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Creating Fluid Solutions.

Values characterize our actions:

# Appreciation

for our customers and employees

# Integrity

as the foundation and guiding principle of our actions

# Reliability

in everything we do

## Creating Fluid Solutions.

Driven by our commitment, our trendsetting products and innovative technologies have set benchmarks for diaphragm pumps and metering systems for over 60 years. We solve complex tasks from a single source. That ranges from custom pump design, basic and system engineering, global project management, and pretesting to commissioning and maintenance on-site. Our consistent drive always to develop the best solutions for the customer provides you with a competitive advantage and visible added value.

# From family business to global player. LEWA Milestones.

## 1952

### Founding of the company

**Herbert Ott and Rudolf Schestag found LEWA**

The initials stand for LEonberger WAsser-aufbereitung (Leonberg water treatment). The startup phase was difficult. The only company vehicle – a motorcycle used to make the first delivery – soon had to be sold. Some business trips had to be done by hitchhiking.



## 1955

### First Achema participation

**Even the first modest trade show visit was a great success!**

LEWA visited ACHEMA in Frankfurt am Main for the first time – the technical trade show for the process industry – and has presented its innovations there every three years ever since.



## 2004

### G4T

**Largest process diaphragm pump in the world**

LEWA designs and builds the two largest pumps of their kind. They are used in Hammerfest, Norway for CO<sub>2</sub> reinjection in a natural gas field. This project shows how LEWA can meet customer-specific requirements while contributing to environmental protection.



## 2009

### Integration

**LEWA GmbH and NIKKISO Co. Ltd. join forces**

The integration into the Japanese NIKKISO Group extends the product portfolio and expands the regional presence. Both companies strengthen their position on the world market.

**Strategic diversification into "Clean Markets"**

With EcoPrime, LEWA takes the first step towards "Clean Markets", delivering an extremely high-precision system for low-pressure chromatography. It introduces innovative options for the purification process of biomolecules.



## 2015

### The giant

**The largest LEWA chemical injection package**

In 2015, LEWA completed its largest package to date: The LEWA chemical injection package for use on Brazilian floating production storage and offloading unit (FPSO) weighs 715 tons and measures 21.3 x 21 x 11 meters. This ambitious project represents a large challenge to our engineers. The giant has been implemented in more than 7,500 engineering hours. LEWA once again confirmed their one-of-a-kind expertise as the global leader in pump manufacturing and system integrator with this special solution.



## 2018

### Industrial Division

**New management**

Tsunehisu Suita, as CEO, is sharing responsibility for the pump and systems business of the entire LEWA NIKKISO-group with Dr. Martin Fiedler, who is head of the Operations Division, and with Stefan Glasmeyer, who is responsible for sales.



## 1954

### First patent

**The rocker arm pump was registered as the company's first patent**

It was the starting shot for a series of innovations. LEWA matures as an expert in fluids of all kinds.



## 2003

### LEWA ecoflow®

**LEWA presents the innovative metering diaphragm pump**

The M900 pump head with patented diaphragm monitoring is a universal, operationally reliable solution for handling hazardous, environmentally harmful, and high-viscosity fluids.



## 2005

### Acquisition

**DBAG and Quadriga Capital acquire LEWA** Deutsche Beteiligungs AG, along with Quadriga Capital, takes over LEWA GmbH and all its sales companies.



## 2012

### Record project

**Largest order in the company's history** LEWA receives the largest order in the company's history so far, valued at \$40 million USD. 40 customer-specific pump systems were built in the Leonberg headquarters.



## 2016

### Expansion

**Construction of new factory buildings** The construction of the new factory building, including high-bay storage and adjacent offices, will facilitate a transition to continuous-flow manufacturing resulting in increased production capacity.

## Rooted in Leonberg, at home in the world. LEWA – an international group.



Tsunehisa Suita, as CEO, is sharing responsibility for the pump and systems business of the entire LEWA NIKKISO-group with Dr. Martin Fiedler, who is head of the Operations Division, and with Stefan Glasmeyer, who is responsible for sales.

### LEWA company portrait

As a market leader in the segment of metering and process diaphragm pumps, LEWA is outstandingly well-positioned internationally, with 14 subsidiaries and more than 80 sales partners worldwide. Process reliability and high efficiency have always been the typical characteristics of our pumps and systems, with their use being synonymous with economic, safe, long-lasting operation. As an industry innovator, we rely on well-founded engineering knowledge, continually developing our technology and using it as the basis for innovative solutions for a wide variety of applications. Around the globe, more than 1,200 employees work together with our customers in the oil and gas industry, the chemical industry, and the petrochemical industry to develop specific concepts. The requirements of the cosmetic industry, pharmaceuticals and biotechnology, the food and beverage segment, and the needs of energy suppliers are also part of our extensive application expertise. From basic engineering to pretesting to commissioning on-site, we supply it all from a single source.

### Creating Fluid Solutions is our passion

LEWA is an ambitious, creative manufacturer who redefines (technical) boundaries for their customers. We are the experts when it comes to handling critical fluids and in their interaction with different materials. Wherever people are metering, injecting, conveying, mixing, filling, separating, heating, or cooling fluids, we are right in our element. The crucial factor is our deep process understanding. We identify the specific challenges of our customers to offer custom-tailored solutions.

LEWA Headquarters in Leonberg/Germany.



A close-up photograph of water splashing, showing numerous bubbles and droplets against a dark background.

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## Pressure

Processes with the strictest of requirements for quality and operational reliability need the right equipment. LEWA pumps and systems meet a wide variety of requirements.

Here is an example: For difficult operating conditions such as very low suction pressure, our M900 pump heads are just the thing. Thanks to their unique design, they are also suitable for use in vacuum extraction.

A close-up photograph of water splashing, showing numerous bubbles and droplets against a dark background.

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## High-pressure

Process pumps from LEWA are the benchmark for reliable, robust, energy-efficient pumps in high-pressure process technology. Pressures up to 3,500 bar are no problem for our plunger pumps. If hermetic tightness is needed, metal diaphragms can be used at pressures up to 1,200 bar.

If not only hermetic tightness but also a small pump footprint is required, we are the only pump manufacturer in the world that offers a PTFE diaphragm that saves space while handling pressures up to 1,000 bar.

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The LEWA diaphragm metering pumps and packed plunger metering pumps, which are included in the oscillating positive-displacement pumps, offer the maximum metering accuracy. They are the benchmark for safety, reliability and efficiency, especially when the conveyance of critical fluids is in demand.

To broaden the solution spectrum for our customers even more, we also offer complementary pump technologies from well-known partners like Pomac. Our product portfolio also comprises the pumps of our mother company NIKKISO of course. Thus, among other things LEWA markets rotating positive-displacement pumps and centrifugal pumps for a wide variety of applications.

For fluids of any kind.  
Our pumps at a glance.



**LEWA micro-metering pumps 1**

Diaphragm metering pumps for very small flow rates. An especially economic solution when fluid components must be metered proportionally to a variable reference value.

**Performance data**

Flow rate	1.0 ml/h – 55 l/h
Discharge pressure	up to 560 bar

**LEWA ecosmart® 2**

The compact, multiplex-capable metering diaphragm pump at a smart price. The proverbial LEWA quality is still included: All ecosmart pumps are equipped with the patented DPS diaphragm protection system. Also available from our webshop.

**Performance data**

Flow rate	up to 300 l/h per pump head
Discharge pressure	up to 80 bar

**LEWA ecosdos® 3**

This metering diaphragm pump is absolutely reliable, rich in options, and economic, in particular when hydraulically actuated diaphragms are not allowed. It was designed for applications in the low-pressure range. Its multiplex capability opens additional areas of application, as for example low pulsation metering, recipe metering and mixing jobs. In hygienic design, the surfaces are specifically adapted for hygienic production requirements.

**Performance data**

Flow rate	0.4 – 1.500 l/h per pump head
Discharge pressure	up to 20 bar

**LEWA ecoflow® 4**

This world-class metering pump offers top reliability and quality for a wide range of applications. We configure the ideal metering diaphragm pump for your application: as a multiplex variant, with diaphragm or packed plunger head, in hygienic design, etc.

**Performance data**

Flow rate	up to 19 m³/h per pump head
Discharge pressure	up to 1,200 bar

**LEWA ecoflow® process diaphragm pumps 5**

The most advanced process diaphragm pump for high-pressure process technology offers maximum safety for production and the environment. The perfect solution for your application requirements can be configured from a wide variety of standardized assemblies. LEWA combines various pump heads and drive units in variable segment design, in series or boxer design.

**Performance data**

Flow rate	up to 19 m³/h per pump head
Discharge pressure	up to 1,200 bar

**LEWA plunger pump 6**

This API 674-compliant high pressure pump in a very compact design is suitable for any industrial sector. It is space and weight saving, also ideal for offshore applications. In particular for large hydraulic power, it represents a robust, and efficient alternative.

**Performance data**

Flow rate	up to 209 m³/h
Discharge pressure	up to 3,500 bar

**LEWA triplex® 7**

The most compact process diaphragm pump in the world for high-pressure processes in all branches of industry. Its space and weight saving monoblock design also makes it suitable for any application with extremely small installation space.

**Performance data**

Flow rate	up to 180 m³/h
Discharge pressure	up to 1,200 bar

## Offshore

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Offshore, extreme environmental conditions prevail, and access for maintenance work is often difficult.

Requirements such as certain paints, resistance to seawater or ship movements are combined with challenging conditions like high operating pressure or demanding fluid characteristics – whether high viscosity, high vapor pressure, poor lubrication activity, flammability, or abrasive solid fractions.

For these applications, LEWA pumps and packages are the preferred choice.

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## Onshore

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On land, too, there are remote regions where oil and gas must be conveyed through areas with extreme climate. Especially in desert regions, there is frequently no infrastructure for the operation of machines.

Solar-powered packages from LEWA permit energy independence when injecting chemicals. That ensures the reliable, low-maintenance metering of raw materials.

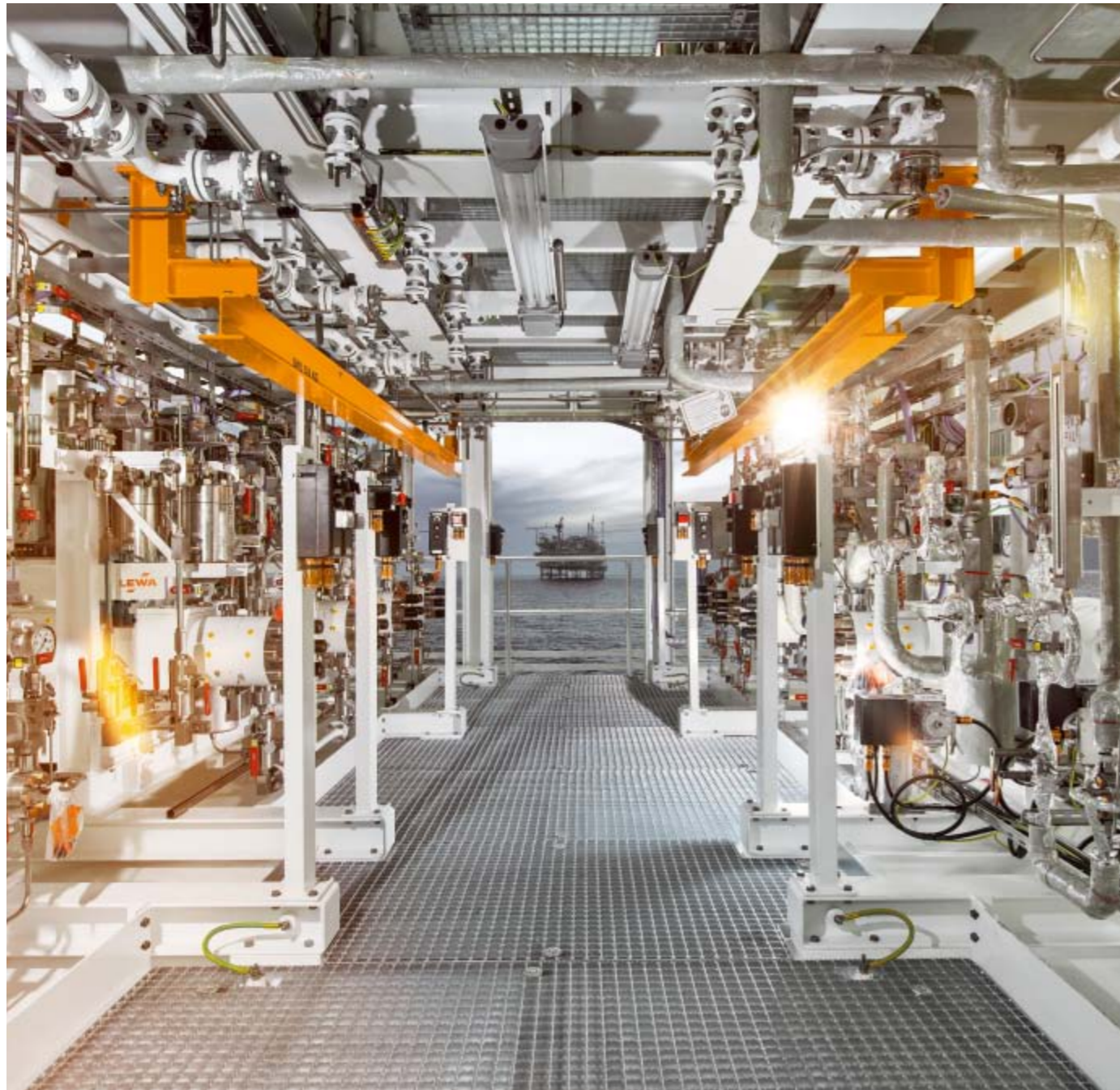
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# Complete solutions from a single source. LEWA packages and systems.

For decades, LEWA has fabricated customer-specific systems, skids, and packages based on intensive prior planning and data recording on-site, including testing and calculation of downstream systems and pressure conditions. Our knowledge of intelligent process management and the instrumentation and control technology it requires guarantee optimum results.



## Chemical Injection Packages

Developed and manufactured by the leading pump manufacturer: Customer-specific packages for chemical injection in the oil and gas industry.

### Performance data

Flow rate	5 ml/h – 180 m <sup>3</sup> /h
Discharge pressure	up to 3,500 bar

## Pump Skids

Ready for operation, individually designed pump units in small-footprint design. For these pump skids we assume the complete selection of the pumps, materials and accessories.

### Performance data

Flow rate	5 ml/h – 180 m <sup>3</sup> /h
Discharge pressure	up to 3,500 bar

## Bellows pulsators

The optimum solution for achieving vibrating or oscillating fluid movements in a vertical container for quicker chemical reactions.

### Performance data

Pulsierendes Volumen	200 cm <sup>3</sup> – 21 l
max. realisierte Säulenhöhe	18 m

## Odorizing systems

LEWA has built odorizing systems for over 40 years, e.g., for natural gas, oxygen, nitrogen and carbon dioxide. In LEWA odorizing systems the appropriate odorant is metered reliably, proportionally and economically.

### Performance data

Flow rate	0 – 40 l/h
Discharge pressure	up to 300 bar

## LEWA ecofoam®

Redundantly designed, absolutely leakproof system for metering various blowing agents in plastic manufacture in combination with extruders.

### Performance data

Flow rate	0.5 – 250 kg/h
Discharge pressure	50 – 500 bar

## Customer-specific production units

Customer-specific batch/continuous system for the production process. Metering, mixing, filling, separating, controlling temperature – we work out the proper process-related flow with you and using this we produce the system that fits your production, right up to the end product.

### Performance data

Flow rate	10 ml/h – 180 m <sup>3</sup> /h
Discharge pressure	up to 3,500 bar

## Customer-specific metering systems

Ready-to-connect metering system in closed loop control with monitoring and plausibility test. Your custom-configured metering system with an optimally adjusted pump for fluid metering in automated processes.

### Performance data

Flow rate	10 ml/h – 180 m <sup>3</sup> /h
Discharge pressure	up to 1,200 bar

## Hot

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Special applications in process technology require the metering of very hot fluids. Up to 150 °C, conventional metering pumps are recommended, even in diaphragm designs. At higher temperatures up to 400 °C, special pump heads in a remote-head design are used.

LEWA pumps also work very reliably even under the highest ambient temperatures.

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## Cold

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For tasks that require the metering of fluids at extremely low temperatures down to –70 °C, we also offer LEWA customers special pump heads with remote-head designs.

Of course, our pumps are also absolutely reliable even under Arctic conditions.

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Continuous progress.  
LEWA is the technology leader in  
diaphragm metering pumps.

Every progress is based on innovation that is  
ahead of its time. Here, you can learn which  
of our technologies are already shaping the  
market today, and enjoy what is still to come.  
Because LEWA continues to build for progress.





#### 1 Pump head technology

LEWA offers the most advanced diaphragm pump head technology in the world. Four series meet the requirements for the most critical process conditions. Maximum operational reliability is our top priority. The highest possible metering accuracy and a hermetically tight working chamber are standard. For high pressures and temperatures, we offer a metal diaphragm that can be used up to 1,200 bar or +200 °C. If space is tight, we are the only manufacturer to offer compact PTFE diaphragms that can handle up to 1,000 bar. Also globally unique is the suction lift capability of our pump heads – thanks to patented DPS (diaphragm protection system) technology.

#### 2 Diaphragm monitoring system

LEWA diaphragm pumps are also used for metering or conveying very hazardous liquids. Leaks caused by diaphragm damage are not permissible. For this reason LEWA already developed and patented a reliable and simple sandwich diaphragm with monitoring functionality in 1968.

#### 3 Diaphragm Protection System DPS

The patented DPS diaphragm protection system ensures that the diaphragm is always moving in the optimum working area. Freedom from leaks and operational reliability are ensured – regardless of external influences, extreme operating conditions, or operator errors.

#### 4 LEWA intellidrive®

Using the highly-dynamic servomotor, you can model the stroke of the pump to the requirements of your system and your process. The stroke adjustment normally required for metering pumps can then be omitted. Infinitely variable stroke times permit the metering pump to handle new application areas with special fluid kinematics. This applies specifically to filling jobs or highly precise chromatography systems in the pharmaceutical industry.

#### 5 LEWA smart control

Based on the systematically collected experience with flow controlled metering systems, LEWA designed a controller that meets all the important requirements on the “brain” of metering systems. The control unit continually compares the flow rates with target values. If there are deviations, corrective measures are initiated. Since the controller saves the characteristic curves of different pumps, deviations can be controlled faster and more precisely without significant overshooting.

## Edible

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The manufacture and processing of edible or high-purity materials and fluids such as are found in the food and life sciences sectors require high process integrity and recipe constancy.

Thanks to hermetic tightness and the best possible cleanability, our products prevent both cross-contamination as well as contamination by wear.

This is ensured by a hygienically appropriate design in accordance with national and international guidelines and standards. EHEDG certificates are available for the relevant products.

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## Toxic

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When environmentally endangering, toxic or flammable fluids and suspensions are to be reliably conveyed or metered in high-pressure processes, there is no alternative to hermetically tight metering pumps, process diaphragm pumps and metering systems from LEWA.

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# Fluent in the language of our customers. Industries and applications.

LEWA offers custom-made solutions and references for almost all industries in which processes require exact metering or reliable conveyance of fluids.

As a researching and producing company, we develop technologies and work out solutions for a wide variety of our customers' applications. Thanks to decades of experience with the challenges of a wide variety of markets, our experts speak the language of our customers fluently.

Our pumps and systems are primarily used in the oil and gas industry, in refineries, and petrochemistry, but also in the manufacture of plastics, detergents, and cleaning agents. Additional application areas can be found in chemistry, the cosmetics industry, in pharmaceutical and biotechnology, in the food and beverage sector, and in power supply.



#### Oil and Gas

LEWA pumps and systems for onshore and offshore applications: designed, and produced from one source and used around the world.



#### Gas odorization

Natural gas, oxygen, and nitrogen are odorless, however they are potentially dangerous. This is why these gases are "odorized" with a strong-smelling substance as possible. For over 40 years LEWA has developed systems for odorization of natural, liquid, and biogases with a strong-smelling substance.



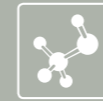
#### Refineries

In separation/distillation, transformation/conversion, and in finishing/refining in the refinery, LEWA pumps and systems meter a wide variety of chemicals safely, reliably, and efficiently.



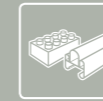
#### Petrochemicals

Petrochemistry generates starting products for the manufacture of plastics, pharmaceuticals, paints, detergents and other products. We offer effective additive metering as well as the conveyance and treatment of washing water and sour water.



#### Chemicals

Hermetically tight LEWA pumps for use up to 1,200 bar are the first choice for the manufacture of chemical intermediate and end products. We plan, develop, and manufacture custom pumps and systems for a wide variety of application areas and processes from the chemical industry.



#### Plastics

We can offer special know-how in all compounding processes in the plastic processing industry. During manufacture, you can convey reactants and meter catalysts with our products.



#### Personal care

Processes with the strictest of quality and hygienic requirements need the right equipment for the task. Our products can be used for conveying and dosing, as well as processing. Batch, continuous, and mixed processes are all possible.



#### Cleaning and detergents

LEWA offers continually operating, recipe controlled systems for the manufacture of household and industrial cleaners in all commercially available surfactant concentrations – from raw product up to end product.



#### Pharma and biotech

Special expertise is required in the production of pharmaceuticals in order to, for example, ensure meeting the legal requirements. We supply systems with in-house engineering, which meet all the requirements relevant to the industry (cGMP, GAMP, 21 CFR, etc.). We can also offer complete documentation, acceptance testing, validation/qualification, installation and commissioning services.



#### Food and beverages

Process integrity, recipe constancy, and product reliability are a basic prerequisite in food technology. Hygienic aspects and cleanability play a central role: The process must remain closed and contamination of the process media must be impossible in every phase of production. LEWA pumps and systems make it possible.



#### Energy utilities

"Power supply" is defined as the processes of power generation, transport, distribution and storage. Our customers are operators, suppliers, plant construction companies, and planners, who we have supported with our products and knowledge for over 60 years.



#### Mining

LEWA solutions are used in explosives manufacturing, ore extraction and metal and mineral recovery to waste water treatment and final product finishing. We support our customers to save energy and consumables while keeping high operational safety and low cost of ownership.



#### Other industries

As a specialist in fluid handling, we of course also have experience in areas that lie out of our main markets. That includes building materials, paints and lacquers, mining, metal or paper manufacturing, for example. Ask us about it!

## Global

LEWA is globally active as a system integrator and packager. The LEWA Group acts together in a strong network, supported by appropriate processes, procedures, and systems.

From engineering to technical consulting and commissioning on-site, more than 1,200 experts around the world make the successful implementation of international projects possible.

## Local

We are there for you wherever you are. With subsidiaries and representatives in over 80 countries, we are next door anywhere – from Australia to Venezuela. We provide support throughout the product lifecycle, ensuring rapid availability of spare parts and service.

## For the entire life cycle. LEWA services.

**Our long-lived, low-maintenance products are designed specifically to your needs. With a mature service offering adapted to your individual requirements, we also support you throughout the life cycle of the products.**

### Technical consulting

We perform fluid evaluations, calculate and evaluate your entire system, and if necessary, create acoustic simulations of complex systems. Especially with oscillating positive-displacement pumps, interactions with connected pipelines and system parts must be taken into consideration.

### Global project management

The success of any project depends on many factors. Dates and processes must be coordinated and quality must be controlled. We can coordinate the complex interplay of customers, engineers, production and operators for you. For the entire duration of your plans, you have a single contact. He or she plans and controls your project, from planning and construction to commissioning the system and training your people.

### Engineering

With decades of experience and the latest procedures and technologies, we can create a solution for any requirement. Together with you, we develop skids, packages, or systems. Of course, our designs also meet the requirements of national and international standards and directives. The entire process takes place in house.

### Global commissioning

You benefit from optimum processes and machine performance. Right from the start. Because our service technicians work to ensure proper commissioning of the system. That means we not only reduce the commissioning time for systems, but also permit production to start earlier. Immediately after commissioning, our service technician will inform you of the configured system parameters and train users.

### Service and maintenance

Regular preventive maintenance by our service technicians increases operational reliability, lowers operating costs, and extends the lifetime of a pump or system. To ensure that, we offer service contracts adapted to the individual requirements of our customers. Service is carried out with the greatest of care and according to the quality guidelines for new pumps.



Even special services such as the maintenance of machines on oil platforms are part of our services.

We support every phase of the project – from idea to commissioning on-site. We also provide training and service concepts.





Everywhere you are.  
The LEWA network.



## Present

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Taking responsibility starts with your own actions. We have committed to sustainable development of all our products and services. The LEWA eco-seal stands for that commitment. Careful handling of natural resources, honest and forthright treatment of customers, employers, and suppliers, as well as transparency in our activities are important pillars of our philosophy.

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## Future

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We think for the long term. So we value our social responsibility. In the company, we offer our employees a number of continuing education opportunities as well as events for intercultural understanding and knowledge transfer between the employees of our global companies.

But we also look beyond our own backyard. We support talent in research, sports, and culture, cooperating with schools and associations and supporting the needy in the region.

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## Taking Responsibility. That's what we stand for at LEWA.



The LEWA eco-seal: By combining engineering knowledge on the product and system levels, and due to their intensive application knowledge, LEWA can develop customer-specific, energy-saving solutions for a wide range of industrial branches.

### Responsibility for our region

The support of children, youth, and disadvantaged members of our society is a matter close to LEWA's heart. This is why we are involved in numerous social and school projects, around and in Leonberg.

These include our support for the Spitalhof nursery as part of the TECHNOlino Project.\* For the older kids, there is a cooperation project with the Johannes-Kepler High School. This introduces tenth grade girls to the options of engineering careers by means of demanding projects. In addition, we work together with the DAA (Deutsche Angestellten-Akademie Böblingen) and the BSZ Leonberg vocational school to integrate refugees. By offering internships we help provide occupational orientation and prepare for a career or training.

In sports and music, values and standards are communicated which are also relevant in professional life. Characteristics such as tolerance and creativity are promoted in the same way. That is why LEWA

supports the TSV Eltingen club located in Leonberg as well as other sports clubs in the region. LEWA also supports the Jugendmusikschule (music school for youth) in Leonberg. Primary school children can participate in an instrumental work group through the project.

The important thing in all this is the reciprocity of the relationships. That means that LEWA offers the funds and support, but simultaneously improves its social competence by contact with different people. After all, this is the reason that involvement in projects is a fixed part of apprenticeship at LEWA.

### Environmental protection

LEWA sees it as a part of their corporate responsibility to handle resources sustainably and to protect the environment. This is what our pump systems stand for – with hermetic tightness, high efficiency, and energy-saving drive systems. They permit more environmentally friendly processes and energy-efficient production.



\* TECHNOlino was founded by the Südwestmetall Employer's Association and sets up researcher corners in childcare facilities and elementary schools to support playful engagement with natural sciences and technology.

## Responsibility in the team. Work at LEWA.

About 1,200 people around the world work daily for the success, growth, and continuing development of our company. So our responsibility for our employees is a particular priority for us. Our goal is to create a working environment for all employees based on partnership, supporting their engagement for the company.

LEWA employees value flat hierarchies, fast decision pathways, and a lot of freedom in their own working area. Responsible action and the good of our community are top priority. The roots and values of the family company are firmly anchored and give LEWA its resilience. Passionate engagement and disciplined teamwork give us the advantage we need in international business.

We place great value on a variety of continuing education options, investing specifically in individual development. The LEWA Academy offers global learning and qualification solutions that make it possible for our employees to gain experience in their areas and build know-how.

### Education: outstanding at LEWA!

We are always looking for motivated people we can train into highly qualified employees. Therefore, we offer the ideal structural and personal prerequisites, including a commercial training center, the latest in workflows and information technology, and our own training staff and the option of working on social projects. Specifically, we train industrial mechanical technicians, mechatronics technicians, and industrial buyers. We also offer a dual college curriculum in the area of mechanical engineering.



# 80

Representatives worldwide

# 1200

Employees worldwide

# 237

Million Euros turnover

Your local representative:

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