or fulfilled overnight. The solution process takes years, and involves countless discussions between the contractual partners.

## When the Agitator Stops, get in Touch with LIST.

Over the past decades, LIST has acquired enormous know-how through thousands of customer trials, which provide enormous added value in the development and execution of new trials. Thanks to our decades of experience, our specialists are able to successfully design client trials and offer alternatives to mixing and stirring.

Our Test-Centre near Basel, Switzerland offers several test facilities and a large range of equipment solutions available for full-stack customization.

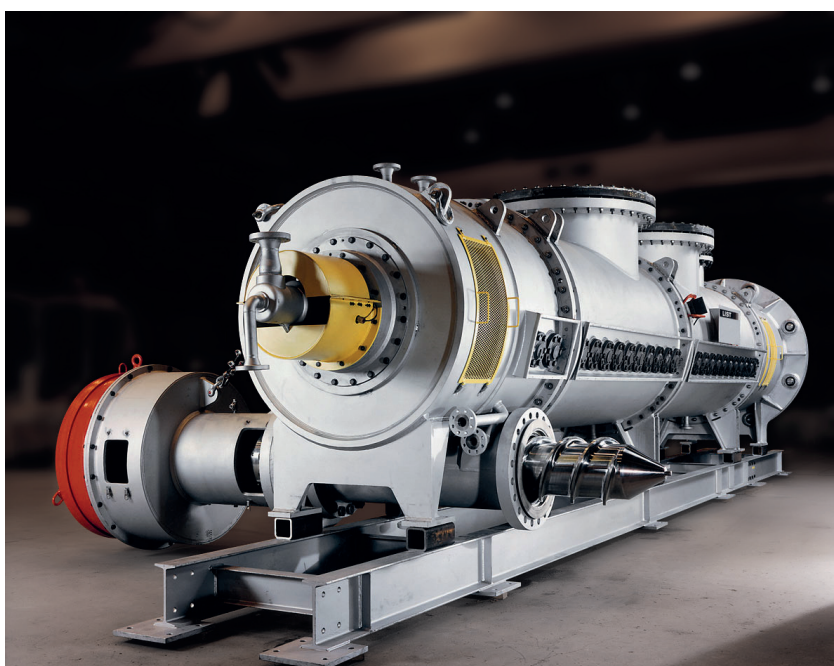
This allows our clients to verify on site that the processing or manufacturing of their product with the kneading reactor works. Thanks to these extensive test facilities, LIST has developed over the past decades from a mere apparatus manufacturer to a specialist for process technology.

## Rent a Lab-Kneader

It is also possible for our clients to rent a Lab-kneader with the appropriate peripheral equipment. This enables our customers to test their processes with our equipment in their own laboratory and to optimize their processes.

Because long periods can elapse from development to industrial use, LIST cannot think in terms of quarters. Our specialists are accustomed to accompanying our customers' new products or processes over many years and to constantly advancing them. In addition, we support partners who are prepared to break new ground by introducing an innovative technology.

The LIST Group is now represented at various locations worldwide. In addition to the USA, China, India and South Korea, we also have employees in Singapore and Germany, which enables us to support our customers directly on site.



**About:** LIST Technology is a Swiss high tech company providing solutions for high viscosity mixing and processing. LIST is a niche company solving very unique, specific and complex rheology challenges with Swiss Engineered solutions, services and equipment. The LIST Competence & Test Center in Arisdorf, Switzerland and the LIST Team of specialists offer Clients the unique possibility of dealing, testing and scaling all features and phases of their specific project, from Process simplification to Large scale industrial intensification.

**Note:** For obvious confidentiality obligations, LIST Technology does not discard the Identity of its clients or details of its projects.

**LIST**



Kneading - Mixing - Drying

**delivered**

A Jakob Müller Company



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**+LISTengineered**