

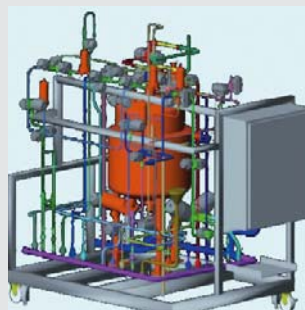
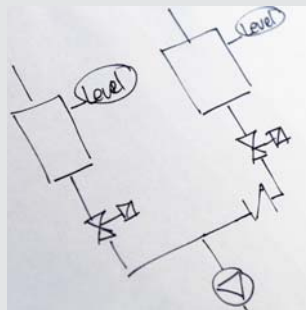
Creating Fluid Solutions

A MEMBER OF NIKKISO

LEWA
pumps + systems

High Purity Systems

Technical and Commercial Certainty



- listen
- create
- manufacture
- service

From concept to product: we take care



Listen, Create, Manufacture and Service

LEWA are process experts and can help solve your application requirements. Our first key is to listen intently to your objectives and goals, which may include converting a batch process to continuous, optimizing an existing system, or designing a new concept. Our team would generate recommendations using the latest technology with process guarantees for you to reach your targets goals. Our process, mechanical, automation and design professionals simplify and optimize all aspects of the project, while creating a quality solution. The team will provide a quality plan, documentation schedule, P&ID's, functional specifications and test plan for you to sign off on.

Manufacturing of High Purity Systems

Manufacturing operates within a clean facility and it can accommodate process systems of all sizes. The segregated workflows allow us to manage the fabrication of assortment process systems while maintaining life cycle approach to material control and manufacturing.

Our clients have come to expect the following:

- Commercial and technical performance certainties
- IQ / OQ documentation and execution
- Full FAT fabrication facility
- All clean fabrication facility
- Segregated polishing and welding operations
- In-house process and automation engineering
- In-house mechanical system design, 3-D modeling, and fabrication

Field-Constructed and Construction Services

Our field mechanical group specializes in field fabrication of new high purity system, on-site retrofits, and suite upgrades.

Whether it's a build-out or a critical plant shut down, our project managers schedule manpower load and coordinate activities with your project to deliver positive outcomes.

We have design and fabrication experience within cGMP processes as well as high purity process utilities WFI, Purified Water, and CIP systems. Our team leverages its process skid capabilities to implement pre-fabrication strategies and reduce project timelines for field projects.

Whether, it is fabricated in the shop, field, or combination of the two, you can expect:

- High-quality service
- Installation
- Design deliverables

The Certainty of our Synchronicity

Pharmacy



The solutions are involved with buffer dilution to WFI systems

Food and Beverage

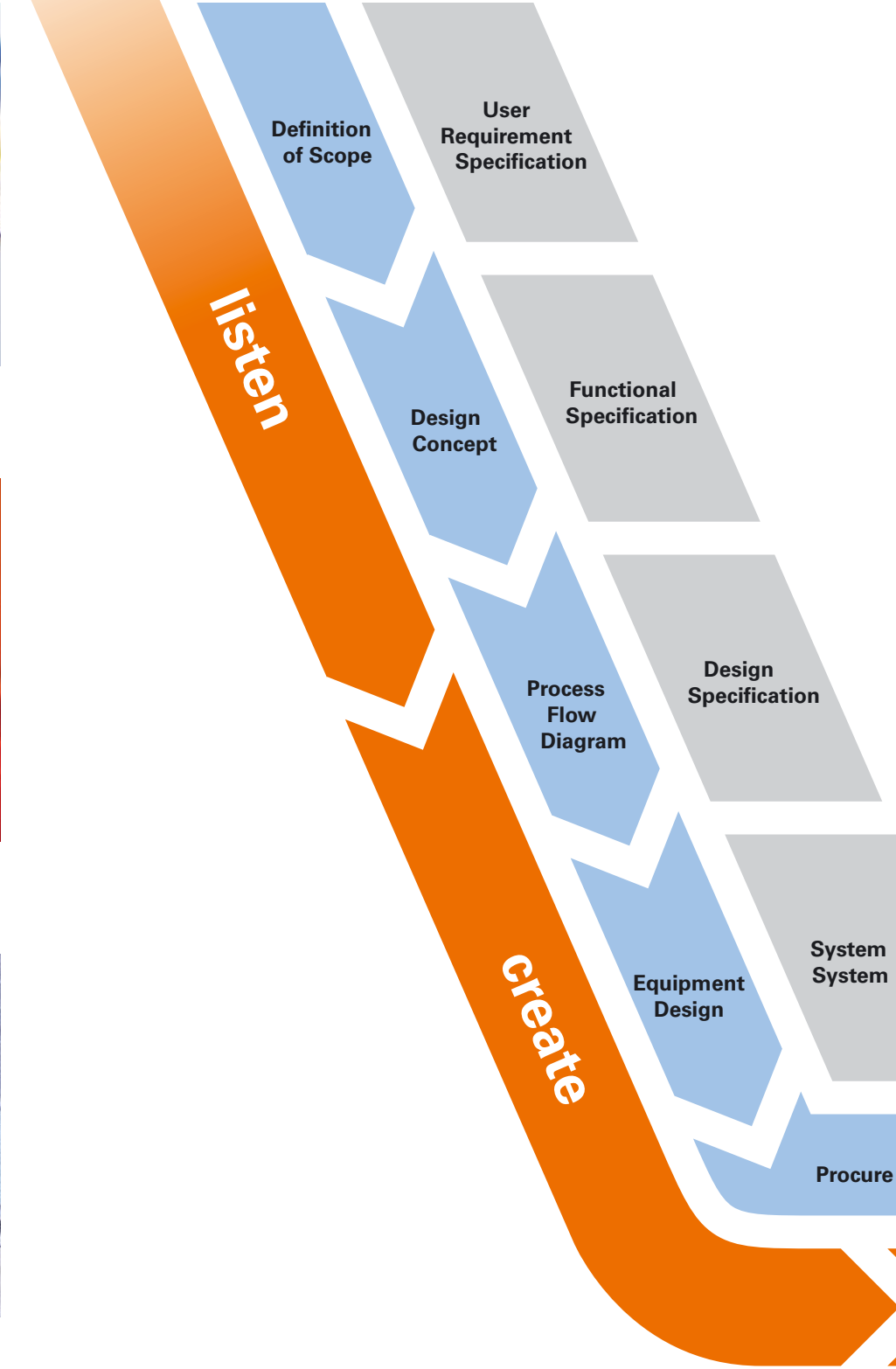


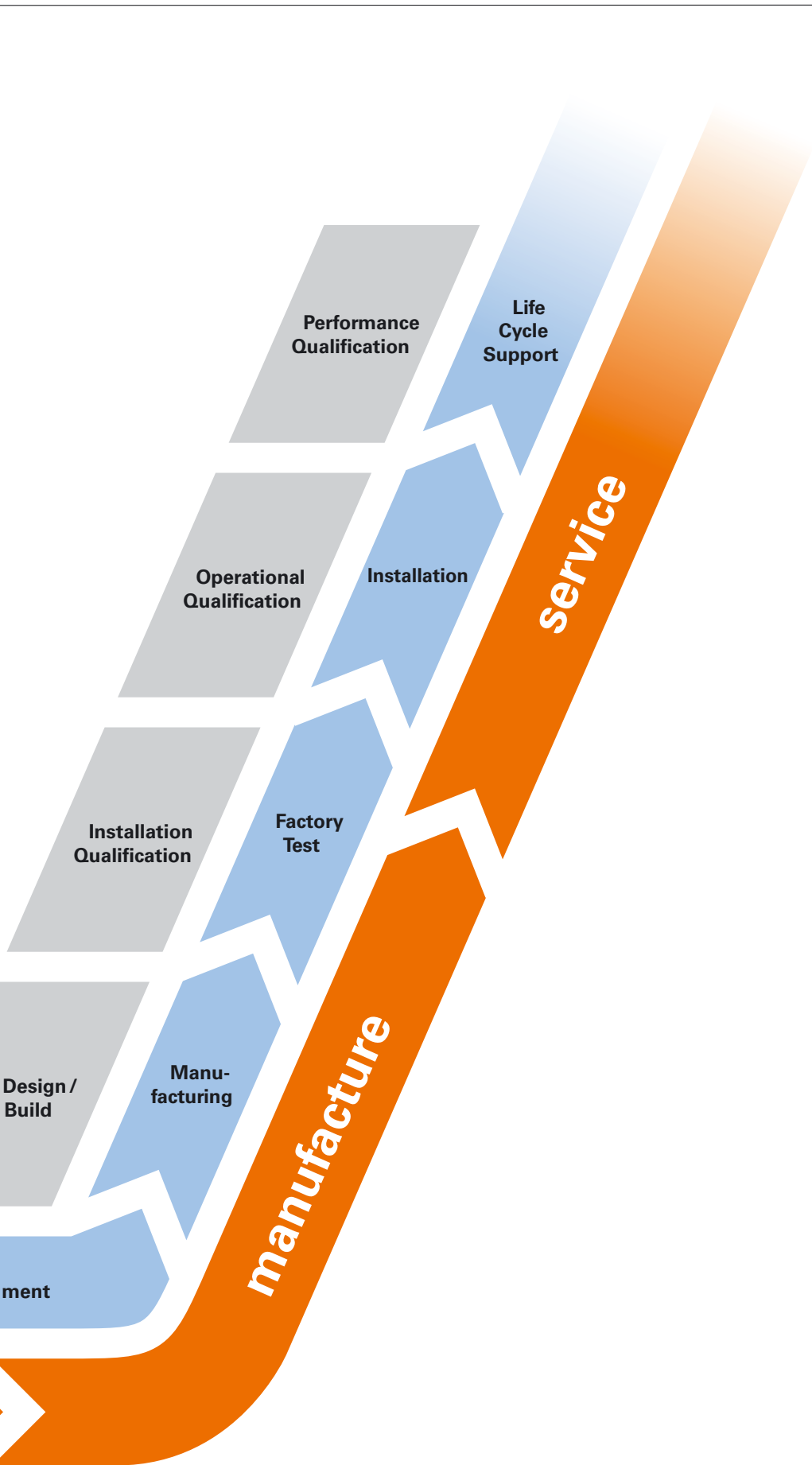
The solutions are involved with stabilization of beverages to production of bread dough

Fine Chemicals



The solutions are involved with spray drying to supercritical separation





Electronics



The solutions are involved with dosing of additives to cleaning with carbon dioxide

Personal Care



The solutions are involved with inline dilution of surfactants to production of softeners

Nutritional Supplements



The solutions are involved with the purification of ingredients to the production of nutraceuticals

For long-lasting operation: service, maintenance, training



With over 10,000 successful applications, LEWA has a very wide range of applications expertise around the world. Your satisfaction is our guarantee! Our goal is to exceed your requirements and expectations in a time frame your business requires.

LEWA offers:

- Factory trained personnel across all product lines
- Evaluation, cost estimates and professional repairs
- Parts service
- Maintenance training programs at our LEWA Service Centers or at your location
- Troubleshooting and telephone support
- Quick Field-Service, regardless of your location
- 24 hour emergency phone support
- Provides pump installation recommendations to improve your process

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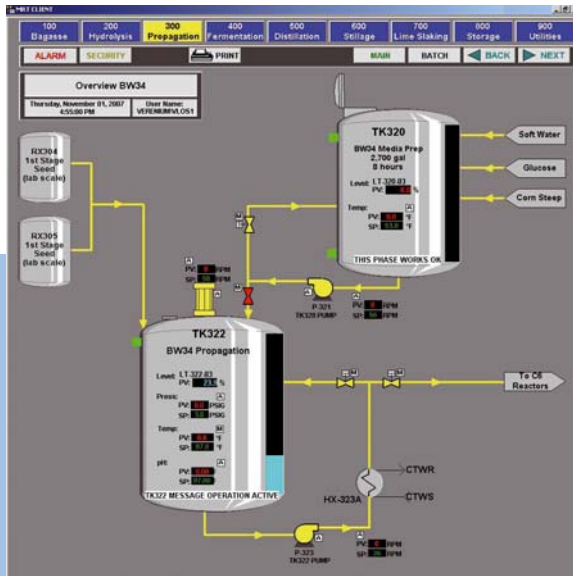
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For your unique needs: Customized solutions from LEWA



Control System Integration

We will work closely with your team to fully understand and specify your requirements. Then we will propose the most appropriate and cost-effective solution with alternatives, be it an expansion, a revised control strategy, or a complete new control system. The team can then implement this solution, regardless of platform size.

From pilot to production customer engineered solutions.

- 100% Custom fabrication
- Design to a client footprint
- FDA, ASME BPE, cGMP compliant
- 100% drainable
- Chromatography application

Total Automation Solutions:

- Front-end engineering
- Conceptual and detailed design
- Software coding
- Panel fabrication/assembly
- Factory testing
- Site delivery
- Installation
- Integration
- Commissioning and validation
- Lifecycle support

Customized integration of MIS control system solutions:

- LIMS
- SCADA
- Batch controls
- Historians
- Trending and reporting
- Links to ERP/MPR